

# BALUCHISTAN (Province of Pakistan)



Monitoring the Situation of Children and Women

**Multiple Indicator Cluster Survey**

**2010**



Government of Balochistan



United Nations Children's Fund



## Map of Balochistan



BALUCHISTAN  
MULTIPLE INDICATOR CLUSTER SURVEY  
2010

Planning and Development (P&D) Department  
Government of Baluchistan

In collaboration with  
**UNICEF**  
(United Nations Children's Fund)

*[November, 2011]*

## Summary Table of Findings

### Multiple Indicator Cluster Surveys (MICS) and Millennium Development Goals (MDG) Indicators, Balochistan, 2010

| Topic                                  | MICS4<br>Indicator<br>Number | MDG<br>Indicator<br>Number                        | Indicator                                       | Value   |              |
|----------------------------------------|------------------------------|---------------------------------------------------|-------------------------------------------------|---------|--------------|
| <b>CHILD MORTALITY</b>                 |                              |                                                   |                                                 |         |              |
| Child mortality                        | 1.1                          | 4.1                                               | Under-five mortality rate                       | 89      | per thousand |
|                                        |                              |                                                   | Under- five mortality rate - male               | 74      | Per thousand |
|                                        |                              |                                                   | Under- five mortality rate - female             | 107     | Per thousand |
|                                        | 1.2                          | 4.2                                               | Infant mortality rate                           | 72      | per thousand |
|                                        |                              |                                                   | Under- five mortality – male                    | 63      | Per thousand |
|                                        |                              |                                                   | Under- five mortality – female                  | 82      | Per thousand |
| <b>NUTRITION</b>                       |                              |                                                   |                                                 |         |              |
| Breastfeeding<br>and infant<br>feeding | 2.4                          |                                                   | Children ever breastfed                         | 94.1    | percent      |
|                                        | 2.6                          |                                                   | Exclusive breastfeeding under 6 months          | 39.7    | percent      |
|                                        | 2.7                          |                                                   | Continued breastfeeding at 1 year               | 85.7    | percent      |
|                                        | 2.8                          |                                                   | Continued breastfeeding at 2 years              | 62.3    | percent      |
|                                        | 2.9                          |                                                   | Predominant breastfeeding under 6 months        | 57.0    | percent      |
|                                        | 2.10                         |                                                   | Duration of breastfeeding                       | 23.9    | Months       |
|                                        | 2.11                         |                                                   | Bottle feeding                                  | 36.0    | percent      |
|                                        | 2.12                         |                                                   | Introduction of solid, semi-solid or soft foods | 37.7    | percent      |
|                                        | 2.13                         |                                                   | Minimum meal frequency                          | 20.3    | percent      |
|                                        | 2.14                         |                                                   | Age-appropriate breastfeeding                   | 44.3    | percent      |
| 2.15                                   |                              | Milk feeding frequency for non-breastfed children | 59.8                                            | percent |              |
| Salt iodization                        | 2.16                         |                                                   | Iodized salt consumption                        | 10.2    | Percent      |

| Topic                       | MICS4<br>Indicator<br>Number | MDG<br>Indicator<br>Number | Indicator                                                           | Value |         |
|-----------------------------|------------------------------|----------------------------|---------------------------------------------------------------------|-------|---------|
| <b>CHILD HEALTH</b>         |                              |                            |                                                                     |       |         |
| Vaccinations                | 3.1                          |                            | Tuberculosis immunization coverage                                  | 34.5  | percent |
|                             | 3.2                          |                            | Polio immunization coverage                                         | 46.1  | percent |
|                             | 3.3                          |                            | Immunization coverage for diphtheria, pertussis and tetanus (DPT)   | 12.2  | percent |
|                             | 3.4                          | 4.3                        | Measles immunization coverage                                       | 22.9  | percent |
|                             | 3.5                          |                            | Hepatitis B immunization coverage                                   | 6.7   | percent |
| Tetanus toxoid              | 3.7                          |                            | Neonatal tetanus protection                                         | 17.4  | percent |
| Care of illness             | 3.8                          |                            | Oral rehydration therapy with continued feeding                     | 55.7  | percent |
|                             | 3.9                          |                            | Care seeking for suspected pneumonia                                | 54.9  | percent |
|                             | 3.10                         |                            | Antibiotic treatment of suspected pneumonia                         | 37.3  | percent |
| Solid fuel use              | 3.11                         |                            | Solid fuels                                                         | 72.1  | percent |
| Malaria                     | 3.12                         |                            | Household availability of insecticide-treated nets (ITNs)           | 2.9   | percent |
|                             | 3.14                         |                            | Children under age 5 sleeping under any mosquito net                | 1.5   | percent |
|                             | 3.15                         | 6.7                        | Children under age 5 sleeping under insecticide-treated nets (ITNs) | 0.6   | percent |
|                             | 3.16                         |                            | Malaria diagnostics usage                                           | 25.8  | Percent |
|                             | 3.17                         |                            | Antimalarial treatment of children under 5 the same or next day     | 24.1  | percent |
|                             | 3.18                         | 6.8                        | Antimalarial treatment of children under age 5                      | 33.5  | percent |
|                             | 3.19                         |                            | Pregnant women sleeping under insecticide-treated nets (ITNs)       | 0.9   | percent |
|                             | 3.20                         |                            | Intermittent preventive treatment for malaria                       | 3.1   | percent |
| <b>WATER AND SANITATION</b> |                              |                            |                                                                     |       |         |
| Water and sanitation        | 4.1                          | 7.8                        | Use of improved drinking water sources                              | 73.7  | percent |
|                             | 4.2                          |                            | Water treatment                                                     | 3.5   | percent |
|                             | 4.3                          | 7.9                        | Use of improved sanitation facilities                               | 61.4  | percent |
|                             | 4.4                          |                            | Safe disposal of child's faeces                                     | 22.7  | percent |
|                             | 4.5                          |                            | Place for hand washing                                              | 63.8  | Percent |
|                             | 4.6                          |                            | Availability of soap                                                | 75.3  | Percent |

| Topic                            | MICS4<br>Indicator<br>Number | MDG<br>Indicator<br>Number | Indicator                               | Value |         |
|----------------------------------|------------------------------|----------------------------|-----------------------------------------|-------|---------|
| <b>REPRODUCTIVE HEALTH</b>       |                              |                            |                                         |       |         |
| Contraception<br>and unmet needs | 5.2                          |                            | Early childbearing                      | 11.0  | percent |
|                                  | 5.3                          | 5.3                        | Contraceptive prevalence rate           | 14.7  | Percent |
|                                  |                              | 5.5                        | Antenatal care coverage                 |       |         |
|                                  | 5.5a                         |                            | At least once by skilled personnel      | 39.1  | percent |
|                                  | 5.5b                         |                            | At least four times by any provider     | 11.2  | percent |
|                                  | 5.6                          |                            | Content of antenatal care               | 20.2  | percent |
|                                  | 5.7                          | 5.2                        | Skilled attendant at delivery           | 28.9  | percent |
|                                  | 5.8                          |                            | Institutional deliveries                | 24.2  | percent |
| <b>CHILD DEVELOPMENT</b>         |                              |                            |                                         |       |         |
| Child<br>development             | 6.1                          |                            | Support for learning                    | 37.9  | percent |
|                                  | 6.2                          |                            | Father's support for learning           | 60.7  | percent |
|                                  | 6.3                          |                            | Learning materials: children's books    | 2.1   | percent |
|                                  | 6.4                          |                            | Learning materials: playthings          | 46.7  | percent |
|                                  | 6.5                          |                            | Inadequate care                         | 32.4  | percent |
|                                  | 6.6                          |                            | Early child development index           | 60.2  | percent |
|                                  | 6.7                          |                            | Attendance to early childhood education | 3.2   | percent |

| <b>Topic</b>                   | <b>MICS4<br/>Indicator<br/>Number</b> | <b>MDG<br/>Indicator<br/>Number</b> | <b>Indicator</b>                                | <b>Value</b> |         |
|--------------------------------|---------------------------------------|-------------------------------------|-------------------------------------------------|--------------|---------|
| <b><i>EDUCATION</i></b>        |                                       |                                     |                                                 |              |         |
| Literacy and<br>education      | 7.1                                   | 2.3                                 | Literacy rate among young women                 | 32.9         | percent |
|                                | 7.2                                   |                                     | School readiness                                | 80.1         | percent |
|                                | 7.3                                   |                                     | Net intake rate in primary education            | 19.8         | percent |
|                                | 7.4                                   | 2.1                                 | Primary school net attendance rate (adjusted)   | 44.1         | percent |
|                                | 7.5                                   |                                     | Secondary school net attendance rate (adjusted) | 27.8         | percent |
|                                | 7.6                                   | 2.2                                 | Children reaching last grade of primary         | 99.1         | percent |
|                                | 7.7                                   |                                     | Primary completion rate                         | 56.0         | percent |
|                                | 7.8                                   |                                     | Transition rate to secondary school             | 91.1         | percent |
|                                | 7.9                                   |                                     | Gender parity index (primary school)            | 0.83         | ratio   |
|                                | 7.10                                  |                                     | Gender parity index (secondary school)          | 0.6          | ratio   |
| <b><i>CHILD PROTECTION</i></b> |                                       |                                     |                                                 |              |         |
| Birth registration             | 8.1                                   |                                     | Birth registration                              | 22.9         | percent |
| Child labour                   | 8.2                                   |                                     | Child labour                                    | 17.3         | percent |
|                                | 8.3                                   |                                     | School attendance among child labourers         | 46.8         | percent |
|                                | 8.4                                   |                                     | Child labour among students                     | 18.0         | percent |
| Early marriage                 | 8.6                                   |                                     | Marriage before age 15                          | 6.7          | percent |
|                                | 8.7                                   |                                     | Marriage before age 18                          | 34.6         | percent |
|                                | 8.8                                   |                                     | Young women age 15-19 currently married         | 6.9          | percent |
| Domestic<br>violence           | 8.14                                  |                                     | Attitudes towards domestic violence             | 61.5         | percent |

| <b>Topic</b>                                                                   | <b>MICS4<br/>Indicator<br/>Number</b> | <b>MDG<br/>Indicator<br/>Number</b> | <b>Indicator</b>                                     | <b>Value</b> |         |
|--------------------------------------------------------------------------------|---------------------------------------|-------------------------------------|------------------------------------------------------|--------------|---------|
| <b><i>HIV/AIDS, SEXUAL BEHAVIOUR, AND ORPHANED AND VULNERABLE CHILDREN</i></b> |                                       |                                     |                                                      |              |         |
| HIV/AIDS<br>Knowledge and<br>attitudes                                         | 9.3                                   |                                     | Knowledge of mother- to-child transmission of HIV    | 4.1          | percent |
|                                                                                | 9.4                                   |                                     | Accepting attitude towards people with HIV           | 18.9         | percent |
| Orphaned<br>children                                                           | 9.17                                  |                                     | Children not living with their biological parents    | 1.0          | percent |
|                                                                                | 9.18                                  |                                     | Prevalence of children with at least one parent dead | 3.5          | percent |



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## List of Abbreviations

|                  |                                               |
|------------------|-----------------------------------------------|
| AIDS             | Acquired Immune Deficiency Syndrome           |
| AJK              | Azad Jammu and Kashmir                        |
| ANC              | Ante Natal care                               |
| BCG              | Bacillus Calmette-Guérin                      |
| CD               | Child Development                             |
| CH               | Child Health                                  |
| CO               | Carbon Monoxide                               |
| CP               | Child Protection                              |
| CSPro            | Census and Survey Processing System           |
| DPT              | Diphtheria, Pertussis, Tetanus                |
| DQ               | Data Quality                                  |
| EB               | Enumeration Block                             |
| ECDI             | Early Child Development Index                 |
| EPI              | Expanded program on Immunization              |
| FBS              | Federal Bureau of Statistics                  |
| GAVI             | Global Alliance for Vaccines and Immunization |
| GPI              | Gender Parity Index                           |
| HH               | Household                                     |
| HIV              | Human Immunodeficiency Virus                  |
| HL               | Household Listing                             |
| IDD              | Iodine Deficiency Disorders                   |
| IMR              | Infant Mortality Rate                         |
| INGO             | International Non Governmental Organization   |
| IPT              | Intermittent Preventive Treatment             |
| IQ               | Intelligent Quotient                          |
| ITN              | Insecticide treated Net                       |
| IUD              | Intra Uterine Device                          |
| JMP              | Joint Monitoring Programme                    |
| KIO <sub>3</sub> | Potassium Iodate                              |
| LAM              | Lactational Amenorrhea                        |
| LHV              | Lady Health Visitor                           |
| LLN              | Long Lasting Net                              |
| MDGs             | Millennium Development Goals                  |
| MICS             | Multiple Indicator Cluster Survey             |
| MNCH             | Maternal, Neonatal and Child Health           |
| NADRA            | National Database and Registration Authority  |
| NU               | Nutrition                                     |
| ORS              | Oral Rehydration Solutions                    |
| ORT              | Oral Rehydration Therapy                      |
| PCO              | Population Census organization                |
| PPM              | Parts per Million                             |
| PSI              | Population Services International             |
| PSU              | Primary Sampling Unit                         |
| RH               | Reproductive Health                           |
| RHF              | Recommended Home Fluid                        |

## List of Abbreviations

|                 |                                             |
|-----------------|---------------------------------------------|
| NADRA           | National Database Registration Authority    |
| SO <sub>2</sub> | Sulphur Dioxide                             |
| SP              | Sulphadoxine Pyrimethamine                  |
| SPSS            | Statistical Package for the Social Sciences |
| SSU             | Secondary Sampling Unit                     |
| STIs            | Sexually Transmitted Infections             |
| TBA             | Traditional Birth Attendant                 |
| TT              | Tetanus Toxide                              |
| U5MR            | Under 5years Mortality Rate                 |
| UN              | United Nation                               |
| UNAIDS          | United Nation AIDS                          |
| UNDP            | United Nation Development Program           |
| UNICEF          | The United Nations Children's Fund          |
| WFFC            | World Fir for Children                      |
| WHO             | World Health Organization                   |
| WS              | Water Supply                                |

## Foreword

The Balochistan Multiple Indicator Cluster Survey (MICS) 2010 was undertaken to assess the situation of women and children in order to assist the Government of Balochistan for establishing long-term strategic plans for achieving improvements in the health conditions of women and young children who are always at higher risks of morbidity and mortality. The survey provides updated information on the prevalence of child mortality; breastfeeding practices; consumption of iodized salt; vitamin A supplementation for children under 5 years of age; immunization status of children; prevalence of diarrhea and pneumonia among young children and treatment sought; prevalence of malaria, its treatment and use of mosquito nets; health care seeking behavior during and after pregnancy; deliveries assisted by health practitioners; access to improved drinking water sources; water treatment before use; hand washing practices; availability of sanitation facilities; reproductive health of women including family planning practices; child development care; literacy and education level; child labour; early marriages; attitude towards domestic violence and knowledge about HIV and AIDS. The collected information is very vital and must be used by all development partners for designing appropriate strategies to combat health risks currently faced by women and children in Balochistan.

I appreciate the efforts of the Planning and Development Department, Government of Balochistan for taking this initiative and also recognize the technical and financial support of UNICEF and other donors for making this happen.

I acknowledge and appreciate the hard work done by the men and women of Balochistan who contributed as enumerators and collected an enormous wealth of information. We all also feel indebted to the women of Balochistan who volunteered this information and assure them through this publication that all possible efforts will be made to improve their health and the health of their children and their living conditions.

Ali Zaheer Hazara,  
Additional Chief Secretary,  
Planning and Development Department,  
Government of Balochistan)

## Acknowledgement

The Multiple Indicators Cluster Survey 2010 conducted by the Planning and Development Department, Government of Balochistan is a landmark achievement. The survey provides valuable information on a range of social indicators related to the conditions of the women and under 5 children of Balochistan. The survey was undertaken with the technical and financial support of the United Nations Children Fund (UNICEF).

The MICS Secretariat (P&D Department) core staff under the leadership of Mr. Arif Hussain Shah, Chief of Section (Programming/MICS) deserves special appreciation for their outstanding efforts, dedication and professionalism that enabled the P&D Department to complete this gigantic task.

Our special appreciation goes to Mr. Zulfiqar Durrani (SPME Officer, UNICEF Balochistan) who played the key role and remained instrumental in the successful completion of the survey. We are also thankful to other UNICEF colleagues including Ms. Karen Allen (Deputy Representative, UNICEF Pakistan Country Office), Mr. Ehsan Ul Haq (M&E Specialist, UNICEF Pakistan Country Office), Mr. Stefano Savi (Chief Field Office, UNICEF Balochistan), and Dr. Mohammad Younus Mengal (Ex-H&N Specialist UNICEF Balochistan) for their all time available support to the process. We would also like to convey our special gratitude to Ms. Dorothy Klaus (former PME Chief, UNICEF Pakistan) for her leading role in the initial planning and in arranging financial support for MICS Balochistan.

An important feature of MICS Balochistan 2010 is that first time in Pakistan MICS has been conducted under the close guidance and supervision of UNICEF's MICS Global (Head Quarter New York) and Regional (APSSC UNICEF, Bangkok) teams. We are highly indebted to Mr. Attila Hancioglu (Senior Advisor/Global MICS Coordinator), Ms. Ivana Bjelic (Statistics Specialist) and Ms. Rhiannon James (MICS Coordinator, Asia-Pacific) for their enormous support to the whole process. Their in-depth reviews and technical support enabled the P&D Department, GoB to produce a high quality document.

We are highly thankful to AusAid and DFID for their generous financial support (through UNICEF) that provided the flexibility to achieve the goal in the given time period.

We are also thankful to the Federal Bureau of Statistics for providing sample design for the survey and extending their cooperation and technical support throughout the survey.

The technical group comprising representatives/technical persons of the provincial line departments deserves special thanks for their untiring support throughout the survey process. Similarly at the field level the concerned district administrations provided all sort of support to the survey team and ensured successful completion of the field data collection. The Government of Balochistan appreciates and recognizes this support.

The *SoSec* Consulting Services provided technical support to the P&D Department for the implementation of the survey. We are thankful to the research team of *SoSec* Consulting Services for recruiting field staff, training them for data collection, analyzing the data set and producing the report.

The work of the Innovative Development Organization (IDO) as 3<sup>rd</sup> party monitors of the MICS is highly appreciated by the Government of Balochistan.

I assure that the Government of Balochistan would utilize MICS 2010 data to ensure evidence-based decision making for resource allocation, planning and monitoring.

Shahid Pervez  
Chief Economist  
Government of Balochistan

## **Executive Summary**

The Balochistan Multiple Indicator Cluster Survey (MICS) was conducted by the Planning and Development Department, Government of Balochistan in May through September 2010. The main objective of the survey was to provide updated information about the health of young children and their mothers to formulate strategic planning for their improvement in future. A total of 12,378 households were sampled out of which 12,069 were found to be occupied at the time of survey of which 11,612 were successfully interviewed, giving a response rate of 96.2 percent. Questionnaires were completed for 1) households, 2) women aged 15-49 years and 3) mothers or caretakers of under-five children.

### **Infant and under-five mortality**

Infant and under-five mortality were estimated at 72 and 89 per thousand live births respectively. Infant and under-five mortality were higher in rural (IMR 75; and under-five mortality 93) compared with urban areas (IMR 58; and under-five mortality 70). Both mortality indices were higher when mother was uneducated or was in the poorest segment of the society.

### **Breastfeeding and supplementary food**

Forty percent of children aged less than six months were being exclusively breastfed. Girls were more exclusively breastfed than boys. Exclusive breastfeeding was slightly higher in rural areas and among poor families. Predominant breastfeeding among children age 0-5 months was 57 percent.

Thirty-six percent of children ages 0-23 months were fed with bottle with a nipple at the time of survey. The practice was slightly higher among male children, those living in urban areas, whose mothers had higher level of education and those in the richest wealth quintile.

Thirty-eight percent children aged 6-8 months were receiving supplementary food. The proportion of children receiving supplementary food was higher among males compared to females but was almost similar on the basis of rural-urban residence.

### **Salt iodization**

In the interviewed households, salt used for cooking was tested for iodine content using iodine testing solution. Only 10 percent households in Balochistan were using iodized salt. The use of iodized salt was relatively higher among urban and affluent households.

### **Immunization**

Child immunization was not very common in Balochistan. Only 35 percent of children age 12-23 received BCG at birth before their first birthday. Polio-1 was administered to 61 percent children at any time before the survey which receded to 46 percent for Polio-3. DPT-1 was given to 24 percent children dropping to 12 percent for DPT-3. Hepb3 was reported for less than 7 percent children. Twenty-three percent children received measles vaccination at

any time before the survey. Overall, only two percent children age 12-23 months were completely immunized by age 12 months and 4 percent at any time before the survey.

### **Diarrhoea and Oral rehydration treatment**

Twenty-one percent children age less than five years had diarrhoea in two weeks prior to the survey. The incidence of diarrhoea was similar among male and female children. The peak of diarrhoea was noted among children 12-23 months. The prevalence of diarrhoea was highest in Sibi and lowest in Quetta region.

Seventy-one percent of children who had diarrhoea received ORS or government recommended homemade fluids while 29 percent received no treatment at all. Use of ORS was higher in urban (77 percent) compared with rural areas (70 percent) and among children of educated mothers and those in the richest families.

### **Prevalence of pneumonia and treatment**

Nearly 5 percent of children less than five years of age were reported to have had symptoms of pneumonia during the two weeks preceding the survey. Of these children, 55 percent were taken to an appropriate health provider, while 17 percent were taken to traditional practitioners and friends /relatives. Thirty-seven percent children with suspected pneumonia received antibiotics. Educational level of mother, economic status of household and urban residence was strongly correlated with seeking appropriate treatment for pneumonia in a child.

### **Use of solid fuel**

Seventy-two percent households were using solid fuel for cooking and wood was the most common solid fuel used. Sixty-three percent households cooked food in a separate room or in a kitchen and 29 percent elsewhere in the house.

### **Malaria**

Eighteen percent children less than 5 years of age suffered from fever in two weeks before the survey. Nearly 26 percent children having fever were finger or heel pricked for blood test. Among those who had fever, nearly one-quarter were reported to have received anti-malaria drugs on the same or the following day

### **Availability and use of mosquito nets**

Nine percent households had at least one mosquito net of any type. The insecticide treated nets (ITN) and long lasting treated nets (LLTN) were found in 2.9 percent and 2.2 percent households respectively. Only 1.5 percent children less than 5 years of age slept the night prior to the survey under any kind of mosquito net while only 0.6 percent under an ITN/LLTN. In the households owning ITN/LLTN, 22 percent children who slept in the household the night before the survey, were reported to have used ITN/LLTN. Only 3 percent pregnant women slept under any kind of mosquito net while less than one percent under ITN/LLTN. However, 28 percent pregnant women in households with ITNs/LLTNs used them the night before the survey.

### **Hand washing**

In 66 percent households a specific place for hand washing was observed. In households having specific place for hand washing, 64 percent had both water and soap present at the designated place, 15 percent had only water available, and 8 percent had only soap.

### **Improved source of drinking water**

Seventy-four percent of population was using an improved source of drinking water. Use of improved water source was higher in urban compared to rural areas. However, eighty-six percent household members were not using any water-treatment method to make it safer for drinking. Their proportion was highest (95 percent) in Zhob and Makran regions, slightly higher in rural than urban areas (87 vs 84 percent), among households headed by uneducated persons compared to higher educated (88 vs 80 percent), and among poorest compared to the richest (93 vs 79 percent). Though disparities exist yet the proportions of population not using any method of treating water across all divide is very high in Balochistan.

### **Sanitation facilities**

Seventy percent of population was found living in households using improved sanitation facilities, much higher in urban (93 percent) compared to rural areas (63 percent). A significant proportion (23 percent) of population had no sanitation facility and resorting to open fields/bushes for defecation. Faeces of only 23 percent children up to 2 years of age were safely disposed off.

### **Antenatal care**

Thirty-nine percent mothers received antenatal care from a skilled health provider at least once and 11 percent at least 4 times from any provider during their last pregnancy in two years preceding the survey. Those who gave birth two years preceding the survey, 23 percent women's blood sample was taken during antenatal visits, 37 had their blood pressure checked and 28 percent gave a urine specimen.

### **Institutional deliveries and assistance during delivery**

Twenty-four percent mothers delivered their last birth in two years prior to the survey at a public or private health facility while the rest delivered at home. Of all the births, 29 percent, especially those from urban areas, in younger age group and those from richest wealth quintile were assisted by skilled health personnel.

### **Early Child Development Index (ECDI)**

Sixty percent children aged 36-59 months were found to be developmentally on track. Higher ECDI was seen in children attending pre-school (87 percent) compared to 59 percent for those not attending preschool. With reference to four domains of ECDI, 91 percent children were on track in the physical domain, 78 percent in learning domain, 69 percent in social-emotional and 20 percent in literacy numeracy.



## **Birth registration**

Birth registration of 23 percent children was reported, but interviewers could only verify registration of 3 percent children by actually seeing the birth certificate. Majority of mothers or caretakers were unable to show the birth certificate.

## **Child labour**

Seventeen percent children in the age group 5-14 years were involved in child labour. Participation rate in labour activity was highest (26 percent) in Sibi and lowest (10 percent) in Quetta region. It was higher among males compared to females (19 vs 16 percent), in rural compared to urban areas (19 vs 12 percent), in poorest families compared to richest (25 vs 9 percent), and among children of uneducated mothers compared to children of women with higher education (18 vs 4 percent).

## **Early marriage**

Nearly 7 percent girls were married before reaching their 15<sup>th</sup> birthday and 35 percent before 18<sup>th</sup> birthday, while 7 percent in the age group 15-19 years were currently married. Trend of early age marriage of girls is slowly falling. For example, in the current cohort of 15-19 years age girls, only 1.4 percent were married before the 15<sup>th</sup> birthday; while in the age cohort 40-44 years, 9 percent got married before the age of 15 and 41 percent before reaching the age of 18 years.

## **Education**

Eighty percent children attending first grade were in pre-school in the previous year, this proportion was slightly higher among females (82 percent) compared with males (79 percent). Net intake rate in primary education was 20 percent while net primary school attendance adjusted ratio was 44 percent. Net secondary school attendance ratio was 28 percent. Gender Parity Index (GPI) for primary school Net Attendance Ratio (NAR) and that for secondary school attendance adjusted NAR of girls to boys was 0.8 and 0.6 respectively.

## **Knowledge of HIV/AIDS**

Seventeen percent women aged 15-49 years had heard of AIDS. Only 9 percent women had the knowledge that a healthy looking person can have the HIV virus. Twelve percent women confirmed that HIV/AIDS can't be transmitted by ways like mosquito bite while 14 percent were of the opinion that supernatural means or sharing food with HIV infected person can cause infection. Only 5 percent respondents rejected two common misconceptions about HIV transmission. Overall, nearly 11 percent women knew that HIV could be transmitted from mother to child, while 4 percent knew all three ways of mother-to-child transmission.

Seventy-nine percent women accepted that they would care for a family member sick with AIDS while 60 percent stated that they would buy fresh vegetables from an HIV positive

vendor or an HIV positive female teacher should be allowed to teach in the school. Thirty-seven percent women would not want to keep secret the HIV status of a family member. However, accepting attitude on all four indicators comes down to a low level of 19 percent.

# **I I** Introduction

## **1.1 Background**

1. This report is based on the Balochistan Multiple Indicator Cluster Survey (MICS4), conducted in 2010 by the Planning and Development Department of the Government of Balochistan. This is the second MICS conducted in Balochistan; the first was conducted in 2004. The survey provides valuable information on the situation of women and children in Balochistan province of Pakistan. The survey aims to monitor progress towards achievement of the goals and targets set under international agreements, the Millennium Declaration adopted by 191 United Nations member states in September 2000, the Plan of Action adopted by 189 member states at the United Nations Special Session on Children in May 2002 and commitments made at the 1990 World Summit for Children. Pakistan has committed itself to improving conditions of women and children under these agreements and to monitor progress towards this end.

2. The Multiple Indicator Cluster Survey applies a standardized approach used internationally. In Pakistan, the MICS-3 methodology and standardized research instruments were used by the governments of Punjab, Sindh, Khyber Pakhtoon Khwa (formerly known as North West Frontier Province) and Balochistan provinces, but outside the Global UNICEF MICS Program. The MICS-4 approach, an improved version of the MICS-3, has been used for the first time in Balochistan province.

3. The implementation of the MICS4 in Balochistan was contracted to *SoSec* Consulting Services, under an agreement with the UNICEF. The survey was undertaken in close collaboration and guidance of the Planning and Development Department of the Government of Balochistan and UNICEF. The fieldwork was carried out from 17 May till 25 October, 2010. The Federal Bureau of Statistics, Islamabad provided sample design for the survey while the UNICEF provided equipment, and technical and financial support for the survey.

## **1.2 Survey Objectives**

4. The Balochistan MICS 2010 has the following primary objectives:
  - i. Provide information on the situation of children and women and assist the Government of Balochistan in establishing long term plans, and measure progress to report on the MDGs.
  - ii. Identify inter-district and inter-region disparities with respect to selected indicators.
  - iii. Strengthen technical expertise of the Government of Balochistan in the design, implementation, and analysis of MICS and other social sector surveys.
  - iv. Contribute toward the improvement of data monitoring systems in Balochistan province.
  - v. Furnish indicator specific data needed for monitoring the progress towards the Millennium Development Goals, and the goals of A World Fir for Children (WFFC) as a basis for future action.

### **1.3 Indicators**

5. The indicators covered in the survey were adapted from standard list of MICS4 indicators and finalized by the Government of Balochistan through a consultative process involving all development partners. The indicators relate to: mortality of infants and children <5years; nutritional status of children and breastfeeding practices; child health and immunization; water and sanitation facilities; reproductive health and health seeking behavior of women especially during prenatal, natal and postnatal periods; literacy and education; child protection; knowledge about HIV/AIDS; and family planning practices. A list of the indicators along with their values, as obtained from this survey, is given in the Summary Table of Indicators at the beginning of the report.

### **1.4 The report**

6. The report is divided into chapters as outlined in the table of contents. A number of annexes serve as reference and background information to the report. Most of the tables refer to “MICS4 Indicators”. The computation of these indicators is explained in detail in Appendix E. For further referencing, the survey questionnaires are placed at Appendix F.

## 2.1 Sample Design

7. The primary focus of the Balochistan 2010 MICS was to provide estimates of key population and health indicators for the province on overall basis, urban and rural areas and six regions. The sample design was provided by the Federal Bureau of Statistics, Islamabad. A two-stage stratified sample design was used for the survey. At the first stage of sampling, 844 primary sampling units (241 urban and 603 rural) were selected. The clusters in each district of a region were selected with probability proportional to their size. At the second stage, 12 households from each urban PSU and 16 households from each rural PSU were selected using systematic random sampling procedure. However, 3 clusters were excluded from survey due to refusal, noncooperation and security reasons. Only households occupied by Pakistani nationals were included in the sample. A more detailed description of the sample design is placed at Appendix A.

## 2.2 Questionnaires

8. Three sets of questionnaires were used in the survey:
- A household questionnaire was used to collect information on all *de jure* household members, household characteristics and to identify eligible women and individuals for detailed interviews. The household questionnaire included eight modules comprising: Household Listing, Education, Water and Sanitation, Household characteristics' Insecticide treated nets, Child Labor, Hand Washing and Salt Iodization.
  - A woman questionnaire to collect information from all women aged 15-49 years registered in the household questionnaire. The women questionnaire also included eight modules comprising: Woman's Background, Marriage, Child Mortality, Maternal and Newborn Health, Illness Symptoms, Contraception, Attitude toward Domestic Violence and Knowledge about HIV/AIDS
  - A questionnaire for under 5 children, to be administered to mothers or caretakers living in the household, has seven modules, comprising : Birth Registration, Early Childhood Development, Breastfeeding, Care during Illness, Malaria, Immunization, and Anthropometry
9. The questionnaires are based on the MICS-4 model questionnaires, modified to fit the Balochistan social and cultural norms and in line with prevalence of certain diseases like HIV/AIDS. The questionnaires were translated into Urdu and then translated back into English. The questionnaires were then pre-tested in non-sampled areas and modified on the basis of pre-test feedback before application in the survey for data collection from the sample households. The pre-test assisted in modifications to wording and flow of the questions. Copy of the questionnaires is at Appendix F. While administering the questionnaires, field teams also tested the salt used for cooking in the households to determine iodine level in the cooking salt, and measured the height and weight of all children less than 5 years of age (0-59 months).

## 2.3 Training and Fieldwork

10. Before starting the training, questionnaires and instructional material (instructional manual, transparencies, hands on exercises, handouts, and etc) were made available in the Urdu language to the trainee supervisors/ editors/ and interviewers. The training material was developed with assistance from MICS3 manual.

11. A total of 68 interviewers and 21 supervisors participated in the main fieldwork training, conducted for three weeks from 18<sup>th</sup> January, 2010. The trainers included Lead Consultant and data processing supervisor besides some subject specialists such as MNCH specialist. The training included lectures on interviewing techniques, discussion on the questionnaires, and mock interviews among trainees to acquire skills in asking questions. All interviewers were further trained in testing iodine in salt and taking the height and weights of all under-five children. Towards the end of the training, trainees spent two days conducting field interviews in areas not included in the sample. From among the trained pool of staff only those supervisors and interviewers were selected who performed well in the field practice, and participation in class and assessment test.

12. The trainers kept in view the following key points while conducting the training:
- Framework for the survey and indicators was fully described.
  - The whole survey procedure was discussed.
  - General overview of survey instruments was presented including a good description of all modules.
  - The questionnaires were thoroughly discussed module by module.
  - Interviewing techniques were discussed including asking questions exactly as they are worded.
  - Training of fieldworkers to perform salt test for detection of iodine content.
  - About half a day was spent in anthropometry techniques<sup>1</sup>.
  - Practice sessions were conducted in a participatory way.
  - Trainers encouraged the trainees to ask questions for achieving clarity and full understanding.
  - Practice in administration of questions as much as possible e.g. mock interviews.
  - Interviewers were taken to the households in the vicinity of the training venue to ask questions from the real respondents.
  - Homework assignments were given including reading and completing a questionnaire in the neighboring household.
  - A two days pilot study was conducted as the last event of the training
  - Finally a written test was administered to all trainees.
  - Lastly administrative arrangements for the survey were fully discussed.

13. Data collection was done by 16 teams, each comprising three interviewers, one driver, and a supervisor. Height and weight measurement was taken by the interviewers who were assisted by the team supervisors<sup>2</sup>. The fieldwork was started in mid May, 2010 and lasted for five months.

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<sup>1</sup> Global MICS protocols recommend at least three days for anthropometry training.

<sup>2</sup> Global MICS4 protocols recommend that field teams include 1 supervisor, 1 editor, 1 measurer and interviewers.

## 2.4 Data management

14. The processing of the data entry started shortly after the fieldwork commenced. Completed questionnaires were received regularly from the field to *SoSec* office in Islamabad, where these were edited and entered by the data processing staff, specifically trained for this task. A well qualified and experienced Data Analyst supervised the data processing. Other data processing personnel included questionnaire administrator and office editors who ensured that the expected number of questionnaires from each cluster was received and duly edited. Well trained Data Entry Operators worked on two shift basis using double entry system. The concurrent processing of the data was undertaken to advise field teams of problems detected during the data entry. Field check tables were timely generated and, as a result, specific feedback was given to the field teams to improve performance.

15. The data management was based on MICS3 Manual 2005, selected guidelines for undertaking MICS4 survey and technical support provided by UNICEF. CPro version 4.0, duly modified in line with the Balochistan questionnaire, was used for data entry with interactive process using range, skip and consistency checks. Data processing involved the following steps to produce clean and edited data files.

- Entering all questionnaires for a cluster onto a data file
- Production of field check tables
- Checking the structure of the data file
- Entering the data a second time and then verifying the data file
- Backing up the checked and verified data file
- Performing secondary editing on the data file
- Backing up the edited final data file

16. The goal of secondary data processing was to produce analysis data files and to create the MICS4 standard tables, using model syntax and tabulation plans developed by UNICEF. Archiving and distribution of data files will be done after the MICS report is finalized. Secondary data processing involved the following steps:

- Bringing together all cluster data files into one data file
- Exporting the data to the SPSS software
- Recoding some variables to be used in analysis
- Calculating sample weights and adding to data files
- Computing wealth index and adding to data files
- Creating the tables required to analyse the data

17. Finally data was exported from CPro to SPSS 18.0 software tabulation program for construction of analysis files (comprising HH: Household, HL: Household listing, WM: Women and CH: Children); production of tabulations; analysis of sampling errors/confidence intervals; and production of datasets and tabulations for report writing.

## 2.5 Field Problems

18. A number of problems were encountered during the field work. Initially, the sample design was inordinately delayed due to procedural requirements at the Federal Bureau of Statistics. The Federal Bureau of Statistics was not able to provide household listings.

Alternatively, special arrangements were made to prepare household listing which was also a cumbersome exercise because of wide spread geographic area of Balochistan with a thinly spread population across its plains and rugged mountains. As a result, field work was started after three and half months of the main training. Though reorientation of the data collection personnel was organized, it affected the quality of the survey in some areas. The data collection teams also faced hostilities due to law and order situation in a wide spread area of Balochistan. In some areas, data collection was possible after hours of deliberations with the community elders. In some areas, special arrangements were made by the district administration for the security of survey teams. Migration in summer in certain parts of Balochistan also affected the response rates.

19. Data on anthropometric measurement was dropped from the analysis because of poor quality. The main factors that contributed to poor quality of anthropometric measurements included:

- Only half day training on anthropometry was provided to the field staff.
- Teams did not have dedicated measurers for anthropometric measurements.
- The questionnaire contained an error, i.e. a decimal point was not included in the space for where weight measurements were recorded. This resulted in 93% of weights being recorded as rounded numbers.
- Field supervision by senior staff of SoSec and UNICEF remained irregular due to uncertain security situation in the province resulting in restricted movement.



## III Sample Coverage and Characteristics of Households and Respondents

20. This chapter presents basic information on the sample coverage, and socio-economic and demographic characteristics of the household population with a focus on age, sex, region, place of residence and socio-economic conditions of households. Respondents' characteristics include age distribution, education, marital status, motherhood status, and their distribution by wealth quintiles.

### 3.1 Sample Coverage

21. Table HH.1 shows households and individuals response rates for MICS Balochistan 2010. A total of 12,378 households were sampled, 12,069 were found occupied during data collection and 11,612 households were successfully interviewed, giving a response rate of 96.2 per cent.

22. In the surveyed households, 18,958 women 15-49 years were identified as eligible for interview and 17,732 were successfully interviewed, yielding a response rate of 93.5 per cent. In addition, 10,432 children under age five were listed in the household questionnaires while 9,734 children questionnaires were completed giving a response rate of 93.3 per cent. Overall response rates of 90.0 and 89.8 per cent are calculated for the women's and under-5's interviews respectively. Response rates at various levels are slightly low compared to MICS-3 undertaken in 2003 because of deteriorating law and order situation in Balochistan.

23. Response rates were slightly higher in rural compared to urban areas. The lowest response rate was noted for Nasirabad and Quetta regions. Culturally, rural residents are more cooperative and humble in dealing with visitors. Similar trends have been observed in other surveys as well (Balochistan-MICS, 2003; NIPS, 2008; Punjab-MICS, 2008).

|                                | Area  |        | Region |       |       |       |           |        | Total  |
|--------------------------------|-------|--------|--------|-------|-------|-------|-----------|--------|--------|
|                                | Urban | Rural  | Quetta | Kalat | Sibi  | Zhob  | Nasirabad | Makran |        |
| <b>Households Sampled</b>      | 2,873 | 9,505  | 2,448  | 2,973 | 1,818 | 2,330 | 1,608     | 1,201  | 12,378 |
| <b>Households Occupied</b>     | 2,770 | 9,299  | 2,334  | 2,892 | 1,795 | 2,293 | 1,591     | 1,164  | 12,069 |
| <b>Households Interviewed</b>  | 2,626 | 8,986  | 2,220  | 2,780 | 1,724 | 2,256 | 1,505     | 1,127  | 11,612 |
| <b>Household response rate</b> | 94.8  | 96.6   | 95.1   | 96.1  | 96.0  | 98.4  | 94.6      | 96.8   | 96.2   |
| <b>Women Eligible</b>          | 4,632 | 14,326 | 4,186  | 4,058 | 2,614 | 3,657 | 2,741     | 1,702  | 18,958 |
| <b>Women Interviewed</b>       | 4,240 | 13,492 | 3,812  | 3,793 | 2,435 | 3,539 | 2,501     | 1,652  | 17,732 |
| <b>Women response rate</b>     | 91.5  | 94.2   | 91.1   | 93.5  | 93.2  | 96.8  | 91.2      | 97.1   | 93.5   |

**Table HH.1: Results of household, women and under-five interviews**  
**Numbers of households, women and children under 5 by results of the household, women's and under-five's**  
**interviews, and household, women's and under-five's response rates, Balochistan Province, Pakistan, 2010**

|                                                      | Area  |       | Region |       |       |       |           |        | Total  |
|------------------------------------------------------|-------|-------|--------|-------|-------|-------|-----------|--------|--------|
|                                                      | Urban | Rural | Quetta | Kalat | Sibi  | Zhob  | Nasirabad | Makran |        |
| <b>Women's overall response rate</b>                 | 86.8  | 91.0  | 86.6   | 89.8  | 89.5  | 95.2  | 86.3      | 94.0   | 90.0   |
| <b>Children under 5 Eligible</b>                     | 2,349 | 8,083 | 2,270  | 2,159 | 1,504 | 2,318 | 1,456     | 725    | 10,432 |
| <b>Children under 5 Mother/Caretaker Interviewed</b> | 2,149 | 7,585 | 2,040  | 2,012 | 1,407 | 2,278 | 1,295     | 702    | 9,734  |
| <b>Child response rate</b>                           | 91.5  | 93.8  | 89.9   | 93.2  | 93.6  | 98.3  | 88.9      | 96.8   | 93.3   |
| <b>Children's overall response rate</b>              | 86.7  | 90.7  | 85.5   | 89.6  | 89.9  | 96.7  | 84.1      | 93.7   | 89.8   |

### 3.2 Characteristics of Households

24. The age and sex distribution of survey population is provided in Table HH.2 and population pyramid figure HH 1. A total of 89,218 members were listed in 11,612 households comprising 48,774 males and 40,433 females with an average household size of 7.7 persons.

25. Children under 15 years constitute 42 per cent of the total population, working age population (15-64 year) at nearly 56 per cent and old age population (65+ years) at around 2 per cent. Nearly half of the population (49 per cent) is composed of children 0-17 years while other half (51 per cent) are adults (18 years and above). Comparison with 1998 census data shows that the proportion of young population has declined by 5 percent points with corresponding increase in the working age population.

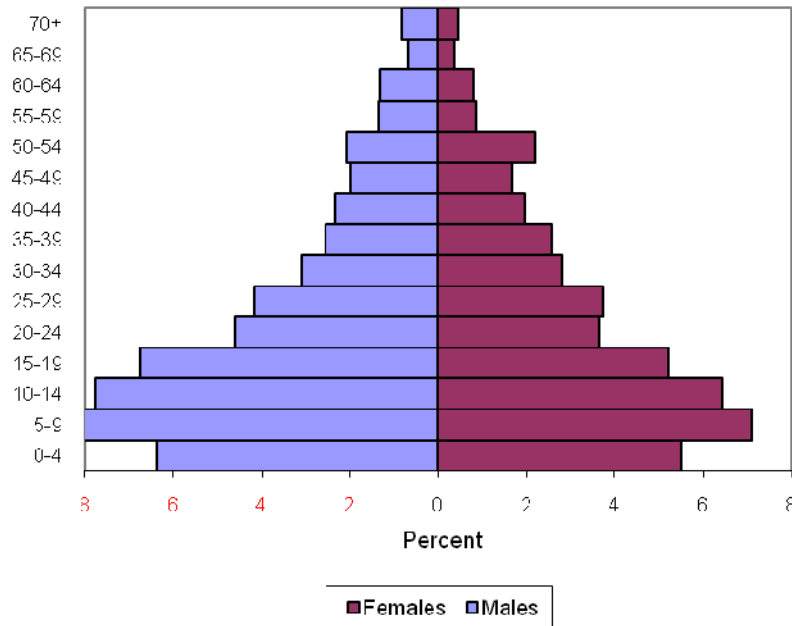
**Table HH.2: Household age distribution by sex**  
**Per cent and frequency distribution of household population by five-year age groups, dependency age groups, by child (age 0-17 years) and adult populations, by sex, Balochistan Province, Pakistan, 2010**

| Age Distribution by Sex        | Males             |         | Females |         | Missing |         | Total  |         |       |
|--------------------------------|-------------------|---------|---------|---------|---------|---------|--------|---------|-------|
|                                | Number            | Percent | Number  | Percent | Number  | Percent | Number | Percent |       |
| Age in Years                   | 0-4               | 5,697   | 11.7    | 4,917   | 12.2    | 4       | 34.7   | 10,618  | 11.9  |
|                                | 5-9               | 7,779   | 15.9    | 6,324   | 15.6    | 0       | 3.6    | 14,103  | 15.8  |
|                                | 10-14             | 6,923   | 14.2    | 5,742   | 14.2    | 2       | 19.2   | 12,668  | 14.2  |
|                                | 15-19             | 6,035   | 12.4    | 4,651   | 11.5    | 3       | 27.8   | 10,689  | 12.0  |
|                                | 20-24             | 4,106   | 8.4     | 3,241   | 8.0     | 1       | 9.3    | 7,349   | 8.2   |
|                                | 25-29             | 3,724   | 7.6     | 3,330   | 8.2     | 0       | 0.0    | 7,053   | 7.9   |
|                                | 30-34             | 2,771   | 5.7     | 2,505   | 6.2     | 0       | 0.0    | 5,275   | 5.9   |
|                                | 35-39             | 2,287   | 4.7     | 2,297   | 5.7     | 0       | 0.0    | 4,584   | 5.1   |
|                                | 40-44             | 2,073   | 4.3     | 1,752   | 4.3     | 0       | 0.0    | 3,825   | 4.3   |
|                                | 45-49             | 1,777   | 3.6     | 1,501   | 3.7     | 0       | 0.0    | 3,278   | 3.7   |
|                                | 50-54             | 1,842   | 3.8     | 1,959   | 4.8     | 0       | 0.0    | 3,801   | 4.3   |
|                                | 55-59             | 1,214   | 2.5     | 776     | 1.9     | 0       | 0.0    | 1,991   | 2.2   |
|                                | 60-64             | 1,187   | 2.4     | 716     | 1.8     | 0       | 0.0    | 1,903   | 2.1   |
|                                | 65-69             | 608     | 1.2     | 325     | 0.8     | 0       | 0.0    | 933     | 1.0   |
|                                | 70-74             | 402     | 0.8     | 182     | 0.5     | 0       | 0.0    | 584     | 0.7   |
|                                | 75-79             | 134     | 0.3     | 77      | 0.2     | 0       | 0.0    | 211     | 0.2   |
|                                | 80-84             | 128     | 0.3     | 86      | 0.2     | 0       | 0.0    | 213     | 0.2   |
|                                | 85+               | 75      | 0.2     | 49      | 0.1     | 0       | 0.0    | 125     | 0.1   |
| Dependency age groups          | 0-14              | 20,399  | 41.8    | 16,984  | 42.0    | 6       | 57.5   | 37,389  | 41.9  |
|                                | 15-64             | 27,016  | 55.4    | 22,729  | 56.2    | 4       | 37.1   | 49,748  | 55.8  |
|                                | 65+               | 1,347   | 2.8     | 718     | 1.8     | 0       | 0.0    | 2,066   | 2.3   |
| Children and adult populations | Children age 0-17 | 24,123  | 49.5    | 19,677  | 48.7    | 8       | 76.0   | 43,808  | 49.1  |
|                                | Adults 18+        | 24,640  | 50.5    | 20,754  | 51.3    | 2       | 18.6   | 45,396  | 50.9  |
| <b>Total</b>                   |                   | 48,774  | 100.0   | 40,433  | 100.0   | 10      | 100.0  | 89,218  | 100.0 |

Note: 15 numbers of cases with missing age are not shown in the table

26. The age pyramid figure HH1 and Appendix Table DQ.1 suggest age misreporting, age displacements and a high degree of digit preference at 0 and 5 years. The age pyramid also suggests that the proportion of children under age 5 was lower than 5-9 either suggesting fertility decline in the recent past or shifting of older children in the age group 0-4 years to the next cohort (age displacement), which could partly be an attempt by the fieldworkers to reduce the number of children eligible for filling-in the children questionnaire. A similar pattern is observed between the age groups 10-14 and 15-19 years. The pyramid also suggests significant shifting of women in their forties to the age group 50-54, again could partly be an attempt by the interviewers to reduce workload. Such displacements are also noted in other surveys as well.

**Figure HH.1: Age and sex distribution of household population, Balochistan Province, Pakistan, 2010**



27. Table HH.3 and Table HH.3a provide basic background information on the households covering sex and educational status of the household head, region, urban/rural status, wealth quintiles, number of household members and mean household size. The table also shows the proportions of households where at least one child under 5, at least one child under 18, and at least one woman age 15-49 were found. The total weighted and un-weighted numbers of households are equal, since sample weights were normalized (See Appendix A). These background characteristics are also used in subsequent tables in this report; the figures in the table are also intended to show the numbers of observations by major categories of analysis in the report.

28. Balochistan is basically a tribal society and like other provinces of Pakistan is male dominated. Culturally, male is supposed to be the head of the household irrespective of his age. Hence, universal male headship, as shown in table HH. 3, is not surprising. Household size is large. Only 25 percent households have five or less numbers whereas three-fourths of households have six or more people. Joint family system is prominently visible as one in five households (21 percent) has 10 or more persons. Ninety-one per cent households had at least one minor (less than 18 years) while 59 percent had at least one child less than 5 years. Ninety-four percent households had at least one woman of reproductive age (see table HH.3a).

**Table HH.3: Household composition**  
**Percent distribution of households by selected characteristics, Balochistan Province, Pakistan, 2010**

| Household Characteristics          |           | Weighted<br>per cent | Number of<br>households<br>weighted | Number of<br>households<br>un-weighted |
|------------------------------------|-----------|----------------------|-------------------------------------|----------------------------------------|
| <b>Sex of household head</b>       | Male      | 99.6                 | 11,560                              | 11,571                                 |
|                                    | Female    | 0.4                  | 52                                  | 41                                     |
| <b>Region</b>                      | Quetta    | 23.4                 | 2,715                               | 2,220                                  |
|                                    | Kalat     | 24.4                 | 2,835                               | 2,780                                  |
|                                    | Sibi      | 8.6                  | 997                                 | 1,724                                  |
|                                    | Zhob      | 14.4                 | 1,677                               | 2,256                                  |
|                                    | Nasirabad | 15.9                 | 1,849                               | 1,505                                  |
|                                    | Makran    | 13.3                 | 1,539                               | 1,127                                  |
| <b>Area</b>                        | Urban     | 23.4                 | 2,720                               | 2,626                                  |
|                                    | Rural     | 76.6                 | 8,892                               | 8,986                                  |
| <b>Number of household members</b> | 1         | (*)                  | 14                                  | 17                                     |
|                                    | 2         | 2.1                  | 243                                 | 244                                    |
|                                    | 3         | 4.1                  | 479                                 | 474                                    |
|                                    | 4         | 7.3                  | 852                                 | 896                                    |
|                                    | 5         | 11.0                 | 1,275                               | 1,351                                  |
|                                    | 6         | 13.9                 | 1,613                               | 1,689                                  |
|                                    | 7         | 15.0                 | 1,738                               | 1,683                                  |
|                                    | 8         | 18.8                 | 2,187                               | 2,105                                  |
|                                    | 9         | 6.9                  | 800                                 | 781                                    |
|                                    | 10+       | 20.8                 | 2,412                               | 2,372                                  |
| <b>Education of household head</b> | None      | 60.3                 | 7,006                               | 7,162                                  |
|                                    | Preschool | (*)                  | 12                                  | 12                                     |
|                                    | Primary   | 7.6                  | 884                                 | 811                                    |
|                                    | Middle    | 6.0                  | 702                                 | 683                                    |
|                                    | Matric    | 13.8                 | 1,606                               | 1,608                                  |
|                                    | Higher    | 11.6                 | 1,349                               | 1,273                                  |
|                                    | Madrassa  | (0.3)                | 32                                  | 41                                     |
| <b>Wealth quintiles</b>            | Poorest   | 21.8                 | 2528                                | 2702                                   |
|                                    | Second    | 20.7                 | 2402                                | 2437                                   |
|                                    | Middle    | 19.5                 | 2270                                | 2280                                   |
|                                    | Fourth    | 18.8                 | 2185                                | 2174                                   |
|                                    | Richest   | 19.2                 | 2227                                | 2019                                   |
| <b>Total</b>                       |           | 100.0                | 11,612                              | 11,612                                 |

Note 1: 22 un-weighted households didn't mention the educational level of the head of the household

Note 2: Figures denoted by an asterisk (\*) are based on denominators of 24 un-weighted cases and less.

Note 3: Figures shown in parenthesis are based on denominators of 25-49 un-weighted cases

Note 4 for Wealth Index: Principal components analysis was performed by using information on the ownership of household goods and amenities (assets) to assign weights to each household asset, and obtain wealth scores for each household in the sample (The assets used in these calculations were as follows: electricity, radio, television, non-mobile telephone, refrigerator, computer, sewing/embroidery machine, watch, mobile phone, bicycle, motor cycle/scooter, animal drawn cart, car/truck, tractor, agricultural land, livestock, source of drinking water, type of sanitation facility, type of cooking fuel, type of materials used for floor, roof, and wall). Each household was then weighted by the number of household members, and the household population was divided into five groups of equal size, from the poorest quintile to the richest quintile, based on the wealth scores of households they were living in. The wealth index is assumed to capture the underlying long-term wealth through information on the household assets, and is intended to produce a ranking of households by wealth, from poorest to richest. The wealth index does not provide information on absolute poverty, current income or expenditure levels, and the wealth scores calculated are applicable for only the particular data set they are based on. Further information on the construction of the wealth index can be found in Rutstein and Johnson, 2004, and Filmer and Pritchett, 2001.

| Household Characteristics                 | Weighted percent | Number of households<br>weighted | Number of households<br>un-weighted |
|-------------------------------------------|------------------|----------------------------------|-------------------------------------|
| <b>At least one child age 0-4 years</b>   | 58.9             | 11,612                           | 11,612                              |
| <b>At least one child age 0-17 years</b>  | 91.4             | 11,612                           | 11,612                              |
| <b>At least one woman age 15-49 years</b> | 94.4             | 11,612                           | 11,612                              |
| <b>Mean household size</b>                | 7.7              | 11,612                           | 11,612                              |

### 3.3 Characteristics of Respondents

29. Tables HH.4 and HH.5 provide information on the background characteristics of female respondents 15-49 years of age and of children under age 5, respectively. In both tables, the total numbers of weighted and un-weighted observations are equal, since sample weights have been normalized (standardized). The tables also show the numbers of observations in each background category.

30. Table HH.4, on background characteristics of female respondents 15-49 years of age, includes information on the distribution of women according to region, urban-rural areas, age, marital status, motherhood status, education<sup>3</sup>, and wealth index quintiles. Of the total women sampled for the survey, 25 percent were living in urban and 75 percent in rural areas. The highest proportion of sampled women were found in the age group 15-19 years (24 percent) followed by those in age group 20-24 and 25-29 (17 percent in each group), age group 30-34 (13 percent), age group 35-39 (12 percent), 40-44 years age group (9 percent) and 8 percent in the terminal age group of 45-49 years.

31. Nearly two-thirds of women between 15-49 years (64 percent) were currently married while less than a percent were formerly married and 36 percent never married. Among ever married women, 91 percent reported to have ever given a birth while 9 percent had never given birth by the time of the survey.

32. In terms of education, 75 percent women had no schooling at all, 6 percent had some schooling at primary level and nearly 13 percent had some schooling at the secondary level. The proportion of women living in households in the richest quintile was 22 percent. Variations in weighted and un-weighted numbers of observations in some categories are the result of over sampling in urban areas.

33. Table HH.5 shows background characteristics of children under 5 which include distribution by several attributes: sex, region, area of residence, age in months, mother or caretaker's education, and by wealth quintiles. The proportion of male children reported in the household roster was higher (54 percent) compared to female (46 percent). More children were sampled from rural households-(79 percent) than from the urban areas households (21 percent). The proportion of children was highest from Quetta region (26 percent) and lowest from Sibi. In terms of distribution of children by age, nearly 25 percent each were in the age

<sup>3</sup> Unless otherwise stated, "education" refers to educational level attended by the respondent throughout this report when it is used as a background variable.

group 36-47 months and 48-59 months, followed by 20 percent in the age group 24-35 months, 15 percent between 12-23 months and 14 percent were less than 12 months of age. Majority of the mothers (86 percent) whose children were less than five years of age had no education. Only 4 percent had some primary level and 7 percent some secondary level or above education. The proportion of children living in households across the 5 wealth quintiles varied slightly, fewer children were found to be living in the richest households (18 percent) compared to the poorest households (21 percent).

**Table HH.4: Women's background characteristics**

| Per cent distribution of women age 15-49 years by background characteristics, Balochistan Province, Pakistan, 2010 |                     | Weighted<br>per cent | Number of<br>women weighted | Number of women<br>un-weighted |
|--------------------------------------------------------------------------------------------------------------------|---------------------|----------------------|-----------------------------|--------------------------------|
| <b>Region</b>                                                                                                      | Quetta              | 27.4                 | 4,852                       | 3,812                          |
|                                                                                                                    | Kalat               | 21.7                 | 3,848                       | 3,793                          |
|                                                                                                                    | Sibi                | 7.0                  | 1,236                       | 2,435                          |
|                                                                                                                    | Zhob                | 14.1                 | 2,499                       | 3,539                          |
|                                                                                                                    | Nasirabad           | 17.8                 | 3,164                       | 2,501                          |
|                                                                                                                    | Makran              | 12.0                 | 2,132                       | 1,652                          |
| <b>Area</b>                                                                                                        | Urban               | 24.9                 | 4,414                       | 4,240                          |
|                                                                                                                    | Rural               | 75.1                 | 13,318                      | 13,492                         |
| <b>Age</b>                                                                                                         | 15-19               | 24.0                 | 4,250                       | 4,113                          |
|                                                                                                                    | 20-24               | 16.8                 | 2,972                       | 2,976                          |
|                                                                                                                    | 25-29               | 17.3                 | 3,074                       | 3,156                          |
|                                                                                                                    | 30-34               | 13.1                 | 2,332                       | 2,373                          |
|                                                                                                                    | 35-39               | 12.1                 | 2,146                       | 2,185                          |
|                                                                                                                    | 40-44               | 8.9                  | 1,580                       | 1,575                          |
|                                                                                                                    | 45-49               | 7.8                  | 1,378                       | 1,354                          |
| <b>Marital status</b>                                                                                              | Currently married   | 63.5                 | 11,260                      | 11,305                         |
|                                                                                                                    | Widowed             | 0.5                  | 87                          | 84                             |
|                                                                                                                    | Divorced            | (*)                  | 23                          | 23                             |
|                                                                                                                    | Separated           | (*)                  | 11                          | 10                             |
|                                                                                                                    | Never married       | 35.8                 | 6,351                       | 6,310                          |
| <b>Motherhood status of ever<br/>married women</b>                                                                 | Ever gave birth     | 90.7                 | 10,318                      | 10,338                         |
|                                                                                                                    | Never gave birth    | 9.3                  | 1,063                       | 1,084                          |
| <b>Births in last 2 years by ever<br/>married women</b>                                                            | Yes                 | 24.1                 | 2,491                       | 2,358                          |
|                                                                                                                    | No                  | 75.9                 | 7,826                       | 7,980                          |
| <b>Education</b>                                                                                                   | No formal education | 75.4                 | 13,420                      | 13,714                         |
|                                                                                                                    | Primary             | 6.4                  | 1,138                       | 1,129                          |
|                                                                                                                    | Middle              | 4.6                  | 819                         | 829                            |
|                                                                                                                    | Matric              | 7.9                  | 1,397                       | 1,275                          |
|                                                                                                                    | Higher              | 5.4                  | 957                         | 783                            |
| <b>Wealth index quintiles</b>                                                                                      | Poorest             | 19.6                 | 3,482                       | 3,780                          |
|                                                                                                                    | Second              | 19.9                 | 3,537                       | 3,612                          |
|                                                                                                                    | Middle              | 19.1                 | 3,378                       | 3,440                          |
|                                                                                                                    | Fourth              | 19.8                 | 3,506                       | 3,468                          |
|                                                                                                                    | Richest             | 21.6                 | 3,829                       | 3,432                          |
| <b>Total</b>                                                                                                       |                     | 100.0                | 17,732                      | 17,732                         |

Note 1: 2 numbers of cases with missing education of women are not shown.

Note 2: Figures denoted by an asterisk (\*) are based on denominators of 24 un-weighted cases and less.

**Table HH.5: Children's background characteristics**  
**Per cent distribution of children under five years of age by background characteristics, Balochistan Province**  
**Pakistan, 2010**

| Children's background characteristics |                          | Weighted<br>per cent | Number of under-<br>5 children<br>weighted | Number of under-<br>5 children<br>un-weighted |
|---------------------------------------|--------------------------|----------------------|--------------------------------------------|-----------------------------------------------|
| <b>Sex</b>                            | Male                     | 53.7                 | 5,222                                      | 5,216                                         |
|                                       | Female                   | 46.3                 | 4,508                                      | 4,516                                         |
| <b>Region</b>                         | Quetta                   | 26.2                 | 2,548                                      | 2,040                                         |
|                                       | Kalat                    | 21.1                 | 2,054                                      | 2,012                                         |
|                                       | Sibi                     | 8.2                  | 798                                        | 1,407                                         |
|                                       | Zhob                     | 16.5                 | 1,608                                      | 2,278                                         |
|                                       | Nasirabad                | 17.9                 | 1,743                                      | 1,295                                         |
|                                       | Makran                   | 10.1                 | 982                                        | 702                                           |
|                                       | <b>Area</b>              | Urban                | 20.8                                       | 2,028                                         |
|                                       | Rural                    | 79.2                 | 7,706                                      | 7,585                                         |
| <b>Age in months</b>                  | 0-5                      | 7.7                  | 749                                        | 751                                           |
|                                       | 6-11                     | 6.3                  | 613                                        | 560                                           |
|                                       | 12-23                    | 15.3                 | 1,493                                      | 1,440                                         |
|                                       | 24-35                    | 20.3                 | 1,973                                      | 2,003                                         |
|                                       | 36-47                    | 25.5                 | 2,479                                      | 2,528                                         |
|                                       | 48-59                    | 24.9                 | 2,426                                      | 2,452                                         |
| <b>Mother's education</b>             | None formal<br>education | 85.7                 | 8,338                                      | 8,463                                         |
|                                       | Primary                  | 4.4                  | 428                                        | 411                                           |
|                                       | Middle                   | 2.2                  | 210                                        | 219                                           |
|                                       | Matric                   | 4.3                  | 420                                        | 382                                           |
|                                       | Higher                   | 3.3                  | 321                                        | 259                                           |
| <b>Wealth index quintiles</b>         | Poorest                  | 20.9                 | 2,033                                      | 2,176                                         |
|                                       | Second                   | 20.8                 | 2,025                                      | 2,022                                         |
|                                       | Middle                   | 21.2                 | 2,062                                      | 2,032                                         |
|                                       | Fourth                   | 19.2                 | 1,868                                      | 1,866                                         |
|                                       | Richest                  | 17.9                 | 1,746                                      | 1,638                                         |
| <b>Total</b>                          |                          | 100.0                | 9,734                                      | 9,734                                         |

Note: Sex of 2 children is missing.



# IV Child Mortality

34. One of the overarching goals of the Millennium Development Goals (MDGs) and the World Fit for Children (WFFC) is to reduce infant and under-five mortality. Specifically, the MDGs call for the reduction in under-five mortality by two-thirds between 1990 and 2015. Monitoring progress towards this goal is an important but difficult task. Measuring childhood mortality may seem easy, but attempts using direct questions, such as “Has anyone in this household died in the last year?” give inaccurate results. Using direct measures of child mortality from birth histories is time consuming, more expensive, and requires greater attention to training and supervision. Alternatively, indirect methods developed to measure child mortality produce robust estimates that are comparable with the ones obtained from other sources. Indirect methods minimize the pitfalls of memory lapses, in exact or misinterpreted definitions, and interviewing technique.

35. The infant mortality rate is the probability of dying before the first birthday. The under-five mortality rate is the probability of dying before the fifth birthday. In MICS surveys, infant and under five mortality rates are calculated based on an indirect estimation technique known as the Brass method (United Nations, 1983; 1990a; 1990b). The data used in the estimation are: the mean number of children ever born for five year age groups of women from age 15 to 49, and the proportion of these children who are dead, also for five-year age groups of women (Table CM.1). The technique converts these data into probabilities of dying by taking into account both the mortality risks to which children are exposed and their length of exposure to the risk of dying, assuming a particular model age pattern of mortality. Based on previous information on mortality in Balochistan province, the East model life table was selected as most appropriate.

36. The data used for mortality estimation are shown in Table CM1. The mean number of children ever born rises from 0.032 among women 15-19 years old to 6.175 among 45-49 years old. The proportion of children dead decreases with the increasing age of women in age groups 15-19 to 30-34 and then again starts rising in the subsequent age groups.

**Table CM.1: Children ever born, children surviving and proportion dead**  
**Mean and total numbers of children ever born, children surviving and proportion dead by age of women,**  
**Balochistan Province, Pakistan, 2010**  
**(Both sexes)**

|       |       | Mean<br>number of<br>children<br>ever born | Total<br>number of<br>children<br>ever born | Mean<br>number<br>children<br>surviving | Total<br>number of<br>children<br>surviving | Proportion<br>dead | Number of<br>women |
|-------|-------|--------------------------------------------|---------------------------------------------|-----------------------------------------|---------------------------------------------|--------------------|--------------------|
| Age   | 15-19 | 0.032                                      | 138                                         | 0.029                                   | 123                                         | 0.110              | 4,250              |
|       | 20-24 | 0.581                                      | 1,726                                       | 0.537                                   | 1,596                                       | 0.075              | 2,972              |
|       | 25-29 | 2.148                                      | 6,605                                       | 1.971                                   | 6,058                                       | 0.083              | 3,074              |
|       | 30-34 | 3.927                                      | 9,156                                       | 3.615                                   | 8,428                                       | 0.079              | 2,332              |
|       | 35-39 | 4.969                                      | 10,664                                      | 4.548                                   | 9,762                                       | 0.085              | 2,146              |
|       | 40-44 | 5.892                                      | 9,308                                       | 5.327                                   | 8,416                                       | 0.096              | 1,580              |
|       | 45-49 | 6.157                                      | 8,485                                       | 5.551                                   | 7,650                                       | 0.098              | 1,378              |
| Total | Total | 2.599                                      | 46,083                                      | 2.370                                   | 42,032                                      | 0.088              | 17,732             |

37. Table CM.2 and figure CM. 1 provides estimates of infant and under-5 mortality rates by various background characteristics. The infant mortality rate (IMR) is estimated at 72 per thousand live births, while the probability of dying under-5 (U5MR) is around 89 per thousand live births. These estimates have been calculated by averaging mortality estimates obtained from women age 25-29 and 30-34.

38. The probability of dying a female infant or a female child under five is much higher (IMR 82 and U5MR at 107) compared to male infant or a male child (IMR 63 and U5MR at 74); a similar pattern was observed in MICS for NWFP conducted during 2008. However, the differentials are large and it is quite unusual for IMR to have such a big disparity between male and female. Infant and under-5 mortality rates are lowest in Makran region, while these are nearly twice as high in Kalat region compared to Makran region.

39. There are also significant differences in mortality in terms of rural-urban residence, mother's educational level and wealth quintiles based on household possessions. In particular, the probabilities of dying among children living in the upper three quintile households is considerably lower than those in two poorest quintiles. Similarly, the probability of dying among children of uneducated women is much higher (IMR at 73 and U5MR at 91) compared to those who have some primary education (IMR at 52 and U5MR at 61). Infant and under-5 mortality rates by educational level of mothers display considerable differentials and needs further in-depth analysis of the data, particularly the increase in mortality of children from mothers with 'middle level' education is very odd.

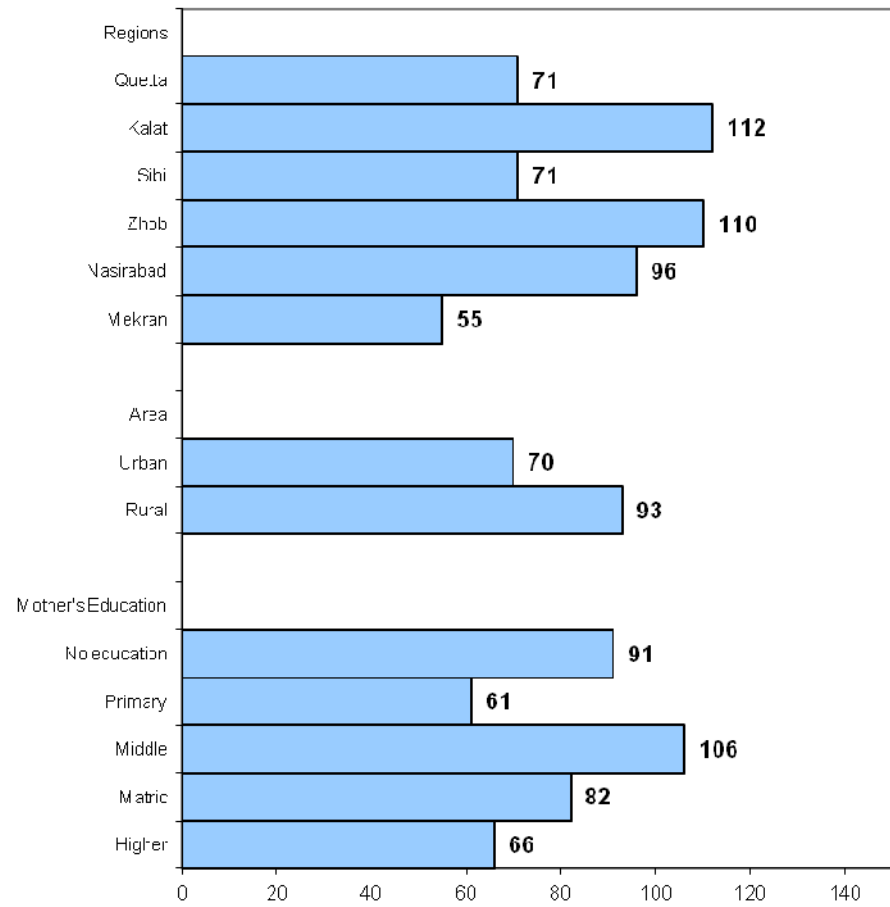
**Table CM.2: Child Mortality  
Infant and Under-five Mortality Rates, East Model, Balochistan Province, Pakistan, 2010**

|                               |           | Infant Mortality<br>Rate - IMR [1] | Under-five Mortality Rate<br>– U5MR [2] |
|-------------------------------|-----------|------------------------------------|-----------------------------------------|
| <b>Sex</b>                    | Male      | 63                                 | 74                                      |
|                               | Female    | 82                                 | 107                                     |
| <b>Region</b>                 | Quetta    | 59                                 | 71                                      |
|                               | Kalat     | 88                                 | 112                                     |
|                               | Sibi      | 59                                 | 71                                      |
|                               | Zhob      | 87                                 | 110                                     |
|                               | Nasirabad | 77                                 | 96                                      |
|                               | Makran    | 47                                 | 55                                      |
|                               |           |                                    |                                         |
| <b>Area</b>                   | Urban     | 58                                 | 70                                      |
|                               | Rural     | 75                                 | 93                                      |
| <b>Mother's Education</b>     | None      | 73                                 | 91                                      |
|                               | Primary   | 52                                 | 61                                      |
|                               | Middle    | 83                                 | 106                                     |
|                               | Matric    | 66                                 | 82                                      |
|                               | Higher    | 56                                 | 66                                      |
| <b>Wealth Index Quintiles</b> | Poorest   | 84                                 | 106                                     |
|                               | Second    | 86                                 | 109                                     |
|                               | Middle    | 64                                 | 78                                      |
|                               | Fourth    | 65                                 | 79                                      |
|                               | Richest   | 56                                 | 67                                      |
|                               | Total     | 72                                 | 89                                      |

[1] MICS indicator 1.1; MDG indicator 4.1

[2] MICS indicator 1.2; MDG indicator 4.2

**Figure CM.1: Under-5 mortality rates by selected background characteristics, Balochistan Province, Pakistan, 2010**



# V N **utrition**

40. Children's nutritional status is a reflection of their overall health. When children have access to an adequate food supply, are not exposed to repeated illness, and are well cared for, they reach their growth potential and are considered well nourished.

41. Malnutrition is associated with more than half of all child deaths worldwide. Undernourished children are more likely to die from common childhood ailments, and for those who survive, have recurring sicknesses and faltering growth. The Millennium Development target is to reduce by half the proportion of people who suffer from hunger between 1990 and 2015. A reduction in the prevalence of malnutrition will also assist in the goal to reduce child mortality.

42. As mentioned earlier under methodology in paragraph 19, data on anthropometric measurement of young children was dropped from the analysis because of data quality issues.

## **5.1 Breastfeeding and Infant and Young Child Feeding**

43. Breastfeeding should be initiated within one hour of birth. Breastfeeding for the first two years of life protects children from infection, is an ideal source of nutrients, and is economical and safe. However, many mothers stop breastfeeding too soon for various personal reasons. There is often temptation to switch to infant formula, which can contribute to growth faltering and micronutrient malnutrition and is unsafe if clean water is not used to prepare the milk formula.

44. WHO/UNICEF have the following feeding recommendations:

- Exclusive breastfeeding for first six months
- Continued breastfeeding for two years or more
- Safe, appropriate and adequate complementary foods beginning at 6 months
- Frequency of complementary feeding: 2 times per day for 6-8 month olds; 3 times per day for 9-11 month olds

45. The recommendations for child feeding practices are as follows:

- Early initiation of breastfeeding (within 1 hour of birth)
- Exclusive breastfeeding (< 6 months)
- Predominant breastfeeding (< 6 months)
- Continued breastfeeding (at 1 year and at 2 years)
- Duration of breastfeeding
- Age-appropriate breastfeeding (0-23 months)
- Introduction of solid, semi-solid and soft foods (6-8 months)
- Minimum meal frequency (6-23 months)
- Milk feeding frequency for non-breastfeeding children (6-23 months)
- Bottle feeding (0-23 months)

46. Table NU.1 provides the proportion of children born in the last two years who were ever breastfed and those who received a pre-lacteal feed. Mothers up to 94 percent reported to have ever breastfed their youngest child less than two years of age. Only small differences were observed across regions: Makran region had the highest ever breastfed rate of 97 percent while Nasirabad had the lowest at 91 percent. Ninety-three percent children in the age group 12-23 months were ever breastfed compared to 95 percent in the age group 0-11 months. Differentials in breastfeeding practices were not very evident on the basis of mother's education, urban-rural residence, and those who received assistance of a trained health personnel during delivery or otherwise. Percentage of ever breastfed children from households in the poorest quintile was higher by 3 percent points than those from the richest quintile (97 versus 94 percent).

47. A little over 49 percent of children born in two years preceding the survey had received pre-lacteal feed. The proportion of such children was much less in Quetta and Nasirabad regions (36 percent) and highest in Makran region at 89 percent. A relatively higher proportion of children born at home-or assisted by traditional birth attendant and in the poorest wealth quintile received pre-lacteal feed.

**Table NU.1: Initial Breastfeeding  
Percentage of Last-born Children in the 2 Years Preceding the Survey Who were Ever Breastfed, and  
Percentage Who Received a Pre-lacteal Feed, Balochistan Province, Pakistan, 2010**

|                                |                                | Percentage Ever<br>Breastfed [1] | Percentage Who<br>Received a Pre-<br>lacteal Feed | Number of Last-<br>born Children in<br>the Two Years<br>Preceding the<br>Survey |
|--------------------------------|--------------------------------|----------------------------------|---------------------------------------------------|---------------------------------------------------------------------------------|
| <b>Region</b>                  | Quetta                         | 93.3                             | 35.5                                              | 792                                                                             |
|                                | Kalat                          | 96.0                             | 69.7                                              | 565                                                                             |
|                                | Sibi                           | 94.0                             | 52.6                                              | 166                                                                             |
|                                | Zhob                           | 96.2                             | 39.6                                              | 286                                                                             |
|                                | Nasirabad                      | 90.5                             | 35.5                                              | 476                                                                             |
|                                | Makran                         | 97.4                             | 88.7                                              | 207                                                                             |
| <b>Area</b>                    | Urban                          | 94.1                             | 48.3                                              | 602                                                                             |
|                                | Rural                          | 94.1                             | 49.6                                              | 1,889                                                                           |
| <b>Months Since Last Birth</b> | 0-11 months                    | 94.9                             | 49.4                                              | 1,360                                                                           |
|                                | 12-23 months                   | 93.1                             | 49.0                                              | 1,130                                                                           |
| <b>Assistance at Delivery</b>  | Skilled Attendant              | 95.4                             | 43.1                                              | 720                                                                             |
|                                | Traditional Birth Attendant    | 94.6                             | 52.5                                              | 1,684                                                                           |
| <b>Place of Delivery</b>       | Public Sector Health Facility  | 94.7                             | 43.4                                              | 342                                                                             |
|                                | Private Sector Health Facility | 96.1                             | 38.2                                              | 262                                                                             |
| <b>Mother's Education</b>      | Home                           | 94.7                             | 52.9                                              | 1,826                                                                           |
|                                | No formal education            | 94.0                             | 49.3                                              | 2,025                                                                           |
|                                | Primary                        | 93.7                             | 45.1                                              | 136                                                                             |
|                                | Middle                         | 95.2                             | 46.0                                              | 73                                                                              |
|                                | Matric                         | 92.6                             | 55.0                                              | 140                                                                             |
|                                | Higher                         | 97.6                             | 48.6                                              | 117                                                                             |
| <b>Wealth Index Quintiles</b>  | Poorest                        | 96.8                             | 60.9                                              | 464                                                                             |
|                                | Second                         | 94.0                             | 56.8                                              | 539                                                                             |
|                                | Middle                         | 93.4                             | 45.8                                              | 485                                                                             |
|                                | Fourth                         | 92.5                             | 44.0                                              | 490                                                                             |
|                                | Richest                        | 93.9                             | 39.1                                              | 513                                                                             |
| <b>Total</b>                   |                                | 94.1                             | 49.3                                              | 2,491                                                                           |

[1] MICS indicator 2.4

Note: 87 cases with missing information on 'assistance at delivery' not shown and 62 cases with missing information on 'place of delivery' not shown.

48. In Table NU.2, breastfeeding status is based on the reports of mothers/caretakers of children's consumption of food and fluids in the 24 hours prior to the interview. *Exclusively breastfed* refers to infants who received only breast milk (and vitamins, mineral supplements, or medicine). The table shows exclusive breastfeeding of infants during the first six months of life, as well as continued breastfeeding of children at 12-15 and 20-23 months of age.

**Table NU.2: Breastfeeding**  
**Percentage of living children according to breastfeeding status at selected age groups, Balochistan Province,**  
**Pakistan, 2010**

|                               |               | Children 0-5 months               |                                     |                    | Children 12-15 months                                     |                    | Children 20-23 months                                      |                    |
|-------------------------------|---------------|-----------------------------------|-------------------------------------|--------------------|-----------------------------------------------------------|--------------------|------------------------------------------------------------|--------------------|
|                               |               | Percent exclusively breastfed [1] | Percent predominantly breastfed [2] | Number of children | Percent breastfed (Continued breastfeeding at 1 year) [3] | Number of children | Percent breastfed (Continued breastfeeding at 2 years) [4] | Number of children |
| <b>Sex</b>                    | Male          | 37.5                              | 55.5                                | 380                | 84.0                                                      | 342                | 58.0                                                       | 237                |
|                               | Female        | 42.0                              | 58.5                                | 369                | 87.7                                                      | 297                | 67.0                                                       | 219                |
| <b>Region</b>                 | Quetta        | 35.6                              | 51.2                                | 244                | 72.6                                                      | 170                | 47.5                                                       | 134                |
|                               | Kalat         | 47.9                              | 58.7                                | 151                | 91.0                                                      | 152                | 55.4                                                       | 113                |
|                               | Sibi          | 34.2                              | 64.3                                | 26                 | (75.8)                                                    | 37                 | (84.2)                                                     | 45                 |
|                               | Zhob          | 38.2                              | 60.2                                | 125                | 84.5                                                      | 96                 | (70.9)                                                     | 50                 |
|                               | Nasirabad     | 52.1                              | 66.8                                | 140                | 93.3                                                      | 108                | 76.6                                                       | 103                |
|                               | Makran        | 13.9                              | 44.3                                | 63                 | 100.0                                                     | 77                 | (*)                                                        | 11                 |
| <b>Area</b>                   | Urban         | 37.3                              | 59.2                                | 183                | 86.8                                                      | 147                | 65.5                                                       | 97                 |
|                               | Rural         | 40.5                              | 56.3                                | 566                | 85.4                                                      | 492                | 61.4                                                       | 360                |
| <b>Mother's education</b>     | None          | 41.9                              | 59.2                                | 603                | 86.1                                                      | 538                | 64.1                                                       | 376                |
|                               | Any education | 31.0                              | 48.3                                | 146                | 83.2                                                      | 101                | 58.2                                                       | 80                 |
| <b>Wealth index quintiles</b> | Poorest       | 47.5                              | 65.9                                | 157                | 86.8                                                      | 137                | 56.9                                                       | 94                 |
|                               | Second        | 42.2                              | 60.1                                | 166                | 83.0                                                      | 121                | 69.4                                                       | 92                 |
|                               | Middle        | 32.5                              | 44.0                                | 120                | 88.9                                                      | 130                | 68.5                                                       | 93                 |
|                               | Fourth        | 31.4                              | 52.9                                | 159                | 90.6                                                      | 127                | 59.8                                                       | 90                 |
|                               | Richest       | 43.6                              | 58.9                                | 146                | 78.8                                                      | 124                | 56.7                                                       | 88                 |
| <b>Total</b>                  |               | 39.7                              | 57.0                                | 749                | 85.7                                                      | 639                | 62.3                                                       | 456                |

Note 1: Figures shown in parenthesis are based on denominators of 25-50 un-weighted cases.

Note 2: Figures denoted by an asterisk (\*) are based on denominators of 24 un-weighted cases and less.

[1] MICS indicator 2.6

[2] MICS indicator 2.9

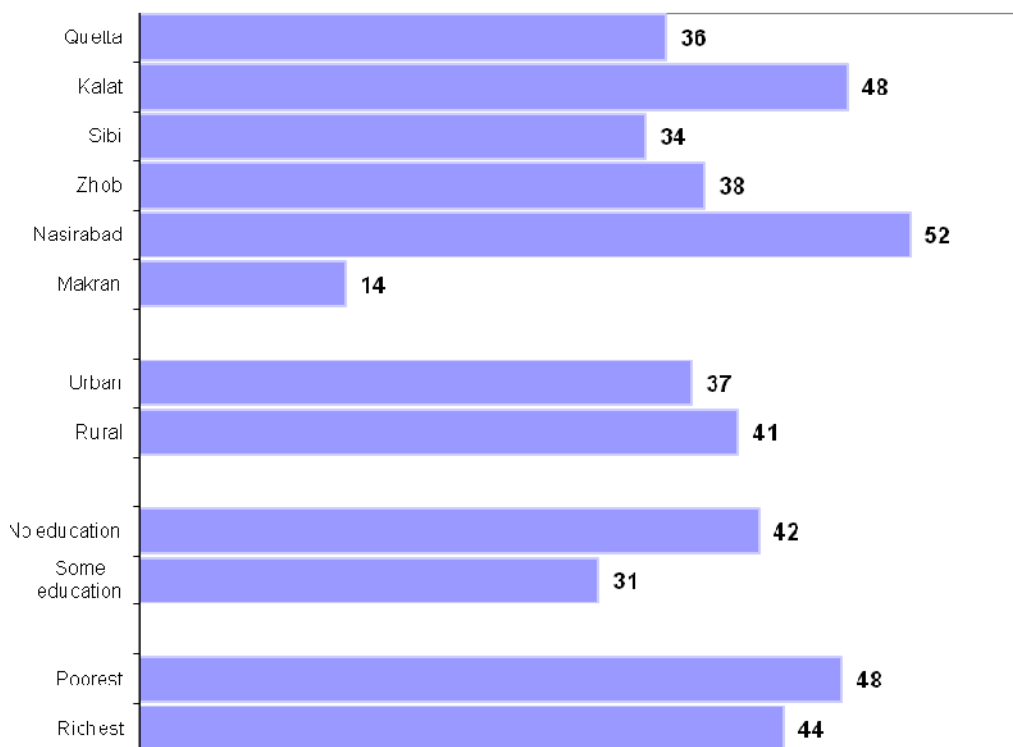
[3] MICS indicator 2.7

[4] MICS indicator 2.8

49. Approximately 40 percent of children less than six months we exclusively breastfed, a level considerably lower than recommended. By age 12-15 months, 86 percent of children were still being breastfed and 62 percent by age 20-23 months. Girls were more likely to be exclusively breastfed than boys (42 percent vs 38 percent). Exclusive breastfeeding practice was most common in Nasirabad region at 52 percent and least likely in Makran region at 14 percent. Higher proportion of exclusively breastfed infants was noted in rural areas at 41 percent compared to the urban areas at 37 percent. Similarly, it was relatively higher among uneducated and poor families. Further details of exclusively breastfed infants are shown in figure NU.1.



**Figure NU.1 Percentage of infants 0-5 months exclusively breastfed by background characteristics, Balochistan Province, Pakistan, 2010**



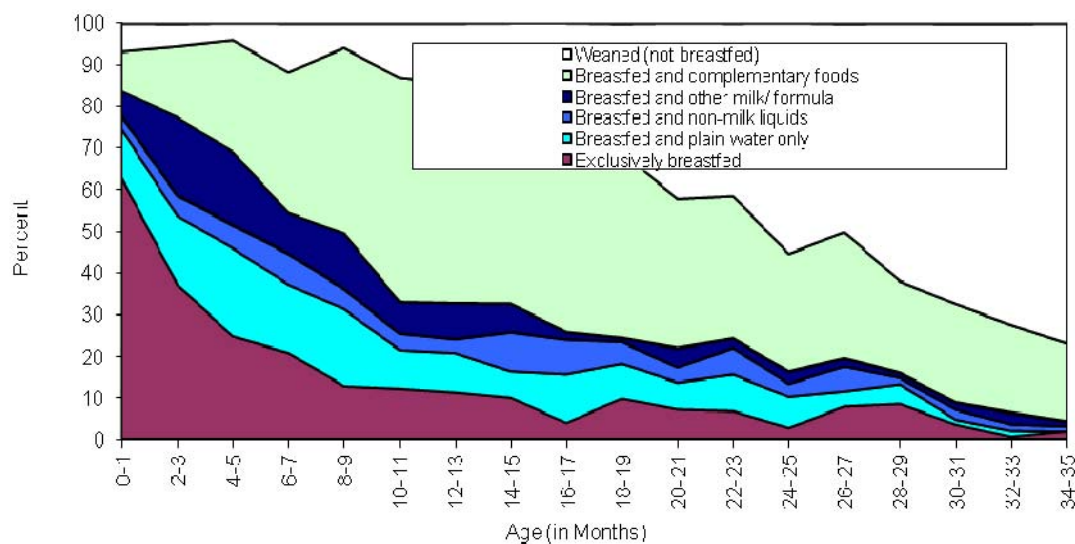
50. Predominant breastfeeding refers to children age 0-5 months that are exclusively breastfed or receiving plain water and non-milk liquids only. Table NU.2 shows that 57 percent of infants were predominantly breastfed in Balochistan; the proportion of female infants was higher by 3 percent points than males and 1.5 percent points from the average. The proportion of predominantly breastfed infants was highest in Nasirabad region at 66.8 percent and lowest in Makran at 44.3 percent – a difference of 22.5 percent points between two extremes. A difference of 3 percent points was observed on residence basis between 59 percent in urban and 56 percent in rural areas. The proportion of predominantly breastfed infants was also higher in poorest quintile households by 7 percent points than those in the richest quintile (65.9 versus 58.9 percent) and where mothers had no education.

51. Table NU.2 also shows that 86 percent children age 12-15 months were receiving continued breastfeeding at age one year. This proportion was slightly higher for females at 88 percent compared to males at 84 percent and highest in Nasirabad region at 93 percent and lowest in Quetta at 73 percent. A difference of 2 percent points was noted in this respect between urban rural residence with 87 percent in urban and 85 percent in rural areas. The proportion of children 12-15 months who received continued breastfeeding was higher among households in the poorest quintile at 87 percent than those in richest households at 79 percent.

52. Overall, 62 percent children between 20-23 months were still receiving breastfeeding, higher in Sibi region at 84 percent and in urban areas at 66 percent. No clear pattern was noted on the basis of education and wealth index quintiles. Figure NU.2 shows the pattern of

breastfeeding by the child's age in months. Even at the earliest ages, majority of children were receiving liquids or foods other than breast milk.

**Figure NU.2: Percent distribution of children aged less than 36 months by feeding pattern by age group, Balochistan Province, Pakistan, 2010**



## 5.2 Duration of breastfeeding

53. Table NU.3 shows the median duration of breastfeeding among children under 3-years ago by selected background characteristics. The median duration is 25 months for 'any breastfeeding', while the mean average for 'exclusive breastfeeding' was nearly 5 months and for 'predominant breastfeeding' it was 8 months. Median duration for any breastfeeding was: higher for female children (26 months) compared to males (24 months); highest in Kalat region (29 months) and lowest in Quetta region (21 months); and higher among poorest (28 months) compared to affluent households (22 months). The median duration for any kind of breastfeeding was higher among uneducated mothers (25 months) compared to those who had some schooling.

**Table NU.3: Duration of breastfeeding**  
**Median duration of any breastfeeding, exclusive breastfeeding, and predominant breastfeeding among**  
**children age 0-35 months, Balochistan Province,**  
**Pakistan, 2010**

|                                     |           | Median duration (in months) of |                            |                              | Number of children<br>age 0-35 months |
|-------------------------------------|-----------|--------------------------------|----------------------------|------------------------------|---------------------------------------|
|                                     |           | Any<br>breastfeeding [1]       | Exclusive<br>breastfeeding | Predominant<br>breastfeeding |                                       |
| Sex                                 | Male      | 23.5                           | 1.4                        | 3.3                          | 2,542                                 |
|                                     | Female    | 25.7                           | 1.9                        | 4.3                          | 2,285                                 |
| Region                              | Quetta    | 20.9                           | 1.4                        | 2.6                          | 1,377                                 |
|                                     | Kalat     | 28.5                           | 2.4                        | 3.8                          | 1,024                                 |
|                                     | Sibi      | 28.1                           | 0.6                        | 3.8                          | 344                                   |
|                                     | Zhob      | 25.8                           | 0.7                        | 8.5                          | 803                                   |
|                                     | Nasirabad | 27.3                           | 2.7                        | 5.1                          | 907                                   |
|                                     | Makran    | 25.4                           | .6                         | 2.2                          | 375                                   |
|                                     | Area      | Urban                          | 24.3                       | 1.2                          | 4.0                                   |
|                                     | Rural     | 24.9                           | 1.8                        | 3.6                          | 3,767                                 |
| Mother's<br>education               | None      | 25.2                           | 1.8                        | 4.0                          | 4,047                                 |
|                                     | Primary   | 23.3                           | 1.5                        | 1.9                          | 237                                   |
|                                     | Middle    | 21.9                           | 1.0                        | 2.5                          | 121                                   |
|                                     | Matric    | 22.6                           | .7                         | 2.2                          | 225                                   |
|                                     | Higher    | 18.6                           | 1.3                        | 4.6                          | 189                                   |
| Wealth<br>index<br>quintile         | Poorest   | 28.1                           | 2.3                        | 5.8                          | 1,020                                 |
|                                     | Second    | 25.5                           | 1.7                        | 4.8                          | 1,001                                 |
|                                     | Middle    | 24.3                           | 0.7                        | 1.4                          | 972                                   |
|                                     | Fourth    | 24.0                           | 0.7                        | 3.0                          | 927                                   |
|                                     | Richest   | 22.3                           | 2.1                        | 3.5                          | 908                                   |
| Median                              |           | 24.8                           | 1.6                        | 3.7                          | 4,829                                 |
| Mean for all children (0-35 months) |           | 23.9                           | 4.6                        | 8.0                          | 4,829                                 |

[1] MICS indicator 2.10

Note: 10 number of cases with mother's education as Preschool or Madrassa are not shown

### 5.3 Complementary feeding

54. For infants aged 0-5 months, exclusive breastfeeding is considered as adequate feeding. Adequate complementary feeding of children from six months to two years is important for growth and development of children and prevention of under nutrition. Therefore, continued breastfeeding beyond six months should be accompanied by consumption of nutritionally adequate, safe and appropriate complementary foods that help meet nutritional requirements of child when breast milk is no longer sufficient. Breastfed infants of 6-8 months require two or more meals of solid, semi-solid or soft foods and three or more meals if they are 9-23 months of age. For children 6-23 months and older, who are not breastfed, four or more meals of solid, semi-solid or soft foods or milk feeds are needed.

55. The feeding practices of children under 24 months are provided in Table NU.4. About 40 percent of infants less than 6 months of age are exclusively breastfed in Balochistan. The proportion of such infants is higher in Nasirabad region (52 percent) and lowest in Makran region (14 percent). Relatively higher proportion of female infants is exclusively

breastfed (42 percent) compared to male infants (38 percent). Exclusively breastfeeding of infants under 6 months of age is relatively more prevalent in rural (41 percent) compared to urban areas (37 percent) and among infants from the poorest quintile households (48 percent).

56. Among children aged 6-23 months old, 46 percent were appropriately fed on the day before survey, slightly more males than females. In this age group, 57 percent children from Makran region are adequately fed against 32 percent in Nasirabad region. More children from the urban areas were adequately fed by about 5 percent points than the rural children (49.5 versus 44.9 percent). Women who have some schooling and those who are in the richest wealth quintile are slightly more likely to provide adequate feeding (48 percent) to their children.

57. Overall, among children 0-23 months, 44 percent are appropriately fed with little difference between male and female. The proportion of appropriately fed children is highest in Quetta, Kalat and Zhob to the level of around 47 percent and as low as 37 percent in Nasirabad region and slightly higher in urban (46 percent) compared to rural areas (44 percent). On the basis of wealth index quintiles, the percentage of children age 0-23 months receiving appropriate feeding was almost similar in the poorest and the richest quintiles (47 percent).

**Table NU.4: Age-appropriate breastfeeding**  
**Percentage of children age 0-23 months who were appropriately breastfed during the previous day,**  
**Balochistan Province, Pakistan, 2010**

|                        |           | Children age 0-5 months           |                    | Children age 6-23 months                                                               |                    | Children age 0-23 months            |                    |
|------------------------|-----------|-----------------------------------|--------------------|----------------------------------------------------------------------------------------|--------------------|-------------------------------------|--------------------|
|                        |           | Percent exclusively breastfed [1] | Number of children | Percent currently breastfeeding and receiving adequate solid, semi-solid or soft foods | Number of children | Percent appropriately breastfed [2] | Number of children |
| Sex                    | Male      | 37.5                              | 380                | 46.6                                                                                   | 1,097              | 44.3                                | 1,477              |
|                        | Female    | 42.0                              | 369                | 45.3                                                                                   | 1,009              | 44.4                                | 1,379              |
| Region                 | Quetta    | 35.6                              | 244                | 51.1                                                                                   | 631                | 46.8                                | 875                |
|                        | Kalat     | 47.9                              | 151                | 46.6                                                                                   | 487                | 46.9                                | 639                |
|                        | Sibi      | 34.2                              | 26                 | 44.1                                                                                   | 144                | 42.6                                | 170                |
|                        | Zhob      | 38.2                              | 125                | 50.8                                                                                   | 270                | 46.8                                | 395                |
|                        | Nasirabad | 52.1                              | 140                | 31.5                                                                                   | 428                | 36.6                                | 567                |
|                        | Makran    | 13.9                              | 63                 | 57.1                                                                                   | 146                | 44.0                                | 209                |
|                        | Total     |                                   |                    |                                                                                        |                    |                                     |                    |
| Area                   | Urban     | 37.3                              | 183                | 49.5                                                                                   | 470                | 46.1                                | 653                |
|                        | Rural     | 40.5                              | 566                | 44.9                                                                                   | 1,636              | 43.8                                | 2,202              |
| Mother's education     | None      | 41.9                              | 603                | 45.6                                                                                   | 1,742              | 44.7                                | 2,345              |
|                        | Primary   | (22.6)                            | 44                 | 49.1                                                                                   | 108                | 41.5                                | 152                |
|                        | Middle    | (*)                               | 24                 | 48.8                                                                                   | 59                 | 45.3                                | 83                 |
|                        | Matric    | (31.5)                            | 41                 | 53.3                                                                                   | 107                | 47.3                                | 148                |
|                        | Higher    | (34.9)                            | 36                 | 39.4                                                                                   | 85                 | 38.1                                | 121                |
| Wealth index quintiles | Poorest   | 47.5                              | 157                | 46.5                                                                                   | 415                | 46.8                                | 572                |
|                        | Second    | 42.2                              | 166                | 44.3                                                                                   | 442                | 43.7                                | 608                |
|                        | Middle    | 32.5                              | 120                | 47.2                                                                                   | 444                | 44.0                                | 565                |
|                        | Fourth    | 31.4                              | 159                | 44.1                                                                                   | 382                | 40.4                                | 541                |
|                        | Richest   | 43.6                              | 146                | 47.6                                                                                   | 423                | 46.6                                | 569                |
| Total                  |           | 39.7                              | 749                | 46.0                                                                                   | 2,106              | 44.3                                | 2,855              |

Note 1: Figures shown in parenthesis are based on denominators of 25-40 un-weighted cases.

Note 2: Figures denoted by an asterisk (\*) are based on denominators of 24 un-weighted cases and less

Note 3: 7 number of cases with mother's education as Preschool or Madrassa are not shown

[1] MICS indicator 2.6

[2] MICS indicator 2.14

#### 5.4 Initiation of solid, semi-solid or soft food in 6-8 months infants

58. Overall, 38 percent infant of 6-8 months age had started receiving solid, semi-solid, or soft foods, as per details given in Table NU.5, more male infants (40 percent) were benefiting than female infants (35 percent) and also those residing in urban (41 percent) than in rural areas (37 percent). Among currently breastfeeding infants a similar pattern was observed. The number of un-weighted children 6-8 months, who were not currently breastfed, was small and hence dropped from analysis.

**Table NU.5: Introduction of solid, semi-solid or soft food**  
**Percentage of infants age 6-8 months who received solid, semi-solid or soft foods during the previous day,**  
**Balochistan Province, Pakistan, 2010**

|       |        | Currently breastfeeding                           |                                   | Currently not breastfeeding                       |                                   | All                                                   |                                   |
|-------|--------|---------------------------------------------------|-----------------------------------|---------------------------------------------------|-----------------------------------|-------------------------------------------------------|-----------------------------------|
|       |        | Percent receiving solid, semi-solid or soft foods | Number of children age 6-8 months | Percent receiving solid, semi-solid or soft foods | Number of children age 6-8 months | Percent receiving solid, semi-solid or soft foods [1] | Number of children age 6-8 months |
| Sex   | Male   | 41.4                                              | 158                               | (*)                                               | 18                                | 39.8                                                  | 181                               |
|       | Female | 34.0                                              | 144                               | (*)                                               | 7                                 | 35.2                                                  | 157                               |
| Area  | Urban  | 39.3                                              | 62                                | (*)                                               | 5                                 | 41.1                                                  | 70                                |
|       | Rural  | 37.5                                              | 239                               | (*)                                               | 20                                | 36.8                                                  | 268                               |
| Total |        | 37.9                                              | 301                               | (*)                                               | 25                                | 37.7                                                  | 338                               |

Note: Figures denoted by an asterisk (\*) are based on denominators of 24 un-weighted cases and less

[1] MICS indicator 2.12

## 5.5 Frequency of minimum number of meals

59. Table NU.6 presents the proportion of children 6-23 months who received the minimum number of times or more the semi-solid or soft foods during the previous day. Minimum meal frequency among currently breastfeeding children age 6-8 months, is defined as children who also received solid, semi-solid or soft foods at least 2 times or more, and those in age group 9-23 months, received solid, semi-solid or soft foods at least 3 times or more. For non-breastfeeding children age 6-23 months, minimum meal frequency is defined as children receiving solid, semi-solid or soft foods and milk feeds at least 4 times or more during the previous day. However, for the ease of presentation, the currently breastfeeding children fulfilling the criteria of minimum meals frequency have been lumped together.

60. Overall, about one-fifth of children age 6-23 months (20.3 percent) fulfilled the criteria of minimum meal frequency on the day before survey. A slightly higher proportion of males (21 percent) were enjoying the minimum meal frequency compared to females (19 percent). A much higher proportion of children from Quetta and Kalat regions (around 24 percent) fulfilled the criteria of minimum meal frequency than those from Makran region (4.6 percent). Urban based children also had a better access to minimum meal frequency criteria than the rural children by about 6 percent points (25.2 versus 18.9 percent). Education of mother also influenced in favour better meals frequency of target children on the scale of minimum meals frequency. More details on 'currently breastfeeding' and 'currently not breastfeeding' target children, by background characteristics, are presented in Table NU.6.

**Table NU.6: Minimum meal frequency**  
**Percentage of children age 6-23 months who received solid, semi-solid, or soft foods (and milk feeds for non-breastfeeding children) the minimum number of times or more during the previous day, according to breastfeeding status, Balochistan Province, Pakistan, 2010**

|                               |              | Currently breastfeeding                                                        |                    | Currently not breastfeeding                 |                                                                                  |                    | All                                     |                    |
|-------------------------------|--------------|--------------------------------------------------------------------------------|--------------------|---------------------------------------------|----------------------------------------------------------------------------------|--------------------|-----------------------------------------|--------------------|
|                               |              | Percent receiving solid, semi-solid and soft foods the minimum number of times | Number of children | Percent receiving at least 2 milk feeds [1] | Percent receiving solid, semi-solid and soft foods or milk feeds 4 times or more | Number of children | Percent with minimum meal frequency [2] | Number of children |
| <b>Sex</b>                    | Male         | 12.2                                                                           | 854                | 57.4                                        | 52.7                                                                             | 243                | 21.2                                    | 1,097              |
|                               | Female       | 9.8                                                                            | 831                | 63.0                                        | 63.9                                                                             | 178                | 19.4                                    | 1,009              |
| <b>Age</b>                    | 6-8 months   | 19.8                                                                           | 301                | (48.6)                                      | (31.6)                                                                           | 37                 | 21.1                                    | 338                |
|                               | 9-11 months  | 5.4                                                                            | 252                | (*)                                         | (*)                                                                              | 22                 | 11.4                                    | 275                |
|                               | 12-17 months | 10.1                                                                           | 709                | 65.4                                        | 62.9                                                                             | 140                | 18.8                                    | 849                |
| <b>Region</b>                 | 18-23 months | 9.7                                                                            | 422                | 57.4                                        | 56.0                                                                             | 222                | 25.6                                    | 644                |
|                               | Quetta       | 10.9                                                                           | 450                | 56.5                                        | 56.9                                                                             | 181                | 24.1                                    | 631                |
|                               | Kalat        | 12.5                                                                           | 393                | 78.6                                        | 74.5                                                                             | 94                 | 24.5                                    | 487                |
|                               | Sibi         | 11.3                                                                           | 118                | 51.5                                        | 46.1                                                                             | 26                 | 17.6                                    | 144                |
|                               | Zhob         | 10.3                                                                           | 226                | (70.6)                                      | (65.5)                                                                           | 44                 | 19.2                                    | 270                |
|                               | Nasirabad    | 12.9                                                                           | 360                | 42.5                                        | 38.1                                                                             | 67                 | 16.9                                    | 428                |
|                               | Makran       | 3.0                                                                            | 137                | (*)                                         | (*)                                                                              | 9                  | 4.6                                     | 146                |
| <b>Area</b>                   | Urban        | 12.9                                                                           | 374                | 73.7                                        | 73.3                                                                             | 96                 | 25.2                                    | 470                |
|                               | Rural        | 10.5                                                                           | 1,311              | 55.7                                        | 52.7                                                                             | 325                | 18.9                                    | 1,636              |
| <b>Mother's education</b>     | None         | 10.7                                                                           | 1,412              | 58.5                                        | 54.6                                                                             | 330                | 19.0                                    | 1,742              |
|                               | Primary      | 19.3                                                                           | 81                 | (65.6)                                      | (70.5)                                                                           | 27                 | 32.0                                    | 108                |
|                               | Middle       | (7.7)                                                                          | 46                 | (*)                                         | (*)                                                                              | 13                 | 18.4                                    | 59                 |
|                               | Matric       | 14.7                                                                           | 86                 | (*)                                         | (*)                                                                              | 21                 | 22.0                                    | 107                |
| <b>Wealth index quintiles</b> | Higher       | 4.6                                                                            | 55                 | (73.4)                                      | (81.9)                                                                           | 30                 | 31.7                                    | 85                 |
|                               | Poorest      | 9.4                                                                            | 332                | 71.4                                        | 65.6                                                                             | 82                 | 20.6                                    | 415                |
|                               | Second       | 9.1                                                                            | 370                | 57.0                                        | 57.1                                                                             | 73                 | 17.0                                    | 442                |
|                               | Middle       | 12.3                                                                           | 367                | 50.4                                        | 39.6                                                                             | 77                 | 17.1                                    | 444                |
|                               | Fourth       | 6.3                                                                            | 311                | 43.8                                        | 41.9                                                                             | 71                 | 12.9                                    | 382                |
|                               | Richest      | 18.4                                                                           | 305                | 69.0                                        | 72.9                                                                             | 118                | 33.6                                    | 423                |
| <b>Total</b>                  |              | 11.0                                                                           | 1,685              | 59.8                                        | 57.4                                                                             | 421                | 20.3                                    | 2,106              |

Note 1: Information of 5 children 6-23 months whose mother had education in Madrassa is not shown.

Note 2: Figures shown in parenthesis are based on denominators of 25-49 un-weighted cases

Note 3: Figures shown by an (\*) are based on denominators of 24 un-weighted cases and less.

[1] MICS indicator 2.15

[2] MICS indicator 2.13

61. Among currently breastfeeding children 6-23 months, only 11 percent were meeting the minimum meals frequency criteria number of times and this proportion was slightly higher among males (12 percent) compared to females (10 percent). Among non-breastfeeding children, nearly six out of every ten children were receiving solid, semi-solid and soft foods or milk feeds 4 times or more. The proportion of those who were receiving milk feeds at least 2 times was slightly higher (60 percent). The feeding practices vary by age of child, region, mother's education and wealth quintiles but do not show any specific pattern except for urban-rural residence. One would expect that with increase in the age of the currently breastfed as well as non-breastfed child, use of solid, semi-solid and soft food

would also increase but this pattern does not seem to be clearly emerging in Balochistan, and needs further probing and in-depth analysis.

## **5.6 Bottle feeding**

62. The continued practice of bottle-feeding is a concern because of the possible contamination due to unsafe water and lack of hygiene in preparing feed. Table NU.7 shows that bottle-feeding is quite prevalent in Balochistan. Overall, more than one-third (36 percent) of children age 0-23 months are fed with bottle and nipple. The practice of bottle feeding is common among children <2years in all age brackets: 29 percent in–under 6 months, 39 percent in age group 6-11 months and 38 percent of children aged 12-23 months. Bottle feeding is found more common in Sibi (51 percent), Quetta and Makran regions (46 percent each) and is lowest in Nasirabad region (18 percent). The bottle feeding practice is also high in urban (41 percent) compared to rural areas (35 percent). Women with some education are more likely to bottle feed their children compared to those with no education (35 percent). Women in two richest quintiles are also more like to bottle feed their young children than those in the two poorest quintiles.



**Table NU.7: Bottle feeding**  
**Percentage of children age 0-23 months who were fed with a bottle with a nipple during the previous day,**  
**Balochistan Province, Pakistan, 2010**

| <b>Background characteristics</b> |              | Percentage of children age<br>0-23 months fed with a<br>bottle with a nipple [1] | Number of<br>children age 0-23<br>months: |
|-----------------------------------|--------------|----------------------------------------------------------------------------------|-------------------------------------------|
| <b>Sex</b>                        | Male         | 37.1                                                                             | 1,477                                     |
|                                   | Female       | 34.8                                                                             | 1,379                                     |
| <b>Age</b>                        | 0-5 months   | 29.0                                                                             | 749                                       |
|                                   | 6-11 months  | 38.7                                                                             | 613                                       |
|                                   | 12-23 months | 38.4                                                                             | 1,493                                     |
| <b>Region</b>                     | Quetta       | 45.6                                                                             | 875                                       |
|                                   | Kalat        | 41.3                                                                             | 639                                       |
|                                   | Sibi         | 50.5                                                                             | 170                                       |
|                                   | Zhob         | 20.7                                                                             | 395                                       |
|                                   | Nasirabad    | 17.9                                                                             | 567                                       |
|                                   | Makran       | 46.4                                                                             | 209                                       |
| <b>Area</b>                       | Urban        | 40.7                                                                             | 653                                       |
|                                   | Rural        | 34.7                                                                             | 2,202                                     |
| <b>Mother's education</b>         | None         | 34.7                                                                             | 2,345                                     |
|                                   | Primary      | 41.3                                                                             | 152                                       |
|                                   | Middle       | 40.9                                                                             | 83                                        |
|                                   | Matric       | 37.7                                                                             | 148                                       |
|                                   | Higher       | 49.0                                                                             | 121                                       |
| <b>Wealth index quintiles</b>     | Poorest      | 31.4                                                                             | 572                                       |
|                                   | Second       | 31.1                                                                             | 608                                       |
|                                   | Middle       | 37.0                                                                             | 565                                       |
|                                   | Fourth       | 37.4                                                                             | 541                                       |
|                                   | Richest      | 43.7                                                                             | 569                                       |
| <b>Total</b>                      |              | 36.0                                                                             | 2,855                                     |

[1] MICS indicator 2.11

Note: 7 number of cases with mother's education as Preschool or Madrassa are not shown

## 5.7 Salt iodization

63. Iodine Deficiency Disorders (IDD) is the world's leading cause of preventable mental retardation and impaired psychomotor development in young children. In its most extreme form, iodine deficiency causes cretinism. It also increases the risks of stillbirth and miscarriage in pregnant women. Iodine deficiency is most commonly and visibly associated with goitre. IDD takes its greatest toll in impaired mental growth and development, contributing in turn to poor school performance, reduced intellectual ability, and impaired work performance. The international goal was to achieve sustainable elimination of iodine deficiency by 2005 and the indicator was the percentage of households consuming adequately iodized salt ( $\geq 15$  parts per million).

64. In Pakistan iodine deficiency is a serious public health problem. According to UNICEF (1998)<sup>4</sup> around 50 million people were suffering from iodine deficiency, 6.5 million of whom were facing severe type of deficiency. A relatively recent global report on vitamin and mineral deficiency in children estimates that in Pakistan on average for 2000-2007 period only 17 percent households were consuming adequately iodised salt and nearly 64 percent school aged children were iodine deficient (Global Report, 2009<sup>5</sup>). According to the literature reviewed by Khan up to 90 percent population of hilly areas of Khyber Pakhtoon Khwa, Azad Jammu and Kashmir (AJK) and Northern Areas and numerous pockets of population in Punjab were iodine deficient. Over a third of women of reproductive age and children less than five years of age were suffering from severe iodine deficiency (Khan, 2008<sup>6</sup>).

65. In Pakistan, the Iodine Deficiency Program was started in 1994 as a joint effort of the Government, UNICEF and Population Services International (PSI). Under this program, public support was harnessed through generating awareness about iodine deficiency and its health impacts, by utilizing print, electronic and inter-personal communication channels; encouraging salt producers to iodize salt; and involving doctors, teachers and opinion leaders to sensitise people about iodine deficiency and its implications.

66. A national strategic plan was developed and approved by the Government of Pakistan under the Five Year Plan (2005-2011) The plan envisages universal availability of iodized salt by the year 2011 to reduce the prevalence of Iodine Deficiency Disorders in northern endemic areas from 60 percent to 15 percent during the plan period. The plan involves private sector for import, distribution and utilization of iodine (KIO<sub>3</sub>); promotes legislation and quality control through provincial governments; and formalizes national coalition on iodine deficiency control. UNICEF continues to provide the substance KIO<sub>3</sub> (iodine) until “arrangements for its import” are in place (Khan, 2008).

67. Table NU.8 shows that cooking salt was tested for iodine content in 96 percent households by using salt testing kits while in 2 percent household salt was not available at the time of survey. Testing revealed that in only 10 percent households, cooking salt contained 15 parts per million (ppm) or more of iodine. Use of iodized salt was found highest in Makran region to the tune of 24.7 percent households (see figure NU.3) followed by those in the urban areas (17.4 percent) and in the households falling in the richest quintile (16.7 percent).

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<sup>4</sup> United Nations Children Fund (UNICEF). 1998. *The State of the World's Children*. Oxford University Press, New York.

<sup>5</sup> Investing in the future: A united call to action on vitamin and mineral deficiencies. Retrieved from [www.unitedcalltoaction.org](http://www.unitedcalltoaction.org)

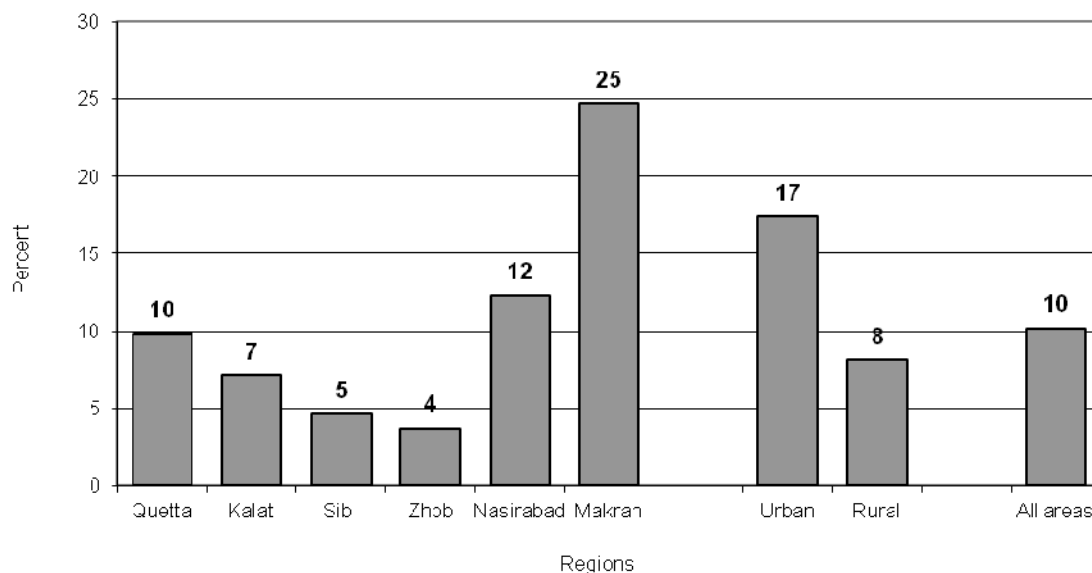
<sup>6</sup> Khan, Mehwish. 2008. The Iodine deficiency in Pakistan. Retrieved from (<http://socialmarketing.wetpaint.com>) on January 23, 2011.

**Table NU.8: Iodized salt consumption**  
**Percent distribution of households by consumption of iodized salt, Balochistan Province, Pakistan, 2010**

|                               |           | Percent of households in which salt was tested | Number of households | Percent of households with salt test result |                   |                |             | Total | Number of households in which salt was tested or with no salt |
|-------------------------------|-----------|------------------------------------------------|----------------------|---------------------------------------------|-------------------|----------------|-------------|-------|---------------------------------------------------------------|
|                               |           |                                                |                      | Percent of households with no salt          | Not iodized 0 PPM | >0 and <15 PPM | 15+ PPM [1] |       |                                                               |
| <b>Region</b>                 | Quetta    | 95.0                                           | 2,715                | 1.0                                         | 59.9              | 29.3           | 9.8         | 100.0 | 2,605                                                         |
|                               | Kalat     | 95.4                                           | 2,835                | 3.1                                         | 58.0              | 31.7           | 7.1         | 100.0 | 2,791                                                         |
|                               | Sibi      | 98.0                                           | 997                  | 0.7                                         | 61.0              | 33.7           | 4.6         | 100.0 | 984                                                           |
|                               | Zhob      | 96.7                                           | 1,677                | 0.4                                         | 70.7              | 25.2           | 3.7         | 100.0 | 1,629                                                         |
|                               | Nasirabad | 97.6                                           | 1,849                | 1.6                                         | 65.8              | 20.4           | 12.3        | 100.0 | 1,834                                                         |
|                               | Makran    | 95.1                                           | 1,539                | 4.0                                         | 45.4              | 25.8           | 24.7        | 100.0 | 1,524                                                         |
| <b>Area</b>                   | Urban     | 96.1                                           | 2,720                | 1.4                                         | 51.1              | 30.2           | 17.4        | 100.0 | 2,652                                                         |
|                               | Rural     | 96.0                                           | 8,892                | 2.1                                         | 62.8              | 27.1           | 8.1         | 100.0 | 8,715                                                         |
| <b>Wealth index quintiles</b> | Poorest   | 94.6                                           | 2,528                | 3.8                                         | 68.4              | 21.0           | 6.8         | 100.0 | 2,487                                                         |
|                               | Second    | 96.0                                           | 2,402                | 1.8                                         | 63.6              | 26.0           | 8.5         | 100.0 | 2,347                                                         |
|                               | Middle    | 97.0                                           | 2,270                | 0.9                                         | 62.5              | 27.6           | 9.1         | 100.0 | 2,222                                                         |
|                               | Fourth    | 96.3                                           | 2,185                | 1.4                                         | 55.0              | 32.9           | 10.7        | 100.0 | 2,135                                                         |
|                               | Richest   | 96.4                                           | 2,227                | 1.3                                         | 49.4              | 32.6           | 16.7        | 100.0 | 2,177                                                         |
| <b>Total</b>                  |           | 96.0                                           | 11,612               | 1.9                                         | 60.1              | 27.8           | 10.2        | 100.0 | 11,367                                                        |

[1] MICS indicator 2.16

**Figure NU.3: Percentage of households consuming adequately iodized salt, Balochistan Province, Pakistan, 2010**



# VI Child Health

## 6.1 Vaccinations

68. The Millennium Development Goal (MDG) 4 is to reduce child mortality by two thirds between 1990 and 2015. Immunization plays a key part in achieving this goal. Immunizations have saved the lives of millions of children in the three decades since the launch of the Expanded Program on Immunization (EPI) in 1974. Worldwide there are still 27 million children overlooked by routine immunization and as a result, vaccine-preventable diseases cause more than 2 million deaths every year. A World Fit for Children Goal is to ensure full immunization of children under one year of age at 90 percent nationally, with at least 80 percent coverage in every district or equivalent administrative unit.

69. According to UNICEF and WHO guidelines, a child should receive a BCG vaccination to protect against tuberculosis, three doses of DPT to protect against diphtheria, pertussis, and tetanus, four doses of polio vaccine, and a measles vaccination by the age of 12 months. Mothers were asked to provide vaccination cards for children under the age of five. Interviewers copied vaccination information from the cards onto the MICS questionnaire.

70. Overall, 23 percent mothers or caretakers of children <5years stated having vaccination card, but only 4 percent could show to the survey team. The possible reason for such a low response could be due to the cultural pattern that written papers or documents are generally kept by male head of the household who are not usually available at home during the day time. If the child did not have a card, the mother was asked to recall whether or not the child had received each of the vaccinations and, for DPT and Polio, how many times. Table CH.1 shows the percentage of children age 12-23 months who received each of the vaccinations at any time before the survey according to vaccination card, mother's recall and by either source. The last column of Table CH 1 indicates vaccination by 12 months of age. Complete immunization means that the child has received BCG, three doses of polio and DPT vaccines, a shot for measles and vaccinations for hepatitis. The denominator for the table is comprised of children age 12-23 months so that only children who are old enough to be fully vaccinated are counted. For children without vaccination cards, the proportion of vaccinations given before the first birthday is assumed to be the same as for children with vaccination cards.

71. Though, nearly 64 percent children had received at least one vaccination, the overall complete vaccination rate was only 4 percent for those who were vaccinated at any time before the survey and in the age group 12-23 months. This includes both recording from vaccination cards and recall by mothers. The percentage of children, who were fully vaccinated before their first birth day, was only 2 percent. With regard to polio and DPT vaccines, the rate for subsequent doses, showed a declining trend.

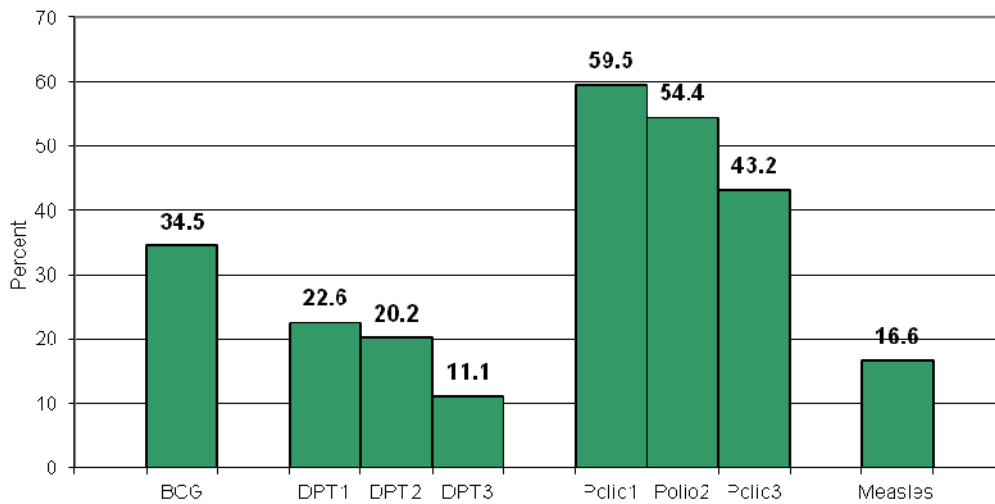
72. Approximately 35 percent of children age 12-23 months received a BCG vaccine by the age of 12 months which is similar to the rate at any time before the survey (BCG is given at birth). The rate of the first dose for Polio 1 was 60 percent which declined to 43 percent for

Polio-3. Similarly, the rate of DPT dropped from 23 percent for DPT-1 to 11 percent for DPT-3 which is lowest of all other vaccinations (Figure CH.1). The coverage for measles vaccine by 12 months was nearly 17 percent. As a result, the percentage of children who had all the recommended vaccinations by their first birthday was only 2 percent and at any age before interview was 4 percent before their second birthday.

**Table CH.1: Vaccinations in first year of life**  
**Percentage of children age 12-23 months immunized against childhood diseases at any time before the survey and before the first birthday, Balochistan Province, Pakistan, 2010**

|                                           | Vaccinated at any time before the survey according to: Vaccination card | Vaccinated at any time before the survey according to: Mother's report | Vaccinated at any time before the survey according to: Either | Vaccinated by 12 months of age |
|-------------------------------------------|-------------------------------------------------------------------------|------------------------------------------------------------------------|---------------------------------------------------------------|--------------------------------|
| BCG [1]                                   | 1.8                                                                     | 32.7                                                                   | 34.5                                                          | 34.5                           |
| Polio 0                                   | 1.1                                                                     | 17.5                                                                   | 18.6                                                          | 18.6                           |
| Polio 1                                   | 1.6                                                                     | 59.8                                                                   | 61.4                                                          | 59.5                           |
| Polio 2                                   | 1.4                                                                     | 55.1                                                                   | 56.5                                                          | 54.4                           |
| Polio 3 [2]                               | 1.1                                                                     | 45.0                                                                   | 46.1                                                          | 43.2                           |
| DPT 1                                     | 1.5                                                                     | 22.0                                                                   | 23.5                                                          | 22.6                           |
| DPT 2                                     | 1.2                                                                     | 20.0                                                                   | 21.2                                                          | 20.2                           |
| DPT 3 [3]                                 | 0.8                                                                     | 11.4                                                                   | 12.2                                                          | 11.1                           |
| Measles [4]                               | 0.9                                                                     | 22.0                                                                   | 22.9                                                          | 16.6                           |
| HepB at birth                             | 0.5                                                                     | 6.2                                                                    | 6.8                                                           | 6.8                            |
| HepB 1                                    | 1.0                                                                     | 16.5                                                                   | 17.5                                                          | 16.6                           |
| HepB 2                                    | 0.9                                                                     | 12.9                                                                   | 13.8                                                          | 13.0                           |
| HepB 3 [5]                                | 0.8                                                                     | 6.0                                                                    | 6.7                                                           | 6.1                            |
| All vaccinations                          | 0.5                                                                     | 3.6                                                                    | 4.1                                                           | 2.1                            |
| No vaccinations                           | 0.0                                                                     | 36.3                                                                   | 36.3                                                          | 36.3                           |
| Number of children age 12-23 months       | 1,493                                                                   | 1,493                                                                  | 1,493                                                         | 1,493                          |
| [1] MICS indicator 3.1                    |                                                                         |                                                                        |                                                               |                                |
| [2] MICS indicator 3.2                    |                                                                         |                                                                        |                                                               |                                |
| [3] MICS indicator 3.3                    |                                                                         |                                                                        |                                                               |                                |
| [4] MICS indicator 3.4; MDG indicator 4.3 |                                                                         |                                                                        |                                                               |                                |
| [5] MICS indicator 3.5                    |                                                                         |                                                                        |                                                               |                                |

**Figure CH.1: Percentage of children aged 12-23 months who received the recommended vaccinations by 12 months, Balochistan Province, Pakistan, 2010**



73. Target children whose immunization status under the MICS survey was to be reviewed were in the age group 12-59 months and their vaccination status was to determine while they were at age 12-23 months. Hepatitis B vaccine as component of pentavalent vaccine was introduced somewhere in 2008 in Balochistan; hence majority of target children received Hep B vaccine and not the pentavalent vaccine. Approximately 17 percent of children age 12-23 months had received the first dose of Hepatitis B vaccine (Table CH.1). As with other vaccination series, the proportion receiving the subsequent dose declined to 13 percent for the second and 6 percent for the third dose.

74. Table CH.2 shows vaccination coverage rates among children 12-23 months by background characteristics. The figures indicate children receiving the vaccinations at any time up to the date of the survey, and are based on information from both the vaccination cards and mothers'/caretakers' recall. Overall, complete immunization was slightly higher for female children. Highest rate of complete immunization was noted in Makran region (7 percent) and lowest in Zhob region (0.5 percent). Children in urban areas were more likely to receive complete immunisation compared to rural areas (10.4 versus 2.4percent). Similarly, mother's education and their economic status are positively related to improved levels of complete immunization of children.

75. Overall, 36 percent children at age less than 24 months had not received any vaccination in Balochistan. The proportion of such children was highest in Sibi (56 percent) and lowest in Makran region (19 percent).

**Table CH.2: Vaccinations by background characteristics**  
**Percentage of children age 12-23 months currently vaccinated against childhood diseases, Balochistan Province, Pakistan, 2010**

|                        |           | Percentage of children who received: |                |         |         |         |        |        |        |         |               |        |        |        |        |        | Percentage with vaccination card seen | Number of children age 12-23 months |
|------------------------|-----------|--------------------------------------|----------------|---------|---------|---------|--------|--------|--------|---------|---------------|--------|--------|--------|--------|--------|---------------------------------------|-------------------------------------|
|                        |           | BCG                                  | Polio at birth | Polio 1 | Polio 2 | Polio 3 | DPT 1  | DPT 2  | DPT 3  | Measles | HepB at birth | HepB 1 | HepB 2 | HepB 3 | None   | All    |                                       |                                     |
| Sex                    | Male      | 35.0                                 | 18.2           | 61.5    | 56.7    | 45.9    | 22.1   | 19.9   | 12.2   | 22.8    | 5.8           | 15.7   | 11.6   | 5.3    | 36.3   | 3.5    | 2.6                                   | 776                                 |
|                        | Female    | 33.9                                 | 18.9           | 61.3    | 56.2    | 46.3    | 24.9   | 22.6   | 12.2   | 23.0    | 7.9           | 19.5   | 16.3   | 8.2    | 36.3   | 4.8    | 1.6                                   | 717                                 |
| Region                 | Quetta    | 28.5                                 | 13.5           | 54.2    | 52.9    | 49.4    | 17.2   | 14.0   | 6.4    | 18.0    | 4.2           | 13.1   | 10.6   | 4.6    | 43.6   | 3.5    | 3.3                                   | 446                                 |
|                        | Kalat     | 35.1                                 | 15.0           | 67.7    | 60.4    | 42.6    | 26.9   | 24.2   | 13.4   | 27.5    | 6.7           | 20.2   | 13.7   | 7.6    | 31.1   | 4.4    | 1.1                                   | 325                                 |
|                        | Sibi      | 13.7                                 | 24.8           | 42.5    | 37.4    | 25.5    | 6.4    | 5.5    | 3.9    | 10.4    | 2.6           | 5.1    | 4.1    | 3.0    | 56.2   | 2.2    | 3.6                                   | 118                                 |
|                        | Zhob      | 18.6                                 | 14.2           | 70.1    | 55.3    | 46.0    | 5.8    | 3.5    | 3.1    | 12.8    | 0.7           | 3.7    | 1.9    | 1.5    | 27.2   | 0.5    | 1.6                                   | 203                                 |
|                        | Nasirabad | 45.7                                 | 30.0           | 63.0    | 62.3    | 57.2    | 34.6   | 32.8   | 21.8   | 21.6    | 14.2          | 25.2   | 23.5   | 10.0   | 35.9   | 6.7    | 2.0                                   | 288                                 |
|                        | Makran    | 78.0                                 | 21.1           | 71.8    | 67.1    | 36.6    | 59.3   | 59.3   | 31.4   | 62.0    | 13.5          | 46.8   | 34.5   | 18.2   | 19.0   | 7.1    | 0.0                                   | 114                                 |
| Area                   | Urban     | 52.2                                 | 26.0           | 67.9    | 63.8    | 54.3    | 40.1   | 36.7   | 24.5   | 33.9    | 9.8           | 30.0   | 25.7   | 14.5   | 28.4   | 10.4   | 7.3                                   | 328                                 |
|                        | Rural     | 29.4                                 | 16.5           | 59.6    | 54.4    | 43.8    | 18.9   | 16.9   | 8.8    | 19.9    | 6.0           | 14.2   | 10.7   | 4.7    | 38.5   | 2.4    | 0.7                                   | 1,166                               |
| Mother's education     | None      | 30.9                                 | 17.8           | 61.3    | 55.8    | 45.1    | 19.9   | 17.9   | 9.1    | 19.4    | 5.7           | 14.3   | 11.0   | 4.8    | 36.6   | 2.9    | 1.8                                   | 1,238                               |
|                        | Primary   | 43.1                                 | 20.4           | 60.9    | 58.2    | 49.5    | 31.0   | 28.9   | 23.3   | 31.4    | 3.9           | 28.5   | 26.1   | 15.2   | 38.6   | 9.9    | 2.9                                   | 84                                  |
|                        | Middle    | (37.5)                               | (24.9)         | (56.9)  | (55.0)  | (47.3)  | (40.8) | (36.5) | (26.0) | (32.7)  | (7.0)         | (33.4) | (30.1) | (19.4) | (41.9) | (11.7) | (7.2)                                 | 42                                  |
|                        | Matric    | 64.9                                 | 21.4           | 63.4    | 66.7    | 50.6    | 47.6   | 45.1   | 32.7   | 44.2    | 13.8          | 37.8   | 34.2   | 15.4   | 27.8   | 8.2    | 2.9                                   | 71                                  |
|                        | Higher    | (56.8)                               | (25.8)         | (63.1)  | (55.8)  | (53.7)  | (45.1) | (40.2) | (27.1) | (49.7)  | (23.3)        | (35.4) | (18.9) | (14.1) | (33.4) | (10.3) | (3.7)                                 | 56                                  |
| Wealth index quintiles | Poorest   | 21.8                                 | 8.9            | 65.9    | 56.2    | 39.7    | 13.0   | 12.0   | 3.0    | 17.5    | 3.5           | 7.6    | 4.4    | 0.8    | 33.2   | 0.6    | 0.0                                   | 308                                 |
|                        | Second    | 34.2                                 | 16.3           | 61.8    | 59.4    | 48.4    | 19.2   | 17.3   | 10.8   | 17.8    | 7.5           | 16.8   | 13.2   | 4.2    | 35.8   | 2.0    | 0.8                                   | 281                                 |
|                        | Middle    | 28.3                                 | 18.6           | 51.1    | 46.0    | 37.2    | 20.6   | 19.1   | 11.8   | 22.3    | 8.5           | 16.4   | 12.7   | 7.5    | 47.2   | 4.4    | 0.5                                   | 311                                 |
|                        | Fourth    | 39.4                                 | 22.7           | 63.1    | 58.8    | 50.1    | 29.0   | 25.8   | 17.4   | 25.2    | 6.0           | 21.0   | 17.2   | 8.3    | 34.6   | 4.9    | 2.4                                   | 291                                 |
|                        | Richest   | 48.8                                 | 26.6           | 65.4    | 62.4    | 55.3    | 35.9   | 32.1   | 18.4   | 31.7    | 8.6           | 26.5   | 22.2   | 12.9   | 30.4   | 8.7    | 6.9                                   | 302                                 |
| <b>Total</b>           |           | 34.5                                 | 18.6           | 61.4    | 56.5    | 46.1    | 23.5   | 21.2   | 12.2   | 22.9    | 6.8           | 17.5   | 13.8   | 6.7    | 36.3   | 4.1    | 2.1                                   | 1,493                               |

Note 1: Information of two children whose mother had Madrassa education not shown.

Note 2: Figures shown in parenthesis are based on denominators of 25-49 cases.

## **6.2 Neonatal Tetanus Protection**

76. One of the MDGs is to reduce by three quarters the maternal mortality ratio, with one strategy to eliminate maternal tetanus. In addition, another goal is to reduce the incidence of neonatal tetanus to less than 1 case of neonatal tetanus per 1000 live births in every district. A World Fit for Children Goal is to eliminate maternal and neonatal tetanus by 2005.

77. Prevention of maternal and neonatal tetanus is to assure that all pregnant women receive at least two doses of tetanus toxoid vaccine. However, if women have not received two doses of the vaccine during the pregnancy, they (and their newborn) are also considered to be protected if the following conditions are met:

- Received at least two doses of tetanus toxoid, the last within the prior 3 years;
- Received at least 3 doses, the last within the prior 5 years;
- Received at least 4 doses, the last within 10 years;
- Received at least 5 doses during lifetime.

78. Table CH.3 shows the protection status from tetanus of women who have had a live birth within the last 2 years. Figure CH.2 shows the protection of women against neonatal tetanus by major background characteristics. Overall 17 percent women were found to be protected against tetanus in Balochistan. Geographically, Makran region was leading, at 34 percent while Sibi region lagged behind the others at 8 percent of women having protection from tetanus. Urban women were nearly thrice (33 percent) more likely to get TT protection compared to their counterparts in rural areas (12 percent). Similarly, educated women and those with higher means were more likely to seek TT protection compared to uneducated and poor women.



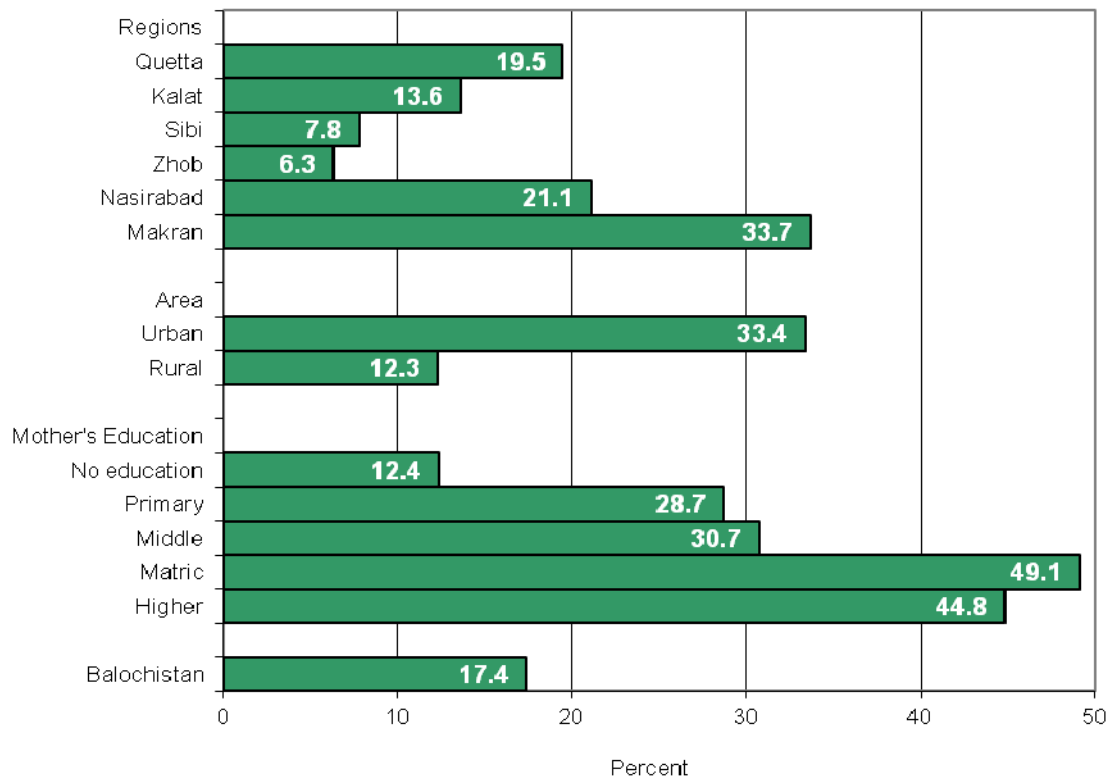
**Table CH.3: Neonatal tetanus protection**  
**Percentage of ever married women age 15-49 years with a live birth in the last 2 years protected against neonatal tetanus, Balochistan Province, Pakistan, 2010**

|                        |           | Percentage of women who received at least 2 doses during last pregnancy | Percentage of women who did not receive two or more doses during last pregnancy but received: |                                        |                                         |                                 | Protected against tetanus [1] | Number of women with a live birth in the last 2 years |
|------------------------|-----------|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----------------------------------------|-----------------------------------------|---------------------------------|-------------------------------|-------------------------------------------------------|
|                        |           |                                                                         | 2 doses, the last within prior 3 years                                                        | 3 doses, the last within prior 5 years | 4 doses, the last within prior 10 years | 5 or more doses during lifetime |                               |                                                       |
| Area                   | Urban     | 27.4                                                                    | 4.5                                                                                           | 0.4                                    | 0.7                                     | 0.3                             | 33.4                          | 602                                                   |
|                        | Rural     | 10.4                                                                    | 1.3                                                                                           | 0.2                                    | 0.1                                     | 0.3                             | 12.3                          | 1,889                                                 |
| Region                 | Quetta    | 15.9                                                                    | 3.1                                                                                           | 0.3                                    | 0.2                                     | 0.0                             | 19.5                          | 792                                                   |
|                        | Kalat     | 12.0                                                                    | 1.4                                                                                           | 0.0                                    | 0.1                                     | 0.1                             | 13.6                          | 565                                                   |
|                        | Sibi      | 7.3                                                                     | .5                                                                                            | 0.0                                    | 0.0                                     | 0.0                             | 7.8                           | 166                                                   |
|                        | Zhob      | 4.6                                                                     | 1.1                                                                                           | 0.4                                    | 0.0                                     | 0.3                             | 6.3                           | 286                                                   |
|                        | Nasirabad | 19.7                                                                    | 1.4                                                                                           | 0.0                                    | 0.0                                     | 0.0                             | 21.1                          | 476                                                   |
|                        | Makran    | 23.3                                                                    | 4.0                                                                                           | 1.0                                    | 2.3                                     | 3.1                             | 33.7                          | 207                                                   |
| Education              | None      | 10.5                                                                    | 1.3                                                                                           | 0.2                                    | 0.1                                     | 0.3                             | 12.4                          | 2,019                                                 |
|                        | Primary   | 26.6                                                                    | 2.2                                                                                           | 0.0                                    | 0.0                                     | 0.0                             | 28.7                          | 136                                                   |
|                        | Middle    | 24.8                                                                    | 6.0                                                                                           | 0.0                                    | 0.0                                     | 0.0                             | 30.7                          | 73                                                    |
|                        | Matric    | 42.5                                                                    | 2.7                                                                                           | 0.0                                    | 2.9                                     | 1.0                             | 49.1                          | 140                                                   |
| Wealth index quintiles | Higher    | 30.3                                                                    | 12.3                                                                                          | 1.2                                    | 0.9                                     | 0.0                             | 44.8                          | 117                                                   |
|                        | Poorest   | 6.9                                                                     | .7                                                                                            | 0.0                                    | 0.0                                     | 0.0                             | 7.6                           | 464                                                   |
|                        | Second    | 9.4                                                                     | 1.0                                                                                           | 0.0                                    | 0.3                                     | 0.0                             | 10.8                          | 539                                                   |
|                        | Middle    | 9.3                                                                     | 1.1                                                                                           | 0.0                                    | 0.2                                     | 1.2                             | 11.8                          | 485                                                   |
|                        | Fourth    | 15.2                                                                    | 3.0                                                                                           | 0.6                                    | 0.6                                     | 0.2                             | 19.6                          | 490                                                   |
|                        | Richest   | 30.9                                                                    | 4.4                                                                                           | 0.5                                    | 0.3                                     | 0.2                             | 36.3                          | 513                                                   |
| <b>Total</b>           |           | 14.5                                                                    | 2.1                                                                                           | 0.2                                    | 0.3                                     | 0.3                             | 17.4                          | 2,491                                                 |

[1] MICS indicator 3.7

Note: Information for 1 woman with pre-school education and 5 women with Madrassa education not shown.

**Figure CH.2: Percentage of women with a live birth in the last 12 months who are protected against neonatal tetanus, Balochistan Province, Pakistan, 2010**



### 6.3 Oral rehydration treatment

79. Diarrhoea is the second leading cause of death among children under five worldwide. Most diarrhoea-related deaths in children are due to dehydration from loss of large quantities of water and electrolytes from the body in liquid stools. Management of diarrhoea – either through oral rehydration solutions (ORS) or a recommended home fluid (RHF) - can prevent many of these deaths. Preventing dehydration and malnutrition by increasing fluid intake and continuing to feed the child are also important strategies for managing diarrhoea.

80. The world goals are to: 1) reduce by one half deaths due to diarrhoea among children under five by 2010 compared to 2000 (A World Fit for Children); and 2) reduce by two third the mortality rate among children under five by 2015 compared to 1990 (Millennium Development Goals). In addition, the World Fit for Children calls for a reduction in the incidence of diarrhoea by 25 percent.

81. The indicators to monitor include:

- Prevalence of diarrhoea
- Oral rehydration therapy (ORT)
- Home management of diarrhoea
- ORT with continued feeding

82. In the MICS questionnaire, mothers (or caretakers) were asked to report whether their child had had diarrhoea in the two weeks prior to the survey. If so, the mother was asked a series of questions about what the child was given to drink and eat during the episode and whether this was more or less than the child usually ate and drank.

83. Overall, 21 percent of under five children had diarrhoea in the two weeks preceding the survey (Table CH.4). Diarrhoea prevalence was higher in Sibi (44percent) and lowest in Quetta region (14 percent). The peak of diarrhoea prevalence occurred, among children age 12-23 months (28 percent).

84. Table CH.4 also shows the percentage of children receiving various types of recommended liquids during the episode of diarrhoea. Since mothers were able to name more than one type of liquid, the percentages do not necessarily add to 100. About 63 percent children received fluids from ORS packets or pre-packaged ORS fluids and 22 percent received government recommended homemade fluids<sup>7</sup>. Overall, 71 percent of children with diarrhoea received ORS or government recommended home-made fluids, while 29 percent received no treatment. Use of ORT was highest (89 percent) in Makran and surprisingly lowest (52 percent) in Quetta region which is relatively more urbanised. Overall, the ORT use rate was higher in urban (77 percent) than in rural areas (70 percent). The use rate was considerably higher among children of mothers with some education compared to those who had no education. It was also noted that women who were economically better off were more likely to provide ORT treatment to their children compared to the poorest class.

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<sup>7</sup> Comprises water mixed with sugar, common salt and lemon, local language called '*Skanjbeen*'.

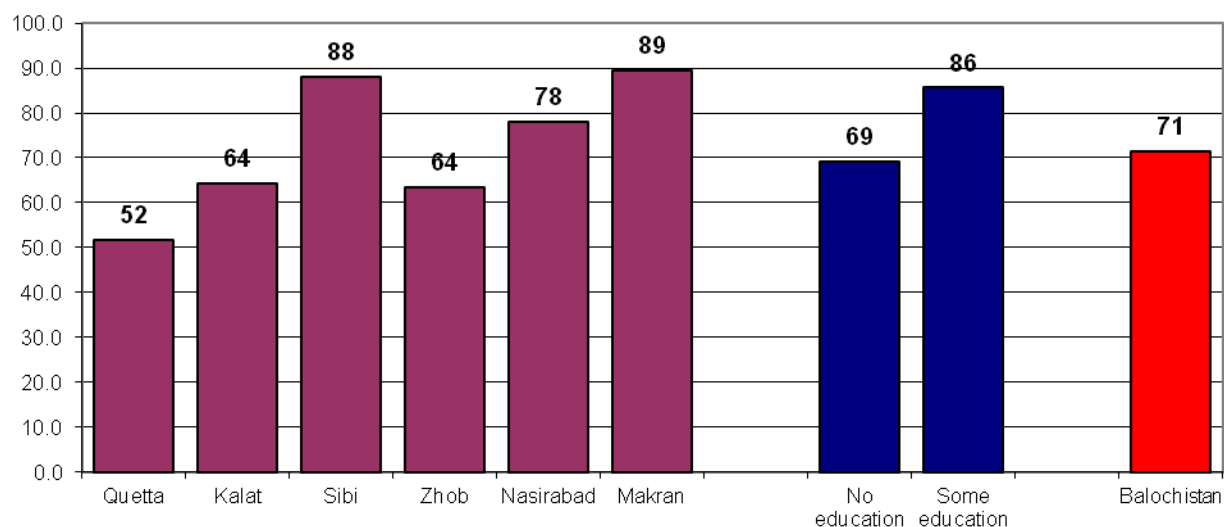
**Table CH.4: Oral rehydration solutions and recommended homemade fluids**  
**Percentage of children age 0-59 months with diarrhea in the last two weeks, and treatment with oral rehydration solutions and recommended homemade fluids, Balochistan Province, Pakistan, 2010**

|                        |                | Had diarrhea in last two weeks | Number of children age 0-59 months | Children with diarrhea who received:                  |                                  |                                       | Number of children aged 0-59 months with diarrhea |
|------------------------|----------------|--------------------------------|------------------------------------|-------------------------------------------------------|----------------------------------|---------------------------------------|---------------------------------------------------|
|                        |                |                                |                                    | ORS (Fluid from ORS packet or pre-packaged ORS fluid) | Govt. recommended homemade fluid | ORS or any recommended homemade fluid |                                                   |
| Sex                    | Male           | 21.0                           | 5,222                              | 63.7                                                  | 20.8                             | 71.7                                  | 1,098                                             |
|                        | Female         | 21.3                           | 4,508                              | 61.7                                                  | 22.7                             | 71.1                                  | 960                                               |
| Region                 | Quetta         | 14.3                           | 2,548                              | 35.8                                                  | 25.7                             | 51.6                                  | 366                                               |
|                        | Kalat          | 23.4                           | 2,054                              | 58.7                                                  | 15.3                             | 64.3                                  | 480                                               |
|                        | Sibi           | 44.0                           | 798                                | 77.0                                                  | 36.8                             | 88.1                                  | 351                                               |
|                        | Zhob           | 15.5                           | 1,608                              | 50.8                                                  | 18.3                             | 63.5                                  | 249                                               |
|                        | Nasirabad      | 22.7                           | 1,743                              | 73.6                                                  | 10.9                             | 78.1                                  | 396                                               |
|                        | Makran         | 22.1                           | 982                                | 87.5                                                  | 27.9                             | 89.4                                  | 217                                               |
| Area                   | Urban          | 15.4                           | 2,028                              | 69.3                                                  | 21.5                             | 76.8                                  | 313                                               |
|                        | Rural          | 22.7                           | 7,706                              | 61.5                                                  | 21.7                             | 70.3                                  | 1,746                                             |
| Age                    | 0-11           | 22.2                           | 1,362                              | 48.1                                                  | 16.4                             | 57.8                                  | 302                                               |
|                        | 12-23          | 27.8                           | 1,493                              | 66.1                                                  | 21.1                             | 72.5                                  | 415                                               |
|                        | 24-35          | 22.2                           | 1,973                              | 66.6                                                  | 24.4                             | 77.5                                  | 438                                               |
|                        | 36-47          | 19.1                           | 2,479                              | 63.5                                                  | 22.9                             | 71.5                                  | 474                                               |
|                        | 48-59          | 17.8                           | 2,426                              | 64.8                                                  | 21.7                             | 73.1                                  | 431                                               |
| Mother's education     | No education   | 21.5                           | 8,338                              | 60.4                                                  | 21.3                             | 69.2                                  | 1,797                                             |
|                        | Some education | 18.9                           | 1,380                              | 78.1                                                  | 23.6                             | 85.6                                  | 261                                               |
| Wealth index quintiles | Poorest        | 23.1                           | 2,033                              | 41.9                                                  | 17.2                             | 50.9                                  | 469                                               |
|                        | Second         | 21.6                           | 2,025                              | 62.5                                                  | 14.9                             | 70.0                                  | 438                                               |
|                        | Middle         | 19.6                           | 2,062                              | 74.3                                                  | 26.7                             | 82.7                                  | 404                                               |
|                        | Fourth         | 23.6                           | 1,868                              | 74.2                                                  | 26.6                             | 83.1                                  | 442                                               |
|                        | Richest        | 17.6                           | 1,746                              | 63.0                                                  | 24.3                             | 72.5                                  | 307                                               |
| <b>Total</b>           |                | 21.2                           | 9,734                              | 62.7                                                  | 21.7                             | 71.3                                  | 2,060                                             |

Note 1: 2 number of children with missing sex are not shown

Note 2: Figures shown in parenthesis are based on denominators of 25-49 cases

**Figure CH.3 Percentage of children aged 0-59 months with diarrhoea who received oral rehydration treatment, Balochistan Province, Pakistan, 2010**



#### **6.4 Liquid and food intake during diarrhoea**

85. Table CH.5 shows that nearly one in every six (16 percent) under-5 children with a diarrhoea episode drank more than usual and over one-third (35 percent) were given the same amount of liquid. However, one-fourth was given less than usual amount of liquid while one in nine children (11 percent) with diarrhoea received much less than what they were taking before diarrhoea. Nearly 5 percent were given no liquid at all. Variations were observed on the basis of residence, area, age of child, mother’s education and wealth index quintiles, however, no specific pattern was visible.

86. Twenty-nine percent children were given the same amount of food during diarrhoea while 14 percent received more than usual. Those who received less or much less than what they were eating before the diarrhoeal episode were 38 percent of the affected children. Overall, 77 percent ate somewhat less, same or more (continued feeding), but 12 percent ate much less or ate almost none.

**Table CH.5: Feeding practices during diarrhoea**  
**Percent distribution of children age 0-59 months with diarrhoea in the last two weeks by amount of liquids and food given during episode of diarrhoea, Balochistan Province, Pakistan 2010**

|                        |                | Drinking practices during diarrhoea: |                                    |                          |                              |                               |                     |                        |            | Eating practices during diarrhoea: |                        |                            |                             |                   |              |                           |            | Number of children aged 0-59 months with diarrhoea |       |
|------------------------|----------------|--------------------------------------|------------------------------------|--------------------------|------------------------------|-------------------------------|---------------------|------------------------|------------|------------------------------------|------------------------|----------------------------|-----------------------------|-------------------|--------------|---------------------------|------------|----------------------------------------------------|-------|
|                        |                | Had diarrhoea in last two weeks      | Number of children age 0-59 months | Given much less to drink | Given somewhat less to drink | Given about the same to drink | Given more to drink | Given nothing to drink | Missing/DK | Total                              | Given much less to eat | Given somewhat less to eat | Given about the same to eat | Given more to eat | Stopped food | Had never been given food | Missing/DK |                                                    | Total |
| Sex                    | Male           | 21.0                                 | 5222                               | 10.7                     | 25.5                         | 34.6                          | 16.1                | 5.3                    | 7.9        | 100.0                              | 9.2                    | 26.7                       | 35.0                        | 13.7              | 4.1          | 3.5                       | 7.8        | 100.0                                              | 1098  |
|                        | Female         | 21.3                                 | 4508                               | 12.2                     | 26.3                         | 36.3                          | 15.3                | 3.7                    | 6.1        | 100.0                              | 8.8                    | 31.4                       | 34.5                        | 13.5              | 1.9          | 3.5                       | 6.4        | 100.0                                              | 960   |
| Region                 | Quetta         | 14.3                                 | 2548                               | 10.0                     | 29.7                         | 47.4                          | 11.7                | .6                     | 0.6        | 100.0                              | 5.2                    | 42.2                       | 46.8                        | 3.4               | 1.1          | .7                        | 0.7        | 100.0                                              | 366   |
|                        | Kalat          | 23.4                                 | 2054                               | 9.4                      | 30.5                         | 34.9                          | 17.2                | 4.6                    | 3.5        | 100.0                              | 9.3                    | 31.0                       | 32.1                        | 16.1              | 3.6          | 3.8                       | 4.2        | 100.0                                              | 480   |
|                        | Sibi           | 44.0                                 | 798                                | 6.1                      | 9.9                          | 23.4                          | 31.6                | 4.8                    | 24.2       | 100.0                              | 4.0                    | 9.3                        | 24.1                        | 33.3              | 4.8          | .3                        | 24.3       | 100.0                                              | 351   |
|                        | Zhob           | 15.5                                 | 1608                               | 10.0                     | 29.4                         | 44.3                          | 14.1                | 1.0                    | 1.3        | 100.0                              | 5.6                    | 29.7                       | 44.5                        | 17.7              | .8           | .0                        | 1.8        | 100.0                                              | 249   |
|                        | Nasirabad      | 22.7                                 | 1743                               | 16.1                     | 26.5                         | 33.4                          | 8.1                 | 7.0                    | 9.0        | 100.0                              | 14.0                   | 27.2                       | 34.6                        | 4.0               | 2.8          | 8.7                       | 8.7        | 100.0                                              | 396   |
|                        | Mekran         | 22.1                                 | 982                                | 19.7                     | 30.4                         | 28.9                          | 9.3                 | 10.3                   | 1.3        | 100.0                              | 18.0                   | 36.4                       | 26.3                        | 5.8               | 5.7          | 7.8                       | 0.0        | 100.0                                              | 217   |
|                        | Area           | Urban                                | 15.4                               | 2028                     | 12.1                         | 32.3                          | 34.6                | 14.7                   | 3.4        | 2.9                                | 100.0                  | 8.7                        | 32.4                        | 37.9              | 10.0         | 5.3                       | 3.2        | 2.5                                                | 100.0 |
|                        | Rural          | 22.7                                 | 7706                               | 11.2                     | 24.8                         | 35.5                          | 15.9                | 4.8                    | 7.8        | 100.0                              | 9.1                    | 28.4                       | 34.1                        | 14.2              | 2.7          | 3.6                       | 7.9        | 100.0                                              | 1746  |
| Age                    | 0-11           | 22.2                                 | 1362                               | 12.1                     | 24.8                         | 44.6                          | 7.4                 | 7.4                    | 3.7        | 100.0                              | 7.4                    | 26.3                       | 44.7                        | 6.5               | .7           | 9.9                       | 4.5        | 100.0                                              | 302   |
|                        | 12-23          | 27.8                                 | 1493                               | 13.8                     | 26.4                         | 32.8                          | 14.9                | 7.0                    | 5.2        | 100.0                              | 11.9                   | 27.1                       | 34.1                        | 11.7              | 4.4          | 5.0                       | 5.8        | 100.0                                              | 415   |
|                        | 24-35          | 22.2                                 | 1973                               | 11.1                     | 25.2                         | 39.8                          | 14.5                | 2.6                    | 6.9        | 100.0                              | 8.2                    | 28.6                       | 38.6                        | 14.4              | 2.6          | 1.5                       | 6.2        | 100.0                                              | 438   |
|                        | 36-47          | 19.1                                 | 2479                               | 10.4                     | 25.2                         | 30.3                          | 21.6                | 3.5                    | 9.0        | 100.0                              | 8.7                    | 30.0                       | 28.7                        | 18.7              | 2.7          | 2.0                       | 9.2        | 100.0                                              | 474   |
|                        | 48-59          | 17.8                                 | 2426                               | 9.9                      | 27.9                         | 32.6                          | 17.1                | 3.4                    | 9.2        | 100.0                              | 8.5                    | 31.8                       | 31.0                        | 13.9              | 4.5          | 1.4                       | 8.9        | 100.0                                              | 431   |
| Mother's Education - 2 | No education   | 21.5                                 | 8354                               | 10.7                     | 25.6                         | 35.4                          | 15.9                | 4.5                    | 7.8        | 100.0                              | 8.4                    | 28.2                       | 34.8                        | 14.0              | 3.2          | 3.3                       | 8.1        | 100.0                                              | 1800  |
|                        | Some education | 18.9                                 | 1380                               | 16.2                     | 28.0                         | 35.3                          | 14.2                | 4.6                    | 1.7        | 100.0                              | 13.0                   | 34.3                       | 33.9                        | 10.9              | 2.5          | 4.8                       | 0.7        | 100.0                                              | 260   |
| Wealth index quintiles | Poorest        | 23.1                                 | 2033                               | 12.5                     | 28.9                         | 40.9                          | 9.1                 | 5.1                    | 3.4        | 100.0                              | 11.1                   | 33.9                       | 35.6                        | 9.6               | 2.2          | 3.4                       | 4.2        | 100.0                                              | 469   |
|                        | Second         | 21.6                                 | 2025                               | 10.7                     | 30.8                         | 36.7                          | 12.6                | 3.1                    | 6.1        | 100.0                              | 7.8                    | 31.5                       | 38.7                        | 10.4              | 1.5          | 4.2                       | 5.9        | 100.0                                              | 438   |
|                        | Middle         | 19.6                                 | 2062                               | 10.9                     | 19.1                         | 32.7                          | 22.7                | 3.8                    | 10.8       | 100.0                              | 8.6                    | 23.7                       | 31.1                        | 19.5              | 3.6          | 3.1                       | 10.6       | 100.0                                              | 404   |
|                        | Fourth         | 23.6                                 | 1868                               | 12.6                     | 22.2                         | 31.5                          | 16.8                | 8.2                    | 8.6        | 100.0                              | 11.9                   | 23.1                       | 30.8                        | 13.8              | 6.1          | 5.2                       | 9.1        | 100.0                                              | 442   |
|                        | Richest        | 17.6                                 | 1746                               | 9.2                      | 28.6                         | 34.1                          | 19.8                | 1.4                    | 6.8        | 100.0                              | 3.9                    | 33.3                       | 38.0                        | 16.2              | 1.7          | .8                        | 5.9        | 100.0                                              | 307   |
| Total                  |                | 21.2                                 | 9734                               | 11.4                     | 25.9                         | 35.4                          | 15.7                | 4.5                    | 7.1        | 100.0                              | 9.0                    | 29.0                       | 34.7                        | 13.6              | 3.1          | 3.5                       | 7.1        | 100.0                                              | 2060  |

## **6.5 Oral rehydration therapy with continued feeding and other treatments**

87. Table CH.6 shows the use of oral rehydration therapy with continued feeding and other treatments during diarrhoea of children age 0-59 months. Overall, two-third (66 percent) of children with diarrhoea were given ORS or increased fluids. Those who received Oral Rehydration Therapy (ORS or recommended homemade fluids or increased fluids) were 74 percent at the aggregate level. However, the proportion of children who received ORT together with continued feeding during diarrhoeal episode declined to 56 percent at the aggregate level. There were significant differences in the management of diarrhoea by background characteristics. The proportion of children who received ORT with continuous feeding was slightly higher among female (58 percent) compared to male (54 percent). The practice was found highest in Zhob (61 percent) and lowest in Quetta and Nasirabad regions (52 percent each). Though no specific pattern emerges on the basis of level of education of mothers, the proportion of children who received ORT together with continuous feeding was considerably higher where the mother had some education (66 percent) compared to those where the mother had no education at all (54 percent). Similarly, children in the richer households were more likely to receive ORT with continuous feeding compared to those who were very poor. Other more common treatments provided during diarrhoea were home remedies/herbal medicines (16 percent) followed by antibiotics (13 percent) and zinc. Nearly 6 percent children were given green tea, honey-water solution among other things which are categorised under “Other”. In 11 percent cases, the type of treatment/ medicines provided during the diarrhoea was not known.

88. Those who had diarrhoea in the two weeks before the survey, nearly 12 percent did not receive any treatment at all. The proportion of such children was highest in Zhob region (18 percent) and lowest in Sibi (5 percent). Women, who had no education, were poor and residing in rural areas, their children were more likely to be deprived of receiving any treatment during diarrhoea.

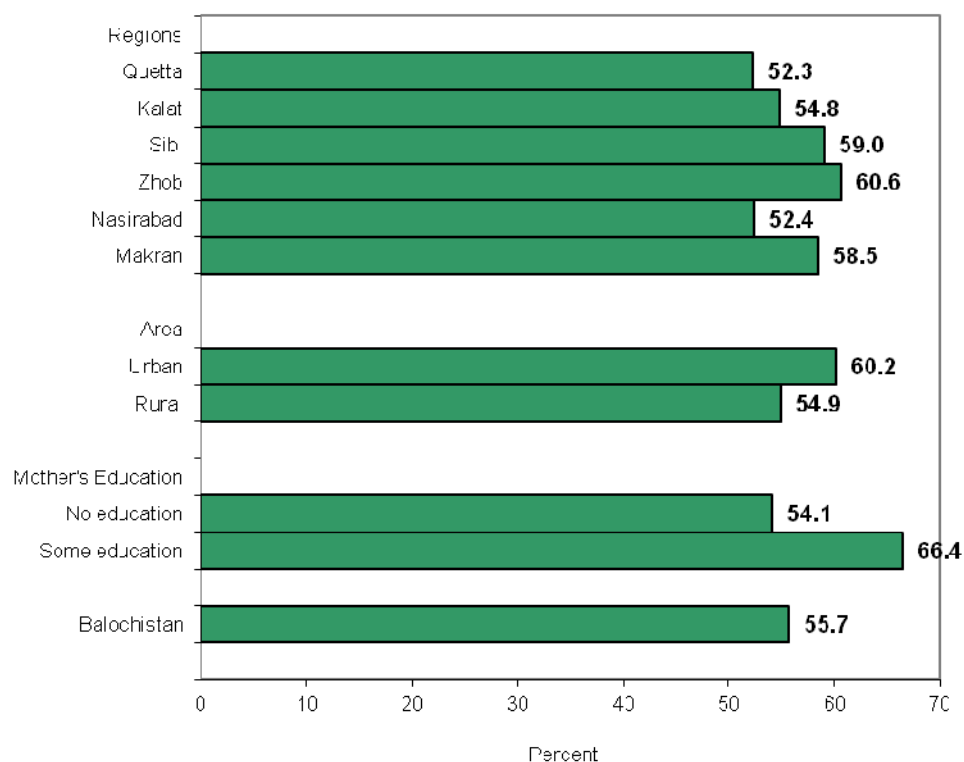
**Table CH.6: Oral rehydration therapy with continued feeding and other treatments**

**Percentage of children age 0-59 months with diarrhea in the last two weeks who received oral rehydration therapy with continued feeding, and percentage of children with diarrhea who received other treatments, Balochistan Province, Pakistan, 2010**

|                               |                | Children with diarrhea who received: |                                                  |                                |                           |                             |                     |                      | Other treatment:       |                       |                           |                    |             |                              |       | Number of children aged 0-59 months with diarrhea |       |
|-------------------------------|----------------|--------------------------------------|--------------------------------------------------|--------------------------------|---------------------------|-----------------------------|---------------------|----------------------|------------------------|-----------------------|---------------------------|--------------------|-------------|------------------------------|-------|---------------------------------------------------|-------|
|                               |                | ORS or increased fluids              | ORT (ORS or homemade fluids or increased fluids) | ORT with continued feeding [1] | Pill or syrup: Antibiotic | Pill or syrup: Antimotility | Pill or syrup: Zinc | Pill or syrup: Other | Pill or syrup: Unknown | Injection: Antibiotic | Injection: Non-antibiotic | Injection: Unknown | Intravenous | Home remedy/ Herbal medicine | Other | Not given any treatment or drug                   |       |
| <b>Sex</b>                    | Male           | 67.4                                 | 73.7                                             | 53.7                           | 11.3                      | 1.6                         | 5.9                 | 3.3                  | 12.1                   | 1.1                   | 0.1                       | 1.1                | 0.3         | 16.4                         | 6.4   | 11.3                                              | 1,098 |
|                               | Female         | 65.3                                 | 73.8                                             | 58.1                           | 14.1                      | 1.6                         | 5.2                 | 2.4                  | 10.7                   | 0.8                   | 0.2                       | 2.0                | 0.6         | 16.3                         | 4.7   | 11.7                                              | 960   |
| <b>Region</b>                 | Quetta         | 41.4                                 | 56.9                                             | 52.3                           | 9.1                       | 1.0                         | 0.4                 | 1.8                  | 7.6                    | 0.8                   | 0.0                       | 1.8                | 0.0         | 24.2                         | 14.9  | 12.7                                              | 366   |
|                               | Kalat          | 64.7                                 | 69.0                                             | 54.8                           | 16.2                      | 2.5                         | 7.2                 | 3.6                  | 21.3                   | 0.6                   | 0.0                       | 2.1                | 0.0         | 28.0                         | 3.2   | 15.8                                              | 480   |
|                               | Sibi           | 80.7                                 | 88.4                                             | 59.0                           | 3.1                       | 0.0                         | 0.9                 | 0.0                  | 2.9                    | 0.2                   | 0.0                       | .3                 | 0.4         | 4.9                          | 2.3   | 5.4                                               | 351   |
|                               | Zhob           | 53.4                                 | 64.7                                             | 60.6                           | 7.7                       | 1.0                         | 2.7                 | 0.6                  | 10.9                   | 0.0                   | 0.5                       | 1.1                | 0.0         | 12.7                         | 7.8   | 18.0                                              | 249   |
|                               | Nasirabad      | 75.2                                 | 78.8                                             | 52.4                           | 20.9                      | 0.9                         | 14.2                | 8.5                  | 8.6                    | 3.0                   | 0.4                       | 1.9                | 2.0         | 12.3                         | 2.4   | 8.4                                               | 396   |
|                               | Makran         | 87.8                                 | 89.4                                             | 58.5                           | 17.3                      | 5.4                         | 5.7                 | 0.3                  | 15.6                   | 0.3                   | 0.0                       | 1.3                | 0.0         | 7.4                          | 3.9   | 7.8                                               | 217   |
| <b>Area</b>                   | Urban          | 72.6                                 | 78.3                                             | 60.2                           | 20.9                      | 3.4                         | 8.3                 | 4.8                  | 17.1                   | 1.9                   | 0.2                       | 3.0                | 1.0         | 15.2                         | 6.1   | 7.3                                               | 313   |
|                               | Rural          | 65.2                                 | 72.8                                             | 54.9                           | 11.2                      | 1.3                         | 5.1                 | 2.6                  | 10.4                   | 0.8                   | 0.1                       | 1.2                | 0.3         | 16.5                         | 5.5   | 12.2                                              | 1,746 |
| <b>Age</b>                    | 0-11           | 50.7                                 | 60.0                                             | 44.4                           | 14.6                      | 0.6                         | 4.0                 | 3.8                  | 15.6                   | 0.6                   | 0.2                       | 1.5                | 1.8         | 21.6                         | 9.9   | 13.2                                              | 302   |
|                               | 12-23          | 69.6                                 | 74.5                                             | 53.8                           | 12.9                      | 1.9                         | 5.3                 | 4.1                  | 12.5                   | 0.6                   | 0.3                       | 1.9                | 0.0         | 14.5                         | 7.9   | 9.9                                               | 415   |
|                               | 24-35          | 70.0                                 | 79.2                                             | 62.6                           | 13.9                      | 1.7                         | 60.2                | 2.0                  | 12.0                   | 1.0                   | 0.3                       | 2.8                | 0.0         | 17.6                         | 4.4   | 9.1                                               | 438   |
|                               | 36-47          | 69.4                                 | 75.7                                             | 59.1                           | 9.7                       | 1.8                         | 6.5                 | 3.5                  | 10.2                   | 1.9                   | 0.0                       | 0.6                | 0.8         | 16.5                         | 5.8   | 12.0                                              | 474   |
|                               | 48-59          | 67.3                                 | 74.5                                             | 54.7                           | 13.3                      | 1.9                         | 5.4                 | 1.4                  | 8.3                    | 0.4                   | 0.0                       | .8                 | 0.0         | 12.9                         | 1.3   | 13.6                                              | 431   |
| <b>Mother's Education</b>     | No education   | 64.3                                 | 71.9                                             | 54.2                           | 11.4                      | 1.0                         | 5.6                 | 2.8                  | 11.7                   | 0.7                   | 0.2                       | 1.4                | 0.4         | 17.0                         | 5.3   | 12.7                                              | 1,800 |
|                               | Some education | 80.5                                 | 85.7                                             | 66.4                           | 21.4                      | 6.0                         | 5.2                 | 3.8                  | 9.9                    | 2.2                   | 0.0                       | 1.8                | 0.9         | 11.7                         | 7.4   | 2.8                                               | 261   |
| <b>Wealth index quintiles</b> | Poorest        | 46.9                                 | 55.4                                             | 44.7                           | 13.2                      | 0.6                         | 7.2                 | 4.5                  | 12.1                   | 0.5                   | 0.0                       | .5                 | 0.2         | 23.4                         | 4.5   | 23.2                                              | 469   |
|                               | Second         | 65.7                                 | 71.6                                             | 56.5                           | 14.0                      | 0.8                         | 5.8                 | 2.4                  | 16.4                   | 0.4                   | 0.1                       | 2.4                | 0.6         | 19.5                         | 5.9   | 12.3                                              | 438   |
|                               | Middle         | 77.4                                 | 84.7                                             | 62.1                           | 13.5                      | 2.6                         | 3.5                 | 0.6                  | 9.4                    | 1.0                   | 0.6                       | 2.3                | 0.1         | 13.5                         | 4.2   | 6.7                                               | 404   |
|                               | Fourth         | 77.1                                 | 84.2                                             | 55.2                           | 10.2                      | 1.3                         | 6.2                 | 3.2                  | 8.4                    | 0.8                   | 0.0                       | .9                 | 0.3         | 9.1                          | 7.7   | 7.3                                               | 442   |
|                               | Richest        | 67.2                                 | 75.0                                             | 63.7                           | 12.5                      | 3.6                         | 4.8                 | 3.8                  | 10.4                   | 2.3                   | 0.0                       | 1.5                | 1.0         | 15.2                         | 5.6   | 4.7                                               | 307   |
| <b>Total</b>                  |                | 66.4                                 | 73.7                                             | 55.7                           | 12.7                      | 1.6                         | 5.6                 | 2.9                  | 11.4                   | 0.9                   | 0.1                       | 1.5                | 0.4         | 16.3                         | 5.6   | 11.5                                              | 2,060 |



**Figure CH.4: Percentage of children aged 0-59 with diarrhoea who received ORT or increased fluids, and continued feeding, Balochistan Province, Pakistan, 2010**



## 6.6 Care seeking and antibiotic treatment of pneumonia

89. Pneumonia is the leading cause of death in children and the use of antibiotics in under-5s with suspected pneumonia is a key intervention. A World Fit for Children Goal is to reduce by one-third the deaths due to acute respiratory infections.

90. Children with suspected pneumonia are those who had an illness with a cough accompanied by rapid or difficult breathing and whose symptoms were NOT due to a problem in the chest and a blocked nose.

91. The indicators to monitor are:

- Prevalence of suspected pneumonia
- Care seeking for suspected pneumonia
- Antibiotic treatment for suspected pneumonia
- Knowledge of the danger signs of pneumonia

92. Table CH.7 presents the prevalence of suspected pneumonia and, if care was sought outside the home, the site of care. Nearly 5 percent of children age 0-59 months were reported to have had symptoms of pneumonia during the two weeks preceding the survey. Of these children, 55 percent were taken to an appropriate health provider, while 17 percent were taken to traditional practitioners and friends /relatives. Overall, 37 percent children with

suspected pneumonia received antibiotics. There was a strong correlation between the education level of the mother as well as the economic status of the household and the appropriate treatment of suspected pneumonia in a child. Similarly, children from urban areas were more likely (74 percent) to get appropriate treatment compared to children living in rural areas (51 percent). Male children were more likely to receive an appropriate (61 percent) than a female (48 percent).

93. Table CH.8 shows a number of health problems in a young child which would require consultation with the health professional. The table also shows percentage of mothers/caretakers knowledge about two danger signs of pneumonia. Mothers' knowledge of the danger signs is an important determinant of care-seeking behaviour. Overall, 14 percent of women knew of the two danger signs of pneumonia – fast and difficult breathing. Highest proportion of women in Sibi region (28 percent) and the lowest in Makran region could recognise two danger signs of pneumonia. Though slight variations in the recognition of the two important danger signs of pneumonia were observed on the basis of level of education, not much difference was visible when women with no education and those who had some education were compared. The most commonly identified symptom for taking a child to a health facility was sickness (56 percent) or getting fever (51 percent). Thirty-two percent of mothers identified fast breathing and 30 percent identified difficult breathing as symptoms for taking child immediately to a health care provider.

**Table CH.7: Care seeking for suspected pneumonia and antibiotic use during suspected pneumonia  
Percentage of children age 0-59 months with suspected pneumonia in the last two weeks who were taken to a health provider and percentage of children who were given antibiotics, Balochistan  
Province, Pakistan, 2010**

Children with suspected pneumonia who were taken to:

|                    |                | Had suspected pneumonia in the last two weeks | Number of children age 0-59 months | Public sector: Government hospital | Public sector: Dispensary | Public sector: Government health center | Public sector: Village health centre | Other public | Private hospital / clinic | Private physician | Private pharmacy | Dispenser / compounder | Other private medical | Relative / Friend | Homeopathic | Hakim | Other | Any appropriate provider [1] | Percentage of children with suspected pneumonia who received antibiotics in the last two weeks [2] | Number of children age 0-59 months with suspected pneumonia in the last two weeks |
|--------------------|----------------|-----------------------------------------------|------------------------------------|------------------------------------|---------------------------|-----------------------------------------|--------------------------------------|--------------|---------------------------|-------------------|------------------|------------------------|-----------------------|-------------------|-------------|-------|-------|------------------------------|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Sex                | Male           | 4.4                                           | 5222                               | 30.1                               | 3.4                       | 1.4                                     | 2.2                                  | 0.2          | 12.5                      | 14.4              | 0.0              | 0.0                    | 0.0                   | 7.7               | 0.0         | 7.0   | 0.9   | 61.1                         | 36.9                                                                                               | 227                                                                               |
|                    | Female         | 4.6                                           | 4508                               | 27.1                               | 8.7                       | 0.0                                     | 1.5                                  | 0.0          | 8.2                       | 10.2              | 1.2              | 0.3                    | 0.0                   | 10.7              | 0.8         | 7.2   | 0.4   | 48.1                         | 37.8                                                                                               | 207                                                                               |
|                    | Missing        | 0.0                                           | 4                                  | .                                  | .                         | .                                       | .                                    | .            | .                         | .                 | .                | .                      | .                     | .                 | .           | .     | .     | .                            | .                                                                                                  | .                                                                                 |
| Region             | Quetta         | 4.1                                           | 2548                               | 22.1                               | 15.1                      | 0.0                                     | 0.8                                  | 0.0          | 8.1                       | 7.6               | 1.4              | 0.0                    | 0.0                   | 2.4               | 1.6         | 0.0   | 1.5   | 40.1                         | 37.3                                                                                               | 104                                                                               |
|                    | Kalat          | 7.0                                           | 2054                               | 36.6                               | 4.8                       | 0.0                                     | 2.2                                  | 0.4          | 4.6                       | 7.2               | 0.3              | 0.0                    | 0.0                   | 18.9              | 0.0         | 18.0  | 0.0   | 53.2                         | 36.2                                                                                               | 144                                                                               |
|                    | Sibi           | 2.1                                           | 798                                | 26.1                               | 4.1                       | 0.0                                     | 0.0                                  | 0.0          | 26.5                      | 9.3               | 0.0              | 3.2                    | 0.0                   | 1.3               | 0.0         | 1.3   | 6.7   | 63.2                         | 29.6                                                                                               | 17                                                                                |
|                    | Zhob           | 3.8                                           | 1608                               | 18.8                               | 0.0                       | 1.9                                     | 3.5                                  | 0.0          | 1.5                       | 14.9              | 1.2              | 0.0                    | 0.0                   | 8.8               | 0.0         | 1.9   | 0.0   | 39.4                         | 16.3                                                                                               | 61                                                                                |
|                    | Nasirabad      | 4.6                                           | 1743                               | 26.7                               | 3.0                       | 2.6                                     | 0.0                                  | 0.0          | 29.8                      | 25.2              | 0.0              | 0.0                    | 0.0                   | 2.0               | 0.0         | 0.0   | 0.0   | 84.3                         | 41.6                                                                                               | 79                                                                                |
|                    | Mekran         | 2.9                                           | 982                                | 40.5                               | 0.0                       | 0.0                                     | 6.8                                  | 0.0          | 4.1                       | 17.4              | 0.0              | 0.0                    | 0.0                   | 9.5               | 0.0         | 11.6  | 0.0   | 63.6                         | 80.8                                                                                               | 29                                                                                |
| Area               | Urban          | 3.6                                           | 2028                               | 28.9                               | 5.6                       | 0.0                                     | 0.0                                  | 0.0          | 19.9                      | 28.2              | 0.6              | 0.5                    | 0.0                   | 1.1               | 2.3         | 4.0   | 0.0   | 73.9                         | 52.3                                                                                               | 72                                                                                |
|                    | Rural          | 4.7                                           | 7706                               | 28.6                               | 6.0                       | 0.9                                     | 2.3                                  | 0.1          | 8.6                       | 9.3               | 0.6              | 0.0                    | 0.0                   | 10.8              | 0.0         | 7.7   | 0.8   | 51.1                         | 34.3                                                                                               | 362                                                                               |
| Age                | 0-11           | 5.6                                           | 1362                               | 28.6                               | 5.8                       | 1.5                                     | 2.8                                  | 0.0          | 11.2                      | 22.8              | 0.0              | 0.0                    | 0.0                   | 6.1               | 0.0         | 4.8   | 1.3   | 66.6                         | 32.1                                                                                               | 76                                                                                |
|                    | 12-23          | 4.6                                           | 1493                               | 29.5                               | 4.3                       | 0.0                                     | 2.8                                  | 0.0          | 13.3                      | 11.2              | 0.0              | 0.2                    | 0.0                   | 6.7               | 2.4         | 7.7   | 1.4   | 58.9                         | 39.3                                                                                               | 69                                                                                |
|                    | 24-35          | 3.6                                           | 1973                               | 30.8                               | 3.5                       | 0.0                                     | 1.8                                  | 0.0          | 10.3                      | 13.9              | 0.6              | 0.0                    | 0.0                   | 4.4               | 0.0         | 9.0   | 0.0   | 55.8                         | 39.4                                                                                               | 71                                                                                |
|                    | 36-47          | 4.2                                           | 2479                               | 21.2                               | 5.2                       | 0.9                                     | 1.1                                  | 0.0          | 9.2                       | 8.3               | 2.1              | 0.4                    | 0.0                   | 16.2              | 0.0         | 9.6   | 0.7   | 44.8                         | 24.7                                                                                               | 104                                                                               |
| Mother's education | 48-59          | 4.7                                           | 2426                               | 33.8                               | 9.2                       | 1.0                                     | 1.5                                  | 0.5          | 9.4                       | 9.0               | 0.0              | 0.0                    | 0.0                   | 9.2               | 0.0         | 4.7   | 0.0   | 53.4                         | 49.9                                                                                               | 113                                                                               |
|                    | None           | 4.5                                           | 8338                               | 27.4                               | 6.0                       | 0.9                                     | 1.9                                  | 0.1          | 9.2                       | 12.8              | 0.5              | 0.1                    | 0.0                   | 9.0               | 0.0         | 5.8   | 0.5   | 51.8                         | 35.8                                                                                               | 376                                                                               |
|                    | Some education | 4.2                                           | 1396                               | 44.8                               | 5.2                       | 0.0                                     | 3.4                                  | 0.0          | 20.6                      | 12.1              | 1.7              | 0.0                    | 10.3                  | 0.0               | 1.7         | 15.5  | 1.7   | 70.7                         | 46.5                                                                                               | 58                                                                                |
| Wealth index       | Poorest        | 6.4                                           | 2033                               | 19.9                               | 3.0                       | 0.0                                     | 2.5                                  | 0.0          | 7.3                       | 10.7              | 0.0              | 0.0                    | 0.0                   | 17.5              | 0.0         | 5.5   | 1.3   | 40.7                         | 30.3                                                                                               | 130                                                                               |
|                    | Second         | 5.4                                           | 2025                               | 29.6                               | 8.6                       | 2.1                                     | 0.9                                  | 0.5          | 7.5                       | 8.3               | 0.7              | 0.0                    | 0.0                   | 9.8               | 0.0         | 11.4  | 0.9   | 55.6                         | 29.1                                                                                               | 110                                                                               |

**Table CH.7: Care seeking for suspected pneumonia and antibiotic use during suspected pneumonia**  
**Percentage of children age 0-59 months with suspected pneumonia in the last two weeks who were taken to a health provider and percentage of children who were given antibiotics, Balochistan Province, Pakistan, 2010**

Children with suspected pneumonia who were taken to:

|           |         | Had suspected pneumonia in the last two weeks | Number of children age 0-59 months | Public sector: Government hospital | Public sector: Dispensary | Public sector: Government health center | Public sector: Village health centre | Other public | Private hospital / clinic | Private physician | Private pharmacy | Dispenser / compounder | Other private medical | Relative / Friend | Homeopathic | Hakim | Other | Any appropriate provider [1] | Percentage of children with suspected pneumonia who received antibiotics in the last two weeks [2] | Number of children age 0-59 months with suspected pneumonia in the last two weeks |
|-----------|---------|-----------------------------------------------|------------------------------------|------------------------------------|---------------------------|-----------------------------------------|--------------------------------------|--------------|---------------------------|-------------------|------------------|------------------------|-----------------------|-------------------|-------------|-------|-------|------------------------------|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| quintiles | Middle  | 3.7                                           | 2062                               | 35.5                               | 4.4                       | 1.2                                     | 2.6                                  | 0.0          | 11.8                      | 12.5              | 0.0              | 0.2                    | 0.0                   | 6.6               | 0.0         | 12.9  | 0.0   | 60.5                         | 46.1                                                                                               | 76                                                                                |
|           | Fourth  | 2.9                                           | 1868                               | 27.9                               | 10.3                      | 0.0                                     | 3.7                                  | 0.0          | 8.3                       | 25.8              | 2.7              | 0.0                    | 0.0                   | 2.4               | 0.0         | 1.0   | 0.0   | 60.9                         | 32.6                                                                                               | 54                                                                                |
|           | Richest | 3.7                                           | 1746                               | 37.3                               | 5.3                       | 0.0                                     | 0.0                                  | 0.0          | 21.9                      | 11.7              | 0.6              | 0.6                    | 0.0                   | 0.0               | 2.5         | 1.1   | 0.0   | 70.6                         | 58.9                                                                                               | 65                                                                                |
|           | Total   | 4.5                                           | 9734                               | 28.7                               | 5.9                       | 0.7                                     | 1.9                                  | 0.1          | 10.5                      | 12.4              | 0.6              | 0.1                    | 0.0                   | 9.2               | 0.4         | 7.1   | 0.6   | 54.9                         | 37.3                                                                                               | 434                                                                               |

Note 1: 4 number of children with missing sex are not shown.

Note 2: Figures shown in parenthesis are based on denominators of 25-49 cases.

Note 3: Figures shown by asterisks (\*) are based on denominators of 24 un-weighted cases or less.

[1] MICS indicator 3.9

[2] MICS indicator 3.10

**Table CH.8: Knowledge of the two danger signs of pneumonia**  
**Percentage of mothers and caretakers of children age 0-59 months by symptoms that would cause them to take the child immediately to a health facility, and percentage of mothers who recognize fast and difficult breathing as signs for seeking care immediately, Balochistan Province, Pakistan 2010**

Percentage of mothers/caretakers who think that a child should be taken immediately to a health facility if the child:

|                               |           | Is not able to drink or breastfeed | Becomes sicker | Develops fever | Has fast breathing | Has difficulty breathing | Has blood in stool | Is drinking poorly | Has other symptoms | Mothers/ caretakers who recognize the two danger signs of pneumonia | Number of mothers/ caretakers of children age 0-59 months |
|-------------------------------|-----------|------------------------------------|----------------|----------------|--------------------|--------------------------|--------------------|--------------------|--------------------|---------------------------------------------------------------------|-----------------------------------------------------------|
| <b>Region</b>                 | Quetta    | 19.7                               | 58.3           | 43.1           | 28.0               | 38.2                     | 17.9               | 23.9               | 10.3               | 15.4                                                                | 1,599                                                     |
|                               | Kalat     | 34.7                               | 62.2           | 60.1           | 29.7               | 24.1                     | 18.2               | 20.6               | 8.1                | 11.7                                                                | 1,576                                                     |
|                               | Sibi      | 67.8                               | 67.9           | 55.5           | 57.5               | 49.6                     | 30.9               | 22.7               | 2.7                | 27.7                                                                | 649                                                       |
|                               | Zhob      | 25.5                               | 47.7           | 53.4           | 23.0               | 21.7                     | 17.4               | 15.9               | 6.0                | 11.4                                                                | 1,101                                                     |
|                               | Nasirabad | 34.9                               | 52.6           | 46.3           | 42.5               | 34.6                     | 27.1               | 26.5               | 5.1                | 16.9                                                                | 1,229                                                     |
|                               | Makran    | 13.2                               | 47.6           | 46.8           | 17.0               | 16.6                     | 12.8               | 38.9               | 19.8               | 3.7                                                                 | 753                                                       |
| <b>Area</b>                   | Urban     | 30.3                               | 55.5           | 50.6           | 31.0               | 31.1                     | 19.5               | 23.3               | 9.3                | 13.4                                                                | 1,438                                                     |
|                               | Rural     | 30.7                               | 56.4           | 50.8           | 32.0               | 30.3                     | 20.4               | 24.0               | 8.3                | 14.2                                                                | 5,469                                                     |
| <b>Education</b>              | None      | 31.2                               | 57.1           | 51.3           | 32.1               | 30.1                     | 20.6               | 23.4               | 7.6                | 14.1                                                                | 5,878                                                     |
|                               | Primary   | 29.1                               | 48.9           | 50.0           | 28.5               | 40.2                     | 19.1               | 25.7               | 12.2               | 15.4                                                                | 298                                                       |
|                               | Middle    | 30.1                               | 56.4           | 46.3           | 40.2               | 35.5                     | 17.5               | 20.7               | 9.3                | 16.7                                                                | 155                                                       |
|                               | Matric    | 19.2                               | 56.1           | 46.0           | 25.4               | 22.5                     | 14.7               | 33.5               | 15.5               | 8.3                                                                 | 307                                                       |
|                               | Higher    | 32.3                               | 46.5           | 49.8           | 31.4               | 33.7                     | 22.5               | 23.7               | 14.9               | 16.1                                                                | 258                                                       |
| <b>Wealth index quintiles</b> | Poorest   | 25.0                               | 49.6           | 57.7           | 25.9               | 18.1                     | 13.3               | 19.0               | 6.8                | 8.4                                                                 | 1,455                                                     |
|                               | Second    | 28.0                               | 58.3           | 46.8           | 27.3               | 28.5                     | 20.4               | 22.9               | 9.8                | 11.9                                                                | 1,456                                                     |
|                               | Middle    | 34.2                               | 58.9           | 48.9           | 36.8               | 35.7                     | 26.2               | 29.1               | 7.3                | 16.6                                                                | 1,442                                                     |
|                               | Fourth    | 34.0                               | 56.3           | 52.5           | 35.0               | 35.0                     | 20.9               | 28.0               | 9.8                | 17.3                                                                | 1,324                                                     |
|                               | Richest   | 32.3                               | 58.4           | 47.5           | 34.6               | 36.2                     | 20.3               | 20.3               | 8.9                | 17.0                                                                | 1,230                                                     |
| <b>Total</b>                  |           | 30.6                               | 56.2           | 50.8           | 31.8               | 30.4                     | 20.2               | 23.9               | 8.5                | 14.1                                                                | 6,907                                                     |

Note: 4 number of cases with pre-school education and 8 with Madrassa education not shown.

## 6.7 Solid fuel use

94. More than half of the world population rely on solid fuels (biomass and coal) for their basic energy needs, including cooking and heating (Eva Rehfuss et al, 2006)<sup>8</sup>. Cooking and heating with solid fuels leads to high levels of indoor smoke, a complex mix of health-damaging pollutants. The main problem with the use of solid fuels is products of incomplete combustion, including CO, polyaromatic hydrocarbons, SO<sub>2</sub>, and other toxic elements. Use of solid fuels increases the risks of acute respiratory illness, pneumonia, chronic obstructive lung disease, cancer, and possibly tuberculosis, low birth weight, cataract, and asthma. The primary indicator is the proportion of the population using solid fuels as the primary source of domestic energy for cooking.

95. Table CH.9 shows the percent distribution of household members according to type of cooking fuel used by the households. Nearly three-fourth (72 percent) of sample population was living in households using solid fuel for cooking. Solid fuel consists of coal, charcoal, wood, straw/shrubs/grass, animal dung, and agricultural crops residue. Use of solid fuel was low in urban areas (41 percent), but very high in rural areas (81 percent). One of the major reasons of using solid fuel in rural areas is the non availability of natural gas. The findings show that use of solid fuel was found very common among households in Zhob (92 percent), Makran (90 percent) and Kalat regions (86 percent). It was considerably lower in Sibi (44 percent) and Quetta regions (45 percent). The use of solid fuel was also higher among uneducated (79 percent) and poorest families (100 percent) as compared to those who had higher education (48 percent) or were very rich (20 percent).

96. Wood was the most common solid fuel used in Balochistan. It is important to note that in Balochistan, nearly two-third (63 percent) of the households cooked food in a separate room or in a kitchen and 29 percent elsewhere in the house (see Table CH.10). The use of separate room or kitchen was highest in Quetta region (83 percent) and lowest in Sibi (27 percent). It was also higher in urban (79 percent) than in rural areas (61 percent). The use of kitchen or separate room for cooking was also positively related to education level of head of the household and the wealth quintiles. Solid fuel use alone is a poor proxy for indoor air pollution, since the concentration of the pollutants is different when the same fuel is burnt in different stoves or fires. Use of closed stove with chimney minimizes indoor pollution, while open stove or fire with no chimney or hood means that there is no protection from the harmful effects of solid fuels even if food is cooked in a separate room or a kitchen.

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<sup>8</sup> Eva Rehfuss, Sumi Mehta, and Annette Pruss, 2006. Assessing household Solid Fuel Use: Multiple Implications for Millennium Development Goals. Environment Health Perspectives, Volume 114, Number 3, 2006.

**Table CH.9: Solid fuel use**

**Percent distribution of household members according to type of cooking fuel used by the household, and percentage of household members living in households using solid fuels for cooking, Balochistan Province, Pakistan, 2010**

Percentage of household members in households using:

| Background characteristics  |           | Electricity | Liquefied Petroleum Gas (LPG) | Natural gas | Biogas | Kerosene | Coal | Charcoal | Wood | Straw / Shrubs / Grass | Animal dung | Agricultural crop residue | No food cooked in household | Other | Missing | Total | Solid fuels for cooking [1] | Number of household members |
|-----------------------------|-----------|-------------|-------------------------------|-------------|--------|----------|------|----------|------|------------------------|-------------|---------------------------|-----------------------------|-------|---------|-------|-----------------------------|-----------------------------|
| Region                      | Quetta    | 1.4         | 4.1                           | 48.5        | 0.2    | 0.1      | 0.8  | 3.0      | 36.9 | 3.1                    | 0.9         | 0.3                       | 0.0                         | 0.1   | 0.5     | 100.0 | 45.0                        | 21966                       |
|                             | Kalat     | 3.8         | 1.7                           | 7.2         | 0.2    | 0.1      | 0.7  | 1.7      | 65.3 | 14.9                   | 2.9         | 0.7                       | 0.0                         | 0.0   | 0.7     | 100.0 | 86.2                        | 19510                       |
|                             | Sibi      | 25.0        | 1.4                           | 28.9        | 0.2    | 0.0      | 1.9  | 1.8      | 31.8 | 6.8                    | 1.6         | 0.2                       | 0.0                         | 0.1   | 0.2     | 100.0 | 44.2                        | 8128                        |
|                             | Zhob      | 5.3         | 1.0                           | 0.3         | 0.6    | 0.0      | 2.0  | 2.0      | 79.5 | 7.3                    | 1.0         | 0.2                       | 0.0                         | 0.0   | 0.7     | 100.0 | 92.1                        | 13430                       |
|                             | Nasirabad | 2.7         | 0.1                           | 18.6        | 0.4    | 0.1      | 2.2  | 0.5      | 50.7 | 3.2                    | 20.7        | 0.2                       | 0.0                         | 0.1   | 0.5     | 100.0 | 77.6                        | 15142                       |
|                             | Mekran    | 0.1         | 9.6                           | 0.1         | 0.1    | 0.0      | 0.1  | 0.8      | 82.1 | 4.5                    | 1.9         | 0.5                       | 0.1                         | 0.0   | 0.2     | 100.0 | 89.8                        | 11041                       |
| Area                        | Urban     | 3.1         | 5.7                           | 49.1        | 0.2    | 0.1      | 0.5  | 0.9      | 36.7 | 1.5                    | 1.2         | 0.2                       | 0.0                         | 0.1   | 0.8     | 100.0 | 40.9                        | 20570                       |
|                             | Rural     | 5.2         | 2.0                           | 10.5        | 0.3    | 0.0      | 1.4  | 2.0      | 63.1 | 8.5                    | 6.0         | 0.4                       | 0.0                         | 0.0   | 0.4     | 100.0 | 81.4                        | 68648                       |
| Education of household head | None      | 5.2         | 1.3                           | 13.8        | 0.4    | 0.0      | 1.0  | 1.6      | 60.6 | 9.4                    | 5.8         | 0.4                       | 0.0                         | 0.1   | 0.5     | 100.0 | 78.7                        | 53554                       |
|                             | Primary   | 1.5         | 5.2                           | 22.4        | 0.1    | 0.2      | 0.7  | 1.6      | 56.6 | 5.9                    | 4.8         | 0.1                       | 0.0                         | 0.0   | 0.8     | 100.0 | 69.8                        | 7450                        |
|                             | Middle    | 5.0         | 2.6                           | 24.2        | 0.1    | 0.0      | 2.9  | 3.2      | 51.4 | 3.7                    | 6.1         | 0.3                       | 0.0                         | 0.0   | 0.5     | 100.0 | 67.5                        | 5620                        |
|                             | Matric    | 5.7         | 3.3                           | 23.8        | 0.1    | 0.2      | 2.0  | 3.2      | 55.1 | 2.5                    | 3.0         | 0.6                       | 0.0                         | 0.0   | 0.4     | 100.0 | 66.4                        | 12026                       |
|                             | Higher    | 3.3         | 8.8                           | 39.3        | 0.2    | 0.0      | 0.6  | 0.5      | 43.8 | 1.0                    | 1.8         | 0.2                       | 0.0                         | 0.1   | 0.5     | 100.0 | 47.9                        | 10046                       |
| Wealth index quintiles      | Poorest   | 0.0         | 0.0                           | 0.0         | 0.0    | 0.0      | 0.7  | 1.0      | 71.7 | 18.9                   | 6.9         | 0.5                       | 0.0                         | 0.0   | 0.0     | 100.0 | 99.7                        | 17850                       |
|                             | Second    | 1.4         | 0.1                           | 0.3         | 0.3    | 0.0      | 1.2  | 1.8      | 72.7 | 11.1                   | 10.4        | 0.4                       | 0.0                         | 0.0   | 0.5     | 100.0 | 97.5                        | 17836                       |
|                             | Middle    | 7.3         | 1.1                           | 4.4         | 0.8    | 0.2      | 1.6  | 3.2      | 71.1 | 3.7                    | 5.6         | 0.1                       | 0.0                         | 0.1   | 0.9     | 100.0 | 85.3                        | 17843                       |
|                             | Fourth    | 8.9         | 4.1                           | 28.3        | 0.1    | 0.1      | 1.6  | 2.5      | 51.8 | 0.5                    | 1.2         | 0.5                       | 0.0                         | 0.1   | 0.4     | 100.0 | 58.0                        | 17863                       |
|                             | Richest   | 6.0         | 9.0                           | 63.9        | 0.2    | 0.0      | 0.9  | 0.5      | 17.8 | 0.1                    | 0.3         | 0.4                       | 0.0                         | 0.1   | 0.8     | 100.0 | 20.0                        | 17827                       |
| Total                       |           | 4.7         | 2.9                           | 19.4        | 0.3    | 0.1      | 1.2  | 1.8      | 57.0 | 6.9                    | 4.9         | 0.4                       | 0.0                         | 0.0   | 0.5     | 100.0 | 72.1                        | 89218                       |

[1] MICS indicator 3.11

Note: 99 cases where education of head of the household was Preschool, 25 cases where head of household had education of madrassa and 173 cases where education of head of the households was missing /DK are not shown.

**Table CH.10: Solid fuel use by place of cooking**  
**Percent distribution of household members in households using solid fuels by place of cooking, Balochistan Province, Pakistan, 2010**

|                             |           | Place of cooking:                  |                        |                        |          |       |         | Total | Number of household members in households using solid fuels for cooking |
|-----------------------------|-----------|------------------------------------|------------------------|------------------------|----------|-------|---------|-------|-------------------------------------------------------------------------|
|                             |           | In a separate room used as kitchen | Elsewhere in the house | In a separate building | Outdoors | Other | Missing |       |                                                                         |
| Region                      | Quetta    | 83.3                               | 10.3                   | 0.2                    | 4.1      | 1.1   | 1.1     | 100.0 | 9895                                                                    |
|                             | Kalat     | 70.7                               | 17.8                   | 0.5                    | 8.0      | 0.6   | 2.4     | 100.0 | 16811                                                                   |
|                             | Sibi      | 27.4                               | 72.0                   | 0.0                    | 0.0      | 0.0   | 0.6     | 100.0 | 3592                                                                    |
|                             | Zhob      | 57.9                               | 38.2                   | 0.2                    | 0.7      | 0.4   | 2.6     | 100.0 | 12365                                                                   |
|                             | Nasirabad | 42.4                               | 50.9                   | 1.1                    | 3.6      | 0.1   | 2.0     | 100.0 | 11752                                                                   |
|                             | Mekran    | 73.6                               | 13.4                   | 0.2                    | 9.9      | 1.0   | 2.0     | 100.0 | 9913                                                                    |
| Area                        | Urban     | 79.1                               | 16.3                   | 0.2                    | 2.3      | 0.1   | 2.1     | 100.0 | 8423                                                                    |
|                             | Rural     | 60.6                               | 30.9                   | 0.5                    | 5.5      | 0.6   | 2.0     | 100.0 | 55906                                                                   |
| Education of household head | None      | 57.8                               | 33.1                   | 0.6                    | 5.8      | 0.7   | 2.1     | 100.0 | 42164                                                                   |
|                             | Primary   | 74.7                               | 18.4                   | 0.1                    | 4.4      | 0.3   | 2.1     | 100.0 | 5197                                                                    |
|                             | Middle    | 64.8                               | 26.2                   | 0.1                    | 7.5      | 0.4   | 1.0     | 100.0 | 3796                                                                    |
|                             | Matric    | 70.7                               | 24.4                   | 0.3                    | 2.7      | 0.4   | 1.5     | 100.0 | 7989                                                                    |
|                             | Higher    | 83.2                               | 13.8                   | 0.2                    | 0.6      | 0.5   | 1.7     | 100.0 | 4808                                                                    |
| Wealth index quintiles      | Poorest   | 41.7                               | 40.2                   | 0.8                    | 13.3     | 1.2   | 2.8     | 100.0 | 17802                                                                   |
|                             | Second    | 61.9                               | 31.8                   | 0.6                    | 3.0      | 0.7   | 2.1     | 100.0 | 17388                                                                   |
|                             | Middle    | 67.9                               | 28.4                   | 0.2                    | 1.8      | 0.1   | 1.6     | 100.0 | 15215                                                                   |
|                             | Fourth    | 83.8                               | 14.1                   | 0.1                    | 0.7      | 0.1   | 1.2     | 100.0 | 10366                                                                   |
|                             | Richest   | 93.5                               | 4.4                    | 0.4                    | 0.0      | 0.1   | 1.6     | 100.0 | 3558                                                                    |
| Total                       |           | 63.0                               | 28.9                   | 0.4                    | 5.0      | 0.6   | 2.0     | 100.0 | 64329                                                                   |

**Note: 75 cases where education of head of the household was Preschool, 196 cases where head of household had education of madrassa and 103 cases where education of head of the households was missing /DK are not shown.**



## **6.8 Malaria**

97. Among the four provinces of Pakistan, Balochistan has the highest prevalence of malaria (NIPS, 2008). Malaria contributes to anaemia in children and is a common cause of school absenteeism. Preventive measures, especially the use of mosquito nets treated with insecticide (ITNs), can dramatically reduce malaria morbidity rates among children and elders. In areas where malaria is common, international recommendations suggest treating any fever in children as if it were malaria and immediately giving the child a full course of recommended anti-malarial tablets. Children with severe malaria symptoms, such as fever or convulsions, should be taken to a health facility. Also, children recovering from malaria should be given extra liquids and food and, for younger children, should continue breastfeeding.

## **6.9 Availability of Mosquito Nets**

98. The questionnaire includes questions on the availability and use of bed nets, both at household level and among children under five years of age and pregnant women, as well as anti-malarial treatment, intermittent preventive therapy for malaria, and indoor residual spraying of households. Table CH.11 shows that 9 percent of households in Balochistan had at least one mosquito net of any type. Availability of any kind of mosquito net was more common in the Sibi region with 21 percent households having at least one net, followed by those in Makran region (19 percent). In Nasirabad region, the availability of any type of mosquito net was lowest (3.6 percent). More households in rural areas (10 percent) had mosquito nets of any type compared to urban areas (6.5 percent). Households headed by educated members were relatively more likely to have any kind of net compared to those where head of the household had no education. Similarly, the availability of any kind of net was higher among the households in fourth and fifth wealth quintiles compared to those in the lower three quintiles.

99. The insecticide treated nets (ITN) and long lasting treated nets (LLN) were found in very few households, 2.9 percent and 2.2 percent respectively. The households in Makran region, those having educated household head and in the 4<sup>th</sup> wealth quintile were relatively more likely to have at least one LLNs or an ITN.

**Table CH.11: Household availability of insecticide treated nets**  
**Percentage of households with at least one mosquito net, percentage of households with at least one long-lasting treated net, and percentage of households with at least one insecticide treated net (ITN), Balochistan Province, Pakistan, 2010**

|                             |           | Percentage of households with at least one mosquito net | Percentage of households with at least one long-lasting treated net | Percentage of households with at least one ITN [1] | Number of households |
|-----------------------------|-----------|---------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------|----------------------|
| Region                      | Quetta    | 8.3                                                     | 2.7                                                                 | 3.6                                                | 2,715                |
|                             | Kalat     | 6.1                                                     | 2.7                                                                 | 3.1                                                | 2,835                |
|                             | Sibi      | 20.6                                                    | 0.5                                                                 | 0.8                                                | 997                  |
|                             | Zhob      | 5.4                                                     | 1.2                                                                 | 1.4                                                | 1,677                |
|                             | Nasirabad | 3.6                                                     | 0.9                                                                 | 1.1                                                | 1,849                |
|                             | Makran    | 19.2                                                    | 4.3                                                                 | 6.2                                                | 1,539                |
| Area                        | Urban     | 6.5                                                     | 1.8                                                                 | 2.4                                                | 2,720                |
|                             | Rural     | 9.9                                                     | 2.3                                                                 | 3.0                                                | 8,892                |
| Education of household head | None      | 7.6                                                     | 1.9                                                                 | 2.3                                                | 7,050                |
|                             | Primary   | 5.2                                                     | 0.9                                                                 | 1.4                                                | 884                  |
|                             | Middle    | 11.4                                                    | 3.5                                                                 | 4.0                                                | 702                  |
|                             | Matric    | 12.0                                                    | 3.1                                                                 | 4.0                                                | 1,606                |
|                             | Higher    | 15.1                                                    | 3.0                                                                 | 4.9                                                | 1,349                |
| Wealth index quintiles      | Poorest   | 5.1                                                     | 1.7                                                                 | 2.2                                                | 2,528                |
|                             | Second    | 5.8                                                     | 2.2                                                                 | 2.5                                                | 2,402                |
|                             | Middle    | 9.5                                                     | 1.7                                                                 | 2.5                                                | 2,270                |
|                             | Fourth    | 14.7                                                    | 3.2                                                                 | 4.1                                                | 2,185                |
|                             | Richest   | 11.2                                                    | 2.3                                                                 | 3.2                                                | 2,227                |
| <b>Total</b>                |           | 9.1                                                     | 2.2                                                                 | 2.9                                                | 11,612               |

[1] MICS indicator 3.12,

**Note: 12 cases where education of head of the household was Preschool, 32 cases where head of household had education of madrassa and 21 cases where education of head of the households was missing /DK are not shown.**

## 6.10 Use of mosquito nets

101. Table CH.12 shows the use of mosquito nets by children under five years of age according to their background characteristics. Overall, only 1.5 percent children under age 5 years slept the night prior to the survey, under any kind of mosquito net. The proportion of those who slept under an insecticide treated net was only 0.6 percent. In the households owning insecticide treated nets, 22 percent of children who slept in the household the night before the survey, were reported to have used the insecticide treated nets. The proportion of such children was higher among female (27 percent) compared to male (18 percent). Education of head of the household was positively related to the use of mosquito net by the children under five years of age. No specific pattern was observed on the basis of wealth quintiles.

102. Table CH.13 shows that among women who were pregnant, only 3 percent slept under any kind of mosquito net while less than one percent reported to have slept under ITN. A very small number of pregnant women were living in HH with ITNs and results cannot be disaggregated by background variables. However, it can be mentioned that at the provincial level 28 percent of pregnant women in households with ITNS used them the night before the survey.

## **6.11 Prevalence and treatment of malaria**

103. Table CH.14 shows the percentage of children under 5 years of age who had fever in the last two weeks before the survey and those who received ante-malarial drugs. Nearly 18 percent children under age 5 years had suffered from fever in two weeks before the survey. Regional differences in fever prevalence were found. The highest prevalence was reported in Sibi (32 percent) followed by Nasirabad (26 percent) and Makran (21 percent) regions. The lowest incidence of fever was reported in Zhob (10 percent). Fever was found almost equally prevalent across all ages and gender. Fever was slightly lower among children whose mothers had secondary or higher education than among children of less educated mothers.

104. Those who had fever, nearly one-quarter were reported to have received antimalarial drugs the same or the following day. The percentage of children who received antimalarial drugs was higher in the areas where the prevalence was also high.

**Table CH.12: Children sleeping under mosquito nets**  
**Percentage of children age 0-59 months who slept under a mosquito net during the previous night, by type of net,**  
**Balochistan Province, Pakistan, 2010**

|                        |                | Percentage of children age 0-59 who stayed in the household the previous night | Number of children age 0-59 months | Percentage of children who: Slept under any mosquito net [1] | Percentage of children who: Slept under an insecticide treated net [2] | Number of children age 0-59 months who slept in the household the previous night | Percentage of children who slept under an ITN living in households with at least one ITN | Number of children age 0-59 living in households with at least one ITN |
|------------------------|----------------|--------------------------------------------------------------------------------|------------------------------------|--------------------------------------------------------------|------------------------------------------------------------------------|----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| Sex                    | Male           | 98.5                                                                           | 5,222                              | 1.4                                                          | 0.6                                                                    | 5,146                                                                            | 18.4                                                                                     | 168                                                                    |
|                        | Female         | 98.9                                                                           | 4,508                              | 1.7                                                          | 0.7                                                                    | 4,459                                                                            | 27.2                                                                                     | 115                                                                    |
| Region                 | Quetta         | 98.4                                                                           | 2,548                              | 0.7                                                          | 0.5                                                                    | 2,508                                                                            | 13.8                                                                                     | 93                                                                     |
|                        | Kalat          | 99.5                                                                           | 2,054                              | 0.9                                                          | 0.5                                                                    | 2,044                                                                            | 19.1                                                                                     | 52                                                                     |
|                        | Sibi           | 94.6                                                                           | 798                                | 3.2                                                          | 0.3                                                                    | 755                                                                              | (*)                                                                                      | 7                                                                      |
|                        | Zhob           | 99.2                                                                           | 1,608                              | 0.4                                                          | 0.2                                                                    | 1,596                                                                            | (12.0)                                                                                   | 32                                                                     |
|                        | Nasirabad      | 99.0                                                                           | 1,743                              | 1.2                                                          | 0.3                                                                    | 1,725                                                                            | (*)                                                                                      | 23                                                                     |
|                        | Makran         | 99.8                                                                           | 982                                | 6.1                                                          | 2.8                                                                    | 981                                                                              | 36.4                                                                                     | 76                                                                     |
| Area                   | Urban          | 98.7                                                                           | 2,028                              | 1.2                                                          | 0.6                                                                    | 2,002                                                                            | (25.1)                                                                                   | 48                                                                     |
|                        | Rural          | 98.7                                                                           | 7,706                              | 1.6                                                          | 0.7                                                                    | 7,607                                                                            | 21.4                                                                                     | 236                                                                    |
| Age                    | 0-11           | 98.9                                                                           | 1,362                              | 0.8                                                          | 0.6                                                                    | 1,347                                                                            | (29.2)                                                                                   | 30                                                                     |
|                        | 12-23          | 98.9                                                                           | 1,493                              | 1.5                                                          | 0.6                                                                    | 1,477                                                                            | (17.9)                                                                                   | 46                                                                     |
|                        | 24-35          | 98.3                                                                           | 1,973                              | 1.7                                                          | 0.7                                                                    | 1,940                                                                            | (27.0)                                                                                   | 50                                                                     |
|                        | 36-47          | 98.8                                                                           | 2,479                              | 1.5                                                          | 0.5                                                                    | 2,449                                                                            | 16.0                                                                                     | 82                                                                     |
|                        | 48-59          | 98.7                                                                           | 2,426                              | 1.9                                                          | 0.8                                                                    | 2,396                                                                            | 24.7                                                                                     | 76                                                                     |
| Mother's education     | None           | 98.9                                                                           | 8,354                              | 1.2                                                          | 0.4                                                                    | 8,259                                                                            | 16.4                                                                                     | 216                                                                    |
|                        | Some Education | 97.8                                                                           | 1,380                              | 4.8                                                          | 2.0                                                                    | 1,349                                                                            | 39.4                                                                                     | 67                                                                     |
| Wealth index quintiles | Poorest        | 99.8                                                                           | 2,033                              | 0.9                                                          | 0.5                                                                    | 2,028                                                                            | (26.2)                                                                                   | 40                                                                     |
|                        | Second         | 98.9                                                                           | 2,025                              | 1.0                                                          | 0.6                                                                    | 2,002                                                                            | 21.7                                                                                     | 51                                                                     |
|                        | Middle         | 98.3                                                                           | 2,062                              | 1.4                                                          | 0.5                                                                    | 2,027                                                                            | (26.2)                                                                                   | 41                                                                     |
|                        | Fourth         | 99.0                                                                           | 1,868                              | 2.4                                                          | 0.8                                                                    | 1,848                                                                            | 18.0                                                                                     | 85                                                                     |
|                        | Richest        | 97.5                                                                           | 1,746                              | 2.3                                                          | 0.9                                                                    | 1,702                                                                            | 22.2                                                                                     | 66                                                                     |
| <b>Total</b>           |                | 98.7                                                                           | 9,734                              | 1.5                                                          | 0.6                                                                    | 9,609                                                                            | 22.0                                                                                     | 284                                                                    |

Note 1: Figures shown in parenthesis are based on denominators of 25-49 un-weighted cases

Note 2: Figures denoted by an asterisk (\*) are based on denominators of 24 un-weighted cases and less

[1] MICS indicator 3.14

[2] MICS indicator 3.15; MDG indicator 6.7

**Table CH.13: Pregnant women sleeping under mosquito nets**  
**Percentage of pregnant women who slept under a mosquito net during the previous night, by type of net, Balochistan Province, Pakistan, 2010**

|                        |           | Percentage of pregnant women who stayed in the household the previous night | Number of pregnant women | Percentage of pregnant women who: Slept under any mosquito net | Percentage of pregnant women who: Slept under an insecticide treated net [1] | Number of pregnant women who slept in the household the previous night |
|------------------------|-----------|-----------------------------------------------------------------------------|--------------------------|----------------------------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------|
| Region                 | Quetta    | 97.8                                                                        | 519                      | 1.3                                                            | 1.0                                                                          | 507                                                                    |
|                        | Kalat     | 97.6                                                                        | 487                      | 1.6                                                            | 1.0                                                                          | 476                                                                    |
|                        | Sibi      | 99.1                                                                        | 282                      | 6.6                                                            | 0.9                                                                          | 279                                                                    |
|                        | Zhob      | 98.3                                                                        | 279                      | 1.5                                                            | 0.4                                                                          | 274                                                                    |
|                        | Nasirabad | 98.8                                                                        | 455                      | 0.6                                                            | 0.0                                                                          | 450                                                                    |
|                        | Makran    | 99.7                                                                        | 342                      | 10.7                                                           | 2.5                                                                          | 341                                                                    |
| Area                   | Urban     | 98.2                                                                        | 419                      | 3.1                                                            | 1.2                                                                          | 412                                                                    |
|                        | Rural     | 98.5                                                                        | 1,945                    | 3.3                                                            | 0.9                                                                          | 1,916                                                                  |
| Age                    | 15-19     | 91.8                                                                        | 95                       | 0.7                                                            | 0.0                                                                          | 87                                                                     |
|                        | 20-24     | 97.2                                                                        | 340                      | 0.4                                                            | 0.0                                                                          | 331                                                                    |
|                        | 25-29     | 98.0                                                                        | 604                      | 2.4                                                            | 1.5                                                                          | 592                                                                    |
|                        | 30-34     | 99.5                                                                        | 501                      | 4.8                                                            | 1.6                                                                          | 498                                                                    |
|                        | 35-39     | 99.7                                                                        | 493                      | 4.3                                                            | 0.5                                                                          | 492                                                                    |
|                        | 40-44     | 99.0                                                                        | 192                      | 3.6                                                            | 0.0                                                                          | 190                                                                    |
|                        | 45-49     | 99.2                                                                        | 138                      | 5.7                                                            | 1.6                                                                          | 137                                                                    |
| Education              | None      | 98.5                                                                        | 1,993                    | 2.5                                                            | 0.5                                                                          | 1,964                                                                  |
|                        | Primary   | 95.0                                                                        | 89                       | 1.3                                                            | 1.3                                                                          | 85                                                                     |
|                        | Middle    | 97.3                                                                        | 75                       | 1.8                                                            | 0.7                                                                          | 73                                                                     |
|                        | Matric    | 100.0                                                                       | 134                      | 10.3                                                           | 5.1                                                                          | 134                                                                    |
|                        | Higher    | 100.0                                                                       | 70                       | 15.9                                                           | 5.5                                                                          | 70                                                                     |
| Wealth index quintiles | Poorest   | 98.9                                                                        | 420                      | 4.0                                                            | 1.6                                                                          | 415                                                                    |
|                        | Second    | 98.1                                                                        | 551                      | 1.0                                                            | 0.4                                                                          | 541                                                                    |
|                        | Middle    | 99.6                                                                        | 532                      | 1.6                                                            | 0.3                                                                          | 529                                                                    |
|                        | Fourth    | 97.5                                                                        | 463                      | 5.1                                                            | 2.2                                                                          | 451                                                                    |
|                        | Richest   | 98.1                                                                        | 398                      | 5.8                                                            | 0.4                                                                          | 390                                                                    |
| Total                  |           | 98.5                                                                        | 2,364                    | 3.3                                                            | 0.9                                                                          | 2,328                                                                  |

[1] MICS indicator 3.19

Note: Information of 2 pregnant women with Madrassa education is not shown.

**Table CH.14: Anti-malarial treatment of children with anti-malarial drugs**  
**Percentage of children age 0-59 months who had fever in the last two weeks who received anti-malarial drugs, Balochistan Province, Pakistan, 2010**

|                           |                               | Children with a fever in the last two weeks who were treated with: |                               |                             |                              |                         |                                                |                                      |                                     |                                            |                                            |                                         |                                                          |                            |                              |                          |            |     | Percentage who took an anti-malarial drug same or next day [2] | Number of children with fever in last two week |
|---------------------------|-------------------------------|--------------------------------------------------------------------|-------------------------------|-----------------------------|------------------------------|-------------------------|------------------------------------------------|--------------------------------------|-------------------------------------|--------------------------------------------|--------------------------------------------|-----------------------------------------|----------------------------------------------------------|----------------------------|------------------------------|--------------------------|------------|-----|----------------------------------------------------------------|------------------------------------------------|
|                           | Had a fever in last two weeks | Number of children age 0-59 months                                 | Anti-malarials: SP / Fansidar | Anti-malarials: Chloroquine | Anti-malarials: Armodiaquine | Anti-malarials: Quinine | Anti-malarials: Artemisinin based combinations | Anti-malarials: Country specific CBD | Anti-malarials: Other Anti-malarial | Anti-malarials: Any anti-malarial drug [1] | Other medications: Antibiotic pill / syrup | Other medications: Antibiotic injection | Other medications: Paracetamol / Panadol / Acetaminophan | Other medications: Aspirin | Other medications: Ibuprofen | Other medications: Other | Don't know |     |                                                                |                                                |
| <b>Sex</b>                | Male                          | 17.9                                                               | 5,222                         | 18.8                        | 12.1                         | 1.2                     | 12.5                                           | 0.3                                  | 0.0                                 | 1.1                                        | 34.4                                       | 6.7                                     | 0.7                                                      | 21.4                       | 4.5                          | 18.0                     | 3.7        | 2.8 | 25.9                                                           | 933                                            |
|                           | Female                        | 17.5                                                               | 4,508                         | 18.0                        | 11.6                         | 1.2                     | 8.9                                            | 0.2                                  | 0.2                                 | 0.8                                        | 32.6                                       | 6.8                                     | 1.9                                                      | 18.4                       | 4.4                          | 17.2                     | 6.4        | 4.2 | 22.0                                                           | 788                                            |
| <b>Region</b>             | Quetta                        | 12.7                                                               | 2,548                         | 3.5                         | 1.7                          | 0.0                     | 2.5                                            | 0.0                                  | 0.0                                 | 1.4                                        | 7.4                                        | 5.7                                     | 0.7                                                      | 26.9                       | 0.4                          | 25.4                     | 13.4       | 5.0 | 3.5                                                            | 324                                            |
|                           | Kalat                         | 15.7                                                               | 2,054                         | 13.6                        | 7.3                          | 2.6                     | 8.3                                            | 0.0                                  | 0.4                                 | 1.4                                        | 20.5                                       | 10.2                                    | 1.8                                                      | 13.4                       | 8.7                          | 20.2                     | 3.2        | 4.9 | 11.7                                                           | 322                                            |
|                           | Sibi                          | 32.2                                                               | 798                           | 30.1                        | 27.1                         | 1.8                     | 13.8                                           | 0.1                                  | 0.2                                 | 0.5                                        | 71.5                                       | 3.5                                     | 0.7                                                      | 11.3                       | 6.6                          | 12.2                     | 1.2        | 1.6 | 49.2                                                           | 257                                            |
|                           | Zhob                          | 10.2                                                               | 1,608                         | 10.1                        | 9.9                          | 0.8                     | 7.2                                            | 0.0                                  | 0.0                                 | 0.0                                        | 25.0                                       | 1.6                                     | 2.1                                                      | 13.0                       | 8.0                          | 9.4                      | 2.5        | 6.3 | 17.2                                                           | 164                                            |
|                           | Nasirabad                     | 25.8                                                               | 1,743                         | 24.9                        | 13.1                         | 0.2                     | 4.8                                            | 0.9                                  | 0.0                                 | 1.0                                        | 36.4                                       | 8.7                                     | 1.5                                                      | 33.1                       | 1.9                          | 11.2                     | 0.9        | 2.1 | 30.3                                                           | 449                                            |
| <b>Area</b>               | Makran                        | 20.9                                                               | 982                           | 27.6                        | 14.8                         | 2.6                     | 40.8                                           | 0.0                                  | 0.0                                 | 0.8                                        | 48.1                                       | 6.9                                     | 0.8                                                      | 7.4                        | 4.4                          | 29.1                     | 10.0       | 1.5 | 36.5                                                           | 205                                            |
| <b>Area</b>               | Urban                         | 16.7                                                               | 2,028                         | 13.6                        | 5.2                          | 0.2                     | 7.0                                            | 0.2                                  | 0.4                                 | 2.4                                        | 23.4                                       | 10.4                                    | 3.4                                                      | 23.9                       | 5.0                          | 20.4                     | 6.4        | 5.4 | 15.8                                                           | 339                                            |
|                           | Rural                         | 17.9                                                               | 7,706                         | 19.6                        | 13.5                         | 1.5                     | 11.8                                           | 0.3                                  | 0.0                                 | 0.6                                        | 36.0                                       | 5.9                                     | 0.7                                                      | 19.1                       | 4.4                          | 17.0                     | 4.6        | 2.9 | 26.2                                                           | 1,382                                          |
| <b>Age</b>                | 0-11                          | 18.7                                                               | 1,362                         | 7.0                         | 3.4                          | 0.3                     | 7.6                                            | 0.4                                  | 0.2                                 | 2.9                                        | 15.8                                       | 4.0                                     | 0.5                                                      | 22.1                       | 2.6                          | 20.1                     | 9.2        | 6.9 | 12.5                                                           | 255                                            |
|                           | 12-23                         | 19.2                                                               | 1,493                         | 16.9                        | 11.1                         | 0.9                     | 11.4                                           | 0.0                                  | 0.0                                 | 0.4                                        | 32.9                                       | 7.0                                     | 0.7                                                      | 23.2                       | 5.2                          | 20.6                     | 5.7        | 3.2 | 21.0                                                           | 287                                            |
|                           | 24-35                         | 17.4                                                               | 1,973                         | 15.0                        | 12.4                         | 0.7                     | 7.4                                            | 0.0                                  | 0.0                                 | 1.3                                        | 30.5                                       | 6.4                                     | 2.0                                                      | 20.6                       | 5.7                          | 14.5                     | 2.8        | 3.7 | 19.9                                                           | 343                                            |
|                           | 36-47                         | 17.9                                                               | 2,479                         | 23.5                        | 11.1                         | 1.3                     | 11.3                                           | 0.4                                  | 0.3                                 | 0.2                                        | 37.7                                       | 7.0                                     | 1.8                                                      | 22.3                       | 4.0                          | 18.3                     | 4.9        | 3.3 | 27.5                                                           | 445                                            |
|                           | 48-59                         | 16.1                                                               | 2,426                         | 24.3                        | 18.5                         | 2.4                     | 15.1                                           | 0.3                                  | 0.0                                 | 0.6                                        | 43.6                                       | 8.4                                     | 0.9                                                      | 13.3                       | 4.6                          | 16.0                     | 3.6        | 1.2 | 33.8                                                           | 391                                            |
| <b>Mother's education</b> | None                          | 17.6                                                               | 8,338                         | 19.0                        | 12.1                         | 1.4                     | 10.6                                           | 0.3                                  | 0.0                                 | 1.1                                        | 34.9                                       | 6.2                                     | 1.5                                                      | 19.7                       | 4.6                          | 16.0                     | 4.4        | 3.2 | 25.1                                                           | 1,469                                          |
|                           | Primary                       | 17.9                                                               | 428                           | 17.6                        | 6.9                          | 0.0                     | 8.8                                            | 0.0                                  | 0.0                                 | 0.0                                        | 27.8                                       | 8.4                                     | 0.0                                                      | 39.2                       | 4.4                          | 26.6                     | 3.2        | 6.2 | 18.7                                                           | 77                                             |
|                           | Middle                        | (16.4)                                                             | 210                           | (4.1)                       | (10.3)                       | (2.4)                   | (1.1)                                          | 0.0                                  | (3.8)                               | (1.1)                                      | (20.4)                                     | (5.6)                                   | 0.0                                                      | (13.1)                     | (3.1)                        | (5.6)                    | (11.4)     | 2.8 | (10.5)                                                         | 34                                             |
|                           | Matric                        | 21.9                                                               | 420                           | 15.9                        | 15.0                         | 0.0                     | 25.3                                           | 0.0                                  | 0.0                                 | 0.0                                        | 30.5                                       | 11.5                                    | 0.0                                                      | 13.5                       | 5.1                          | 34.6                     | 11.3       | 2.6 | 26.0                                                           | 92                                             |
|                           | Higher                        | 12.7                                                               | 321                           | (15.4)                      | (4.3)                        | 0.0                     | 1.0                                            | 0.0                                  | 0.0                                 | 0.0                                        | (16.9)                                     | (16.4)                                  | 0.0                                                      | (21.1)                     | 0.0                          | (28.9)                   | (9.6)      | 2.0 | (12.0)                                                         | 41                                             |
| <b>Wealth quintiles</b>   | Poorest                       | 16.9                                                               | 2,033                         | 11.8                        | 5.9                          | 0.8                     | 5.5                                            | 0.0                                  | 0.1                                 | 1.3                                        | 16.9                                       | 5.4                                     | 0.6                                                      | 16.1                       | 2.7                          | 17.1                     | 3.4        | 2.6 | 10.1                                                           | 344                                            |
|                           | Second                        | 16.7                                                               | 2,025                         | 18.3                        | 13.4                         | 2.4                     | 10.1                                           | 0.3                                  | 0.0                                 | 0.9                                        | 30.6                                       | 8.8                                     | 1.5                                                      | 24.5                       | 5.8                          | 16.4                     | 6.5        | 3.3 | 21.6                                                           | 339                                            |
|                           | Middle                        | 16.1                                                               | 2,062                         | 23.3                        | 17.4                         | 1.1                     | 15.7                                           | 0.7                                  | 0.0                                 | 0.4                                        | 49.2                                       | 5.8                                     | 1.4                                                      | 14.3                       | 5.9                          | 19.8                     | 3.0        | 4.4 | 37.5                                                           | 331                                            |
|                           | Fourth                        | 20.2                                                               | 1,868                         | 24.2                        | 15.5                         | 1.5                     | 12.9                                           | 0.0                                  | 0.0                                 | 0.8                                        | 45.1                                       | 5.5                                     | 1.1                                                      | 21.1                       | 4.6                          | 15.1                     | 4.3        | 3.1 | 30.8                                                           | 376                                            |
|                           | Richest                       | 19.0                                                               | 1,746                         | 14.1                        | 6.9                          | 0.2                     | 10.1                                           | 0.2                                  | 0.4                                 | 1.4                                        | 25.1                                       | 8.5                                     | 1.7                                                      | 24.0                       | 3.5                          | 20.4                     | 7.7        | 3.6 | 20.2                                                           | 331                                            |
| <b>Total</b>              |                               | 17.7                                                               | 9,734                         | 18.4                        | 11.9                         | 1.2                     | 10.9                                           | 0.2                                  | 0.1                                 | 0.9                                        | 33.5                                       | 6.8                                     | 1.3                                                      | 20.0                       | 4.5                          | 17.7                     | 5.0        | 3.4 | 24.1                                                           | 1,721                                          |

Note 1: Figures shown in parenthesis are based on denominators of 25-49 cases; and those shown by an asterisk (\*) are based on denominators of 24 un-weighted cases and less

Note 2: 7 cases with mother's education of preschool and 10 cases with mothers' education of Madrassa are not shown

[1] MICS indicator 3.18; MDG indicator 6.8

[2] MICS indicator 3.17

## 6.12 Malaria diagnostics usage

105. Mothers were also asked whether the child who had fever was tested for the presence of malaria. Table CH.15 shows that nearly 26 percent children were finger or heel pricked for blood test for malaria. The data shows that in Sibi region, blood test for malaria was very high (82 percent) whereas in Quetta which is the most urbanised region of Balochistan, only 9 percent children who had fever were tested for malaria. Surprisingly, blood test for malaria was higher in rural (27 percent) than in urban areas (21 percent). Blood test for malaria was found to be rising with the increase in age of child. No specific pattern was, however, observed on the basis of mother's education. Except for the fifth quintile, malaria diagnosis steadily increased with the rise in wealth index.

**Table CH.15: Malaria diagnostics usage**  
**Percentage of children age 0-59 months who had a fever in the last two weeks and who had a finger or heel stick for malaria testing, Balochistan Province, Pakistan, 2010**

|                               |           | Children age 0-59 months with fever in last two week |                    |
|-------------------------------|-----------|------------------------------------------------------|--------------------|
|                               |           | Had a finger or heel stick [1]                       | Number of children |
| <b>Sex</b>                    | Male      | 28.9                                                 | 933                |
|                               | Female    | 22.2                                                 | 788                |
| <b>Region</b>                 | Quetta    | 9.2                                                  | 324                |
|                               | Kalat     | 13.4                                                 | 322                |
|                               | Sibi      | 81.7                                                 | 257                |
|                               | Zhob      | 20.0                                                 | 164                |
|                               | Nasirabad | 15.2                                                 | 449                |
|                               | Makran    | 29.5                                                 | 205                |
| <b>Area</b>                   | Urban     | 20.5                                                 | 339                |
|                               | Rural     | 27.1                                                 | 1,382              |
| <b>Age</b>                    | 0-11      | 11.4                                                 | 255                |
|                               | 12-23     | 22.4                                                 | 287                |
|                               | 24-35     | 24.9                                                 | 343                |
|                               | 36-47     | 31.4                                                 | 445                |
|                               | 48-59     | 32.3                                                 | 391                |
| <b>Mother's education</b>     | None      | 26.9                                                 | 1,469              |
|                               | Primary   | 13.0                                                 | 77                 |
|                               | Middle    | (16.0)                                               | 34                 |
|                               | Matric    | 24.2                                                 | 92                 |
|                               | Higher    | (24.0)                                               | 41                 |
| <b>Wealth index quintiles</b> | Poorest   | 5.1                                                  | 344                |
|                               | Second    | 17.5                                                 | 339                |
|                               | Middle    | 37.8                                                 | 331                |
|                               | Fourth    | 40.7                                                 | 376                |
|                               | Richest   | 27.0                                                 | 331                |
| <b>Total</b>                  |           | 25.8                                                 | 1721               |

Note 1: 8 number of cases with mother's education either as "pre-school or *Madrassa*" are not shown.

Note 2: Figures shown in parenthesis are based on denominators of 25-49 un-weighted cases

[1] MICS indicator 3.16

### **6.13 Intermittent preventive treatment for malaria among women**

106. Pregnant women living in places where malaria is highly prevalent are four times more likely than other adults to get malaria and twice as likely to die of the disease. Once infected, pregnant women risk anemia, premature delivery and stillbirth. Their babies are likely to be of low birth weight, which makes them unlikely to survive their first year of life. For this reason, steps are taken to protect pregnant women by distributing insecticide-treated mosquito nets and treatment during antenatal check-ups with drugs that prevent malaria infection (Intermittent preventive treatment or IPT). In Balochistan MICS, ever married women were asked about the medicines they had received in their last pregnancy during the 2 years preceding the survey. Women are considered to have received intermittent preventive therapy if they have received at least 2 doses of SP/Fansidar during the pregnancy.

107. Intermittent preventive treatment for malaria in pregnant women who gave birth in the two years preceding the survey is presented in Table CH.16. Results show that only 39 percent women had received antenatal care during their last pregnancy in two years preceding the survey. Those who had received antenatal care, only 12 percent were given a medicine to prevent malaria at any ANC visit. Eight percent had received SP/Fansidar at least once while 3 percent had received these medicines two or more times during their last pregnancy. The highest proportion of such women was found in Makran region. Very few women in the most urbanized region of Quetta reported having receiving any preventive medicine for malaria during their last pregnancy.



**Table CH.16: Intermittent preventive treatment for malaria among ever married women**  
**Percentage of women age 15-49 years who had a live birth during the two years preceding the survey and who received**  
**intermittent preventive treatment (IPT) for malaria during pregnancy at any antenatal care visit, Balochistan Province,**  
**Pakistan, 2010**

|                               |           | Percentage of women who received antenatal care (ANC) | Number of women who gave birth in the preceding two years | Percentage of pregnant women who took:                            |                           |                                   | Number of women who had a live birth in the last two years and who received antenatal care |
|-------------------------------|-----------|-------------------------------------------------------|-----------------------------------------------------------|-------------------------------------------------------------------|---------------------------|-----------------------------------|--------------------------------------------------------------------------------------------|
|                               |           |                                                       |                                                           | Any medicine to prevent malaria at any ANC visit during pregnancy | SP/Fansidar at least once | SP/Fansidar two or more times [1] |                                                                                            |
| <b>Region</b>                 | Quetta    | 44.7                                                  | 792                                                       | 6.5                                                               | 2.4                       | 1.4                               | 354                                                                                        |
|                               | Kalat     | 30.0                                                  | 565                                                       | 12.5                                                              | 7.7                       | 1.7                               | 170                                                                                        |
|                               | Sibi      | 48.1                                                  | 166                                                       | 21.6                                                              | 10.5                      | 4.2                               | 80                                                                                         |
|                               | Zhob      | 31.8                                                  | 286                                                       | 16.8                                                              | 12.5                      | .5                                | 91                                                                                         |
|                               | Nasirabad | 33.6                                                  | 476                                                       | 10.8                                                              | 7.3                       | 1.7                               | 160                                                                                        |
| <b>Area</b>                   | Makran    | 57.5                                                  | 207                                                       | 20.4                                                              | 18.1                      | 13.3                              | 119                                                                                        |
|                               | Urban     | 63.4                                                  | 602                                                       | 9.6                                                               | 5.5                       | 2.6                               | 381                                                                                        |
| <b>Education</b>              | Rural     | 31.3                                                  | 1,889                                                     | 13.8                                                              | 9.0                       | 3.4                               | 592                                                                                        |
|                               | None      | 31.3                                                  | 2,019                                                     | 11.7                                                              | 7.4                       | 2.6                               | 631                                                                                        |
|                               | Primary   | 55.2                                                  | 136                                                       | 14.2                                                              | 7.7                       | 00.8                              | 75                                                                                         |
|                               | Middle    | 68.0                                                  | 73                                                        | (13.1)                                                            | (7.3)                     | (3.7)                             | 50                                                                                         |
|                               | Matric    | 76.3                                                  | 140                                                       | 17.2                                                              | 11.4                      | 10.0                              | 107                                                                                        |
| <b>Wealth index quintiles</b> | Higher    | 90.2                                                  | 117                                                       | 8.5                                                               | 5.7                       | 0.4                               | 106                                                                                        |
|                               | Poorest   | 18.3                                                  | 464                                                       | 15.0                                                              | 13.3                      | 5.3                               | 85                                                                                         |
|                               | Second    | 24.2                                                  | 539                                                       | 13.6                                                              | 8.7                       | 2.3                               | 130                                                                                        |
|                               | Middle    | 32.3                                                  | 485                                                       | 13.1                                                              | 6.3                       | 2.0                               | 157                                                                                        |
|                               | Fourth    | 48.2                                                  | 490                                                       | 14.6                                                              | 10.1                      | 4.5                               | 236                                                                                        |
| <b>Total</b>                  | Richest   | 71.1                                                  | 513                                                       | 9.0                                                               | 4.9                       | 2.4                               | 365                                                                                        |
|                               |           | 39.1                                                  | 2,491                                                     | 12.1                                                              | 7.6                       | 3.1                               | 973                                                                                        |

Note 1: Figures shown in parenthesis are based on denominators of 25-49 unweighted cases

Note 2: One case where mother education is preschool and 3 cases where mothers' education is madrassa are not shown.

[1] MICS indicator 3.20

## 6.14 Hand washing

108. Hand washing with water and soap is the most cost effective health intervention to reduce both the incidence of diarrhoea and pneumonia in children under five. It is most effective when done using water and soap after visiting a toilet or cleaning a child, before eating or handling food and, before feeding a child. Monitoring correct hand washing behaviour at these critical times is challenging. A reliable alternative to observations or self-reported behaviour is assessing the likelihood that correct hand washing behaviour takes place by observing if a household has a specific place where people most often wash their hands and observing if water and soap (or other local cleansing materials) are present at a specific place for hand washing.

109. In Balochistan, in two-third (66 percent) households a specific place for hand washing was observed while in 21 percent households no specific place could be indicated where household members usually wash their hands and seven percent of the households did not give a permission to see the place used for hand washing (see Table CH.17). Of those households where place for hand washing was observed, 64 percent had both water and soap present at the designated place. In 15 percent of the households only water was available at the designated place, while in nearly 8 percent of the households the place only had soap but

no water. The remaining 14 percent of households had neither water nor soap available at the designated place for hand washing.

110. Highest proportion of households where separate place for hand washing was available and also observed were found in Zhob and Makran regions (77 percent). In Nasirabad region nearly half of the households (48 percent) had no specific place within the dwelling for hand washing. The Quetta region, the most urbanized in Balochistan, ranked highest on the basis of availability of both water and soap at the place of hand washing, while Zhob region despite ranking high in terms of availability of separate place for hand washing, fell lowest with regard to availability of both water and soap at the designated hand washing place. Availability of water and soap at the hand washing place was positively related to area of residence, education and economic and social prosperity at the household level.

111. Table CH.18 shows availability of soap anywhere in the dwelling both for households where the availability was observed at the hand washing place and those where dedicated place for hand washing could not be observed. Overall, it was noted that soap was available in three-fourth (75 percent) of the households at the aggregate level. The availability of soap was highest in Quetta region and lowest in Makran region. The availability of soap in the dwelling was also positively correlated with area of residence, education of head of the household and economic status.

**Table CH.17: Water and soap at place for handwashing**  
**Percentage of households where place for handwashing was observed and percent distribution of households by availability of water and soap at place for handwashing, Balochistan Province, Pakistan, 2010**

|                             |           | Percentage of households where place for handwashing was not observed |                           |                      |               |         | Total | Percent distribution of households where place for handwashing was observed, where: |                                  |                                           |                                           |                                  | Total | Number of households where place for handwashing was observed |         |
|-----------------------------|-----------|-----------------------------------------------------------------------|---------------------------|----------------------|---------------|---------|-------|-------------------------------------------------------------------------------------|----------------------------------|-------------------------------------------|-------------------------------------------|----------------------------------|-------|---------------------------------------------------------------|---------|
|                             |           | Percentage of households where place for handwashing was observed     | Not in dwelling/plot/yard | No permission to see | Other reasons | Missing |       | Number of households                                                                | Water and soap are available [1] | Water is available, soap is not available | Water is not available, soap is available | Water and soap are not available |       |                                                               | Missing |
| Region                      | Quetta    | 66.9                                                                  | 13.7                      | 9.9                  | 9.2           | 0.3     | 100.0 | 2715                                                                                | 81.5                             | 13.5                                      | 2.7                                       | 2.3                              | 0.0   | 100.0                                                         | 1815    |
|                             | Kalat     | 67.8                                                                  | 22.3                      | 8.7                  | 0.7           | 0.6     | 100.0 | 2835                                                                                | 62.9                             | 15.1                                      | 7.1                                       | 14.5                             | 0.4   | 100.0                                                         | 1922    |
|                             | Sibi      | 65.4                                                                  | 15.9                      | 15.8                 | 2.7           | 0.1     | 100.0 | 997                                                                                 | 64.3                             | 7.6                                       | 22.5                                      | 5.5                              | 0.2   | 100.0                                                         | 652     |
|                             | Zhob      | 77.1                                                                  | 8.1                       | 5.8                  | 8.4           | 0.5     | 100.0 | 1677                                                                                | 42.5                             | 11.0                                      | 13.8                                      | 32.6                             | 0.0   | 100.0                                                         | 1293    |
|                             | Nasirabad | 45.5                                                                  | 47.5                      | 3.3                  | 3.1           | 0.6     | 100.0 | 1849                                                                                | 60.4                             | 18.9                                      | 6.8                                       | 13.8                             | 0.1   | 100.0                                                         | 840     |
|                             | Mekran    | 77.0                                                                  | 20.1                      | 1.5                  | 1.0           | 0.4     | 100.0 | 1539                                                                                | 63.4                             | 19.3                                      | 1.4                                       | 16.0                             | 0.0   | 100.0                                                         | 1185    |
| Area                        | Urban     | 75.3                                                                  | 12.6                      | 8.5                  | 2.9           | 0.7     | 100.0 | 2720                                                                                | 85.4                             | 8.2                                       | 4.0                                       | 2.2                              | 0.2   | 100.0                                                         | 2048    |
|                             | Rural     | 63.6                                                                  | 24.1                      | 7.0                  | 4.9           | 0.4     | 100.0 | 8892                                                                                | 56.0                             | 16.7                                      | 8.9                                       | 18.3                             | 0.1   | 100.0                                                         | 5659    |
| Education of household head | None      | 64.3                                                                  | 23.2                      | 7.8                  | 4.3           | 0.5     | 100.0 | 7050                                                                                | 56.1                             | 15.8                                      | 9.4                                       | 18.6                             | 0.1   | 100.0                                                         | 4532    |
|                             | Primary   | 67.9                                                                  | 18.0                      | 6.0                  | 7.5           | 0.5     | 100.0 | 884                                                                                 | 69.2                             | 19.0                                      | 4.2                                       | 7.3                              | 0.3   | 100.0                                                         | 600     |
|                             | Middle    | 60.3                                                                  | 27.1                      | 7.7                  | 4.7           | 0.2     | 100.0 | 702                                                                                 | 69.9                             | 14.8                                      | 6.8                                       | 8.4                              | 0.0   | 100.0                                                         | 423     |
|                             | Matric    | 70.1                                                                  | 18.9                      | 6.6                  | 4.1           | 0.4     | 100.0 | 1606                                                                                | 73.1                             | 10.6                                      | 6.7                                       | 9.4                              | 0.1   | 100.0                                                         | 1125    |
|                             | Higher    | 74.6                                                                  | 14.6                      | 6.7                  | 3.6           | 0.5     | 100.0 | 1349                                                                                | 81.9                             | 9.6                                       | 2.7                                       | 5.6                              | 0.2   | 100.0                                                         | 1007    |
| Wealth index quintiles      | Poorest   | 60.2                                                                  | 28.7                      | 5.2                  | 5.6           | 0.3     | 100.0 | 2528                                                                                | 28.0                             | 20.9                                      | 7.9                                       | 43.0                             | 0.2   | 100.0                                                         | 1521    |
|                             | Second    | 59.3                                                                  | 29.2                      | 6.3                  | 4.8           | 0.4     | 100.0 | 2402                                                                                | 54.9                             | 21.5                                      | 7.5                                       | 16.0                             | 0.1   | 100.0                                                         | 1425    |
|                             | Middle    | 67.8                                                                  | 20.6                      | 7.9                  | 3.2           | 0.5     | 100.0 | 2270                                                                                | 66.1                             | 16.8                                      | 9.3                                       | 7.6                              | 0.1   | 100.0                                                         | 1540    |
|                             | Fourth    | 70.2                                                                  | 16.4                      | 8.5                  | 4.2           | 0.7     | 100.0 | 2185                                                                                | 75.6                             | 10.1                                      | 9.2                                       | 4.8                              | 0.2   | 100.0                                                         | 1535    |
|                             | Richest   | 75.7                                                                  | 10.6                      | 9.1                  | 4.2           | 0.4     | 100.0 | 2227                                                                                | 90.7                             | 4.5                                       | 4.3                                       | .6                               | 0.0   | 100.0                                                         | 1687    |
| Total                       |           | 66.4                                                                  | 21.4                      | 7.3                  | 4.4           | 0.4     | 100.0 | 11612                                                                               | 63.8                             | 14.5                                      | 7.6                                       | 14.1                             | 0.1   | 100.0                                                         | 7708    |

**[1] MICS indicator 4.5**

Note 1: 12 cases with head of household education as preschool; 32 cases with head of household education as madrassa and 21 cases with missing or DK education of head of household are not shown for households where place of handwashing was not observed.

Note 2: 7 cases with head of household education as preschool; 20 cases with head of household education as madrassa and 21 cases with missing or DK education of head of household are not shown for households where place of handwashing was observed

**Table CH.18: Availability of soap**  
**Percent distribution of households by availability of soap in the dwelling, Balochistan Province, Pakistan 2010**

|                             |           | Place for handwashing observed |            |                      |                                      |         | Total | Place for handwashing not observed |                      |                                      |         |       | Percentage of households with soap anywhere in the dwelling [1] | Number of households |
|-----------------------------|-----------|--------------------------------|------------|----------------------|--------------------------------------|---------|-------|------------------------------------|----------------------|--------------------------------------|---------|-------|-----------------------------------------------------------------|----------------------|
|                             |           | Soap observed                  | Soap shown | No soap in household | Not able /Does not want to show soap | Missing |       | Soap shown                         | No soap in household | Not able /Does not want to show soap | Missing |       |                                                                 |                      |
| Region                      | Quetta    | 84.2                           | 6.5        | 8.7                  | 0.4                                  | 0.2     | 100.0 | 74.5                               | 17.2                 | 5.4                                  | 3.0     | 100.0 | 85.3                                                            | 2715                 |
|                             | Kalat     | 69.9                           | 14.1       | 14.5                 | 0.9                                  | 0.6     | 100.0 | 47.5                               | 49.5                 | 2.1                                  | 0.9     | 100.0 | 72.3                                                            | 2835                 |
|                             | Sibi      | 86.8                           | 8.0        | 4.3                  | 0.6                                  | 0.3     | 100.0 | 54.5                               | 42.1                 | 3.1                                  | 0.4     | 100.0 | 80.8                                                            | 997                  |
|                             | Zhob      | 56.3                           | 26.3       | 16.3                 | 0.8                                  | 0.2     | 100.0 | 46.5                               | 51.8                 | 1.5                                  | 0.2     | 100.0 | 74.4                                                            | 1677                 |
|                             | Nasirabad | 67.2                           | 20.9       | 10.4                 | 1.4                                  | 0.1     | 100.0 | 62.2                               | 35.0                 | 2.5                                  | 0.3     | 100.0 | 74.0                                                            | 1849                 |
|                             | Mekran    | 64.8                           | 5.3        | 29.4                 | 0.5                                  | 0.0     | 100.0 | 35.6                               | 61.7                 | 2.1                                  | 0.7     | 100.0 | 62.1                                                            | 1539                 |
| Area                        | Urban     | 89.4                           | 3.9        | 6.1                  | 0.3                                  | 0.3     | 100.0 | 71.2                               | 21.5                 | 4.9                                  | 2.3     | 100.0 | 87.8                                                            | 2720                 |
|                             | Rural     | 64.8                           | 16.6       | 17.4                 | 0.9                                  | 0.2     | 100.0 | 54.0                               | 42.6                 | 2.6                                  | 0.8     | 100.0 | 71.5                                                            | 8892                 |
| Education of household head | None      | 65.5                           | 15.9       | 17.3                 | 0.9                                  | 0.3     | 100.0 | 52.8                               | 43.5                 | 2.8                                  | 0.9     | 100.0 | 71.2                                                            | 7050                 |
|                             | Primary   | 73.4                           | 17.2       | 8.9                  | 0.2                                  | 0.3     | 100.0 | 72.2                               | 23.2                 | 4.4                                  | 0.2     | 100.0 | 84.7                                                            | 884                  |
|                             | Middle    | 76.7                           | 8.9        | 13.3                 | 1.1                                  | 0.1     | 100.0 | 56.3                               | 37.3                 | 3.1                                  | 3.2     | 100.0 | 74.0                                                            | 702                  |
|                             | Matric    | 79.9                           | 8.7        | 10.6                 | 0.7                                  | 0.2     | 100.0 | 55.3                               | 40.4                 | 2.5                                  | 1.8     | 100.0 | 78.6                                                            | 1606                 |
| Wealth index quintiles      | Higher    | 84.6                           | 5.6        | 9.4                  | 0.1                                  | 0.2     | 100.0 | 77.1                               | 18.6                 | 3.9                                  | 0.4     | 100.0 | 86.9                                                            | 1349                 |
|                             | Poorest   | 35.9                           | 31.3       | 31.0                 | 1.2                                  | 0.5     | 100.0 | 39.4                               | 58.2                 | 1.6                                  | 0.8     | 100.0 | 56.1                                                            | 2528                 |
|                             | Second    | 62.4                           | 17.9       | 18.6                 | 0.9                                  | 0.2     | 100.0 | 58.6                               | 38.3                 | 2.9                                  | 0.2     | 100.0 | 71.5                                                            | 2402                 |
|                             | Middle    | 75.4                           | 10.6       | 12.9                 | 0.9                                  | 0.2     | 100.0 | 57.8                               | 38.8                 | 2.4                                  | 1.0     | 100.0 | 76.9                                                            | 2270                 |
| Total                       | Fourth    | 84.8                           | 5.5        | 9.1                  | 0.3                                  | 0.2     | 100.0 | 62.2                               | 31.3                 | 4.2                                  | 2.4     | 100.0 | 82.0                                                            | 2185                 |
|                             | Richest   | 94.9                           | 2.4        | 2.1                  | 0.4                                  | 0.2     | 100.0 | 79.3                               | 13.6                 | 5.1                                  | 1.9     | 100.0 | 93.0                                                            | 2227                 |
| Total                       |           | 71.3                           | 13.2       | 14.4                 | 0.7                                  | 0.3     | 100.0 | 57.0                               | 39.0                 | 3.0                                  | 1.1     | 100.0 | 75.3                                                            | 11612                |

[1] MICS indicator 4.6

Note 1: 12 cases with head of household's education as preschool, 32 cases with head of household as Madrassa and 21 cases where education of head of household is missing or DK are not shown

# VII Water and Sanitation

112. Safe drinking water is a basic necessity for good health. Unsafe drinking water can be a significant carrier of diseases such as trachoma, cholera, typhoid and schistosomiasis. Drinking water can also be tainted with chemical, physical and radiological contaminants with harmful effects on human health. In addition to its association with disease, access to drinking water may be particularly important for women and children, especially in rural areas, who bear the primary responsibility for carrying water, often for long distances.

113. The MDG goal is to reduce by half, between 1990 and 2015, the proportion of people without sustainable access to safe drinking water and basic sanitation. The World Fit for Children Goal calls for a reduction in the proportion of households without access to hygienic sanitation facilities and affordable and safe drinking water by at least one-third.

114. The list of indicators used in MICS is as follows:

## Water

- Use of improved drinking water sources
- Use of adequate water treatment method
- Time to source of drinking water
- Person collecting drinking water

## Sanitation

- Use of improved sanitation facilities
- Sanitary disposal of child's faeces

### 7.1 Use of improved water sources

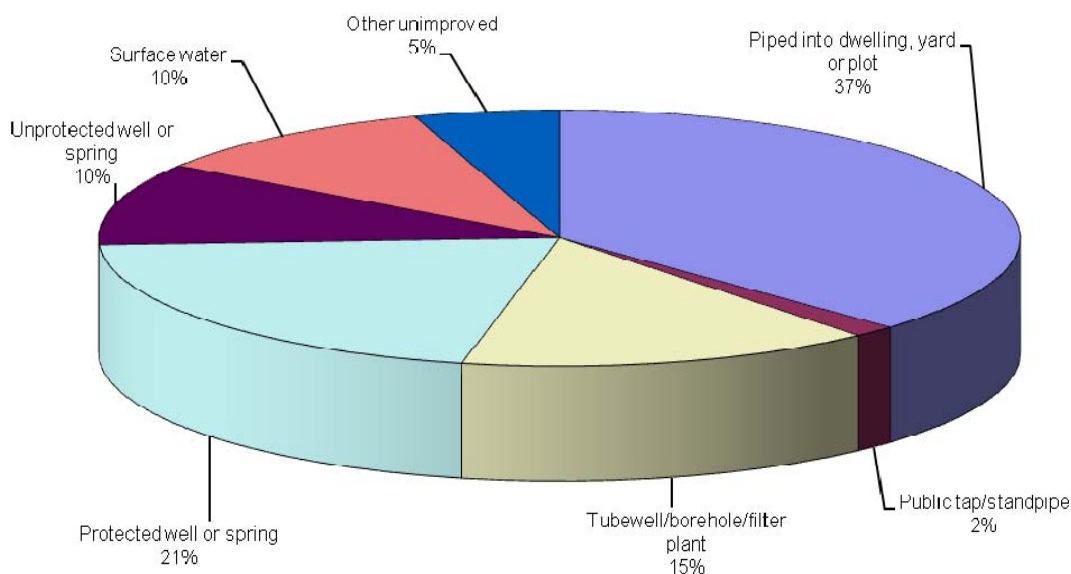
115. The distribution of the population by source of drinking water is shown in Table WS.1 and Figure WS.1. The population using *improved sources* of drinking water are those using any of the following types of supply: piped water (into dwelling, compound, yard or plot, public tap/standpipe), tube well/borehole, protected well, protected spring, and rainwater collection. Bottled water is considered as an improved water source only if the household is using an improved water source for other purposes, such as hand washing and cooking.

116. Overall, 74 percent of the population was using an improved source of drinking water – 91 percent in urban areas and 69 percent in rural areas. The situation in Nasirabad region was found considerably worse than in other regions; only 41 percent of the population in this region get its drinking water from an improved source.

117. The source of drinking water for the population varied strongly by region (see Table WS.1). In Quetta region, where there is higher concentration of people (especially in the provincial capital city of Quetta), 63 percent of the population was using drinking water that is piped into their dwelling or into their yard or plot. In contrast, in Sibi and Zhob regions, only 19 and 20 percent respectively were using piped water. A small minority (2 percent) got

piped water from their neighbours. Tube-well and borehole were more common in Kalat and Sibi regions where nearly 24 percent of the population got water for drinking whereas 32 percent of the population used drinking water from a protected well in Makran region. Rain-water which is an improved source of drinking water, was not common in Balochistan - used by less than 2 percent of the population. Nearly 7 percent of the population used water from unprotected wells. Households where the head had some education were more likely to use improved source of drinking water compared to those where the head of the household had no education. Similarly, the use of improved source of drinking water was positively related with the economic conditions of the households (51 percent among the poorest and 92 percent among the richest were using improved source of drinking water).

**Figure WS.1: Percentage distribution of household members by source of drinking water, Balochistan Province, Pakistan, 2010**



**Table WS.1: Use of improved water sources**  
**Percent distribution of household population according to main source of drinking water and percentage of household population using improved drinking water sources, Balochistan Province, Pakistan, 2010**

|                             |            | Main source of drinking water    |                     |                   |                        |              |                     |                |                  |                      |                    |                    |              |                             |                                                                           |               |            |            |              | Total       | Percentage using improved sources of drinking water [1] | Number of household members |
|-----------------------------|------------|----------------------------------|---------------------|-------------------|------------------------|--------------|---------------------|----------------|------------------|----------------------|--------------------|--------------------|--------------|-----------------------------|---------------------------------------------------------------------------|---------------|------------|------------|--------------|-------------|---------------------------------------------------------|-----------------------------|
|                             |            | Improved sources                 |                     |                   |                        |              |                     |                |                  |                      | Unimproved sources |                    |              |                             |                                                                           |               |            |            |              |             |                                                         |                             |
| Region                      | Area       | Piped into dwelling yard or plot | Piped into compound | Piped to neighbor | Public tap / standpipe | Filter Plant | Tube well, Borehole | Protected well | Protected spring | Rainwater collection | Unprotected well   | Unprotected spring | Tanker-truck | Cart with small tank / drum | Surface water (river, stream, dam, lake, pond, canal, irrigation channel) | Bottled water | Other      | Missing    |              |             |                                                         |                             |
| Region                      | Quetta     | 60.7                             | 2.1                 | 0.8               | 0.3                    | 0.1          | 12.9                | 9.5            | 2.4              | 0.5                  | 2.5                | 0.9                | 6.1          | 0.9                         | 0.2                                                                       | 0.0           | 0.1        | 0.1        | 100.0        | 89.2        | 21966                                                   |                             |
|                             | Kalat      | 24.4                             | 1.4                 | 2.0               | 1.8                    | 0.2          | 23.9                | 22.2           | 2.7              | 1.0                  | 11.4               | 4.7                | 1.6          | 0.6                         | 0.7                                                                       | 0.0           | 1.3        | 0.1        | 100.0        | 79.7        | 19510                                                   |                             |
|                             | Sibi       | 16.8                             | 2.4                 | 5.6               | 1.5                    | 0.4          | 23.7                | 18.8           | 4.8              | 2.1                  | 3.7                | 2.5                | 4.8          | 3.2                         | 9.5                                                                       | 0.0           | 0.2        | 0.0        | 100.0        | 76.0        | 8128                                                    |                             |
|                             | Zhob       | 16.0                             | 3.9                 | 2.8               | 3.5                    | 0.4          | 14.2                | 18.9           | 4.9              | 3.2                  | 10.4               | 9.4                | 1.8          | 0.8                         | 5.7                                                                       | 0.0           | 3.5        | 0.4        | 100.0        | 67.9        | 13430                                                   |                             |
|                             | Nasirabad  | 22.5                             | 3.9                 | 1.0               | 1.2                    | 2.0          | 5.7                 | 1.1            | 0.7              | 3.0                  | 2.4                | 2.7                | 0.9          | 0.9                         | 48.8                                                                      | 0.0           | 3.0        | 0.1        | 100.0        | 41.2        | 15142                                                   |                             |
|                             | Mekran     | 37.3                             | 1.1                 | 3.6               | 1.7                    | 0.1          | 3.6                 | 32.2           | 0.5              | 2.3                  | 11.2               | 1.6                | 3.1          | 0.1                         | 1.3                                                                       | 0.1           | 0.0        | 0.1        | 100.0        | 82.4        | 11041                                                   |                             |
| Area                        | Urban      | 73.7                             | 2.3                 | 1.6               | 1.1                    | 0.6          | 5.1                 | 6.0            | 0.1              | 0.1                  | 1.5                | 0.1                | 5.1          | 0.3                         | 1.6                                                                       | 0.0           | 0.8        | 0.0        | 100.0        | 90.6        | 20570                                                   |                             |
|                             | Rural      | 20.4                             | 2.5                 | 2.4               | 1.7                    | 0.5          | 16.8                | 18.9           | 3.3              | 2.3                  | 8.4                | 4.6                | 2.5          | 1.1                         | 13.1                                                                      | 0.0           | 1.5        | 0.2        | 100.0        | 68.6        | 68648                                                   |                             |
| Education of household head | None       | 24.7                             | 1.7                 | 2.3               | 1.6                    | 0.4          | 15.7                | 17.1           | 2.9              | 2.4                  | 8.8                | 4.7                | 3.0          | 1.0                         | 12.2                                                                      | 0.0           | 1.3        | 0.1        | 100.0        | 68.8        | 53554                                                   |                             |
|                             | Preschool  | 33.0                             | 37.7                | 0.0               | 0.0                    | 0.0          | 0.0                 | 7.5            | 0.0              | 0.0                  | 0.0                | 8.1                | 4.8          | 8.9                         | 0.0                                                                       | 0.0           | 0.0        | 0.0        | 100.0        | 78.2        | 99                                                      |                             |
|                             | Primary    | 40.4                             | 4.7                 | 0.7               | 1.1                    | 0.2          | 14.1                | 15.0           | 3.5              | 0.5                  | 2.9                | 2.4                | 2.7          | 1.0                         | 10.1                                                                      | 0.0           | 0.4        | 0.2        | 100.0        | 80.2        | 7450                                                    |                             |
|                             | Middle     | 38.0                             | 3.2                 | 1.7               | 1.5                    | 0.8          | 14.4                | 15.7           | 3.0              | 1.7                  | 3.9                | 2.3                | 2.6          | 1.0                         | 8.1                                                                       | 0.1           | 2.1        | 0.0        | 100.0        | 79.9        | 5620                                                    |                             |
|                             | Matric     | 40.2                             | 3.1                 | 3.0               | 1.5                    | 0.9          | 12.5                | 14.9           | 1.8              | 0.8                  | 4.8                | 1.8                | 3.0          | 0.7                         | 8.6                                                                       | 0.0           | 2.2        | 0.1        | 100.0        | 78.8        | 12026                                                   |                             |
|                             | Higher     | 57.4                             | 3.1                 | 2.0               | 1.6                    | 0.9          | 7.6                 | 12.1           | 0.7              | 0.4                  | 2.8                | 0.9                | 4.3          | 0.4                         | 4.3                                                                       | 0.1           | 1.1        | 0.3        | 100.0        | 85.8        | 10046                                                   |                             |
|                             | Madrassa   | 20.5                             | 0.2                 | 0.0               | 0.0                    | 0.0          | 17.6                | 7.7            | 4.6              | 7.4                  | 16.4               | 2.9                | 7.4          | 4.3                         | 6.2                                                                       | 0.0           | 4.8        | 0.0        | 100.0        | 58.0        | 250                                                     |                             |
|                             | Missing/DK | 62.0                             | 0.0                 | 0.0               | 0.0                    | 0.0          | 7.3                 | 6.9            | 0.0              | 0.0                  | 0.0                | 0.0                | 1.0          | 0.0                         | 22.9                                                                      | 0.0           | 0.0        | 0.0        | 100.0        | 76.2        | 173                                                     |                             |
| Wealth index quintiles      | Poorest    | 1.5                              | 0.6                 | 1.0               | 1.3                    | 0.2          | 10.1                | 23.6           | 6.2              | 6.1                  | 19.7               | 13.4               | 0.2          | 1.2                         | 13.2                                                                      | 0.0           | 1.8        | 0.0        | 100.0        | 50.5        | 17850                                                   |                             |
|                             | Second     | 9.6                              | 2.0                 | 2.5               | 1.8                    | 0.3          | 22.4                | 21.2           | 3.8              | 1.5                  | 7.8                | 2.6                | 1.4          | 0.9                         | 20.2                                                                      | 0.0           | 1.8        | 0.1        | 100.0        | 65.2        | 17836                                                   |                             |
|                             | Middle     | 26.3                             | 5.3                 | 3.0               | 1.9                    | 1.0          | 19.0                | 17.1           | 1.6              | 1.1                  | 5.1                | 1.1                | 3.0          | 1.3                         | 11.1                                                                      | 0.0           | 1.7        | 0.4        | 100.0        | 76.4        | 17843                                                   |                             |
|                             | Fourth     | 49.4                             | 2.8                 | 2.7               | 1.6                    | 0.3          | 14.1                | 12.7           | 1.0              | 0.2                  | 1.3                | 0.5                | 5.6          | 1.0                         | 5.7                                                                       | 0.0           | 1.1        | 0.0        | 100.0        | 84.7        | 17863                                                   |                             |
|                             | Richest    | 76.5                             | 1.5                 | 1.8               | 1.2                    | 0.8          | 4.9                 | 5.0            | 0.0              | 0.0                  | 0.2                | 0.2                | 5.3          | 0.2                         | 1.8                                                                       | 0.0           | 0.4        | 0.1        | 100.0        | 91.8        | 17827                                                   |                             |
| <b>Total</b>                |            | <b>32.7</b>                      | <b>2.4</b>          | <b>2.2</b>        | <b>1.5</b>             | <b>0.5</b>   | <b>14.1</b>         | <b>15.9</b>    | <b>2.5</b>       | <b>1.8</b>           | <b>6.8</b>         | <b>3.6</b>         | <b>3.1</b>   | <b>0.9</b>                  | <b>10.4</b>                                                               | <b>0.0</b>    | <b>1.4</b> | <b>0.1</b> | <b>100.0</b> | <b>73.7</b> | <b>89218</b>                                            |                             |

[1] MICS indicator 4.1; MDG indicator 7.8 [Note: 522 cases where head of the household has preschool education or Madrassa education or the information on education is missing or not known, are not shown]

## **7.2 In-house treatment of drinking water**

118. Use of in-house water treatment is presented in Table WS.2. Households were asked the ways they may be treating water at home to make it safer to drink; boiling, adding bleach or chlorine, using a water filter, and using solar disinfection were considered as proper treatment methods of drinking water. The Table WS.2 shows percentage of household members living in households using unimproved water sources but using appropriate water treatment methods. About 86 percent of the households reported that they do not use any water-treatment methods to make it safer for drinking. Among those who were getting water from any source, only seven percent reported to have been using appropriate water-treatment methods (boiling water; adding bleach/chlorine; using water filter; and solar disinfection), before use. Among households' members who were receiving drinking water from an unimproved source, less than four percent were applying treatment-method for making water safer.

119. Treatment of water varies among regions, urban-rural residence, educational levels and wealth quintiles. Among those getting drinking water from an un-improved source, 17 percent in Sibi region used an appropriate water treatment method while none used any method in Makran. Similarly, 7 percent of such persons used an appropriate method in urban areas compared to 3 percent in rural areas. The use of treatment procedures was higher among population with secondary and higher education compared to those who had either no or lesser education. Similar pattern was observed on the basis of wealth quintiles.

120. The amount of time it takes to obtain water is presented in Table WS.3 and the person who usually collected the water in Table WS.4. Note that these results refer to one roundtrip from home to drinking water source. Information on the number of trips made in one day was not collected.

121. Table WS.3 shows that in nearly 64 percent of households, the drinking water source was on the premises. For 13 percent of all households, it took less than 30 minutes to get to the water source and bring water, while 18 percent of households spent 30 minutes or more for this purpose. In rural areas 22 percent of the households spent 30 minutes or more in collecting water compared to 5 percent in urban areas. One striking finding is that over one-fourth of the households in Nasirabad region spent 30 minutes or more to go to a source and fetch drinking water.



**Table WS.2: Household water treatment**

**Percentage of household population by drinking water treatment method used in the household, and for household members living in households where an unimproved drinking water source is used, the percentage who are using an appropriate treatment method, Balochistan Province, Pakistan, 2010**

| Background characteristics  |           | Water treatment method used in the household |      |                       |                        |                  |                    |                         |                   | Number of household members | Percentage of household members in households using unimproved drinking water sources and using an appropriate water treatment method [1] | Number of household members in households using unimproved drinking water sources |
|-----------------------------|-----------|----------------------------------------------|------|-----------------------|------------------------|------------------|--------------------|-------------------------|-------------------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|                             |           | None                                         | Boil | Add bleach / chlorine | Strain through a cloth | Use water filter | Solar disinfection | Let it stand and settle | Other /Don't know |                             |                                                                                                                                           |                                                                                   |
| Region                      | Quetta    | 89.1                                         | 6.3  | 0.1                   | 2.8                    | 1.6              | 0.0                | 0.4                     | 0.1               | 21966                       | 8.4                                                                                                                                       | 2370                                                                              |
|                             | Kalat     | 91.1                                         | 3.4  | 0.5                   | 4.5                    | 0.1              | 0.2                | 2.5                     | 0.1               | 19510                       | 1.7                                                                                                                                       | 3969                                                                              |
|                             | Sibi      | 72.5                                         | 15.3 | 0.6                   | 5.6                    | 0.3              | 6.7                | 1.0                     | 0.0               | 8128                        | 17.3                                                                                                                                      | 1955                                                                              |
|                             | Zhob      | 95.3                                         | 2.1  | 0.7                   | 1.5                    | 0.0              | 0.3                | 0.1                     | 0.0               | 13430                       | 0.7                                                                                                                                       | 4316                                                                              |
|                             | Nasirabad | 67.8                                         | 2.1  | 0.1                   | 26.7                   | 2.0              | 0.4                | 1.7                     | 1.0               | 15142                       | 2.0                                                                                                                                       | 8905                                                                              |
|                             | Mekran    | 95.1                                         | 3.0  | 0.6                   | 3.9                    | 0.0              | 3.3                | 0.4                     | 0.1               | 11041                       | 0.0                                                                                                                                       | 1942                                                                              |
| Area                        | Urban     | 84.0                                         | 8.2  | 0.5                   | 6.2                    | 2.2              | 0.9                | 0.7                     | .33               | 20570                       | 7.3                                                                                                                                       | 1925                                                                              |
|                             | Rural     | 86.7                                         | 3.7  | 0.4                   | 7.8                    | 0.4              | 1.3                | 1.2                     | 0.2               | 68648                       | 3.1                                                                                                                                       | 21532                                                                             |
| Education of household head | None      | 88.4                                         | 3.4  | 0.3                   | 6.5                    | 0.2              | 1.0                | 1.2                     | 0.1               | 53554                       | 2.3                                                                                                                                       | 16879                                                                             |
|                             | Primary   | 88.5                                         | 2.8  | 0.1                   | 7.5                    | 1.5              | 0.4                | 0.4                     | 0.4               | 7450                        | 3.8                                                                                                                                       | 1473                                                                              |
|                             | Middle    | 82.1                                         | 5.6  | 0.7                   | 11.4                   | 0.1              | 1.5                | 1.2                     | 0.2               | 5620                        | 4.4                                                                                                                                       | 1128                                                                              |
|                             | Matric    | 82.2                                         | 6.4  | 0.7                   | 8.8                    | 1.1              | 1.8                | 0.9                     | 0.5               | 12026                       | 6.6                                                                                                                                       | 2553                                                                              |
|                             | Higher    | 79.6                                         | 11.0 | 0.7                   | 7.8                    | 3.7              | 2.0                | 0.7                     | 0.4               | 10046                       | 9.3                                                                                                                                       | 1425                                                                              |
| Wealth index quintiles      | Poorest   | 92.7                                         | .5   | 0.0                   | 6.2                    | 0.0              | 0.7                | 1.7                     | 0.0               | 17850                       | 0.6                                                                                                                                       | 8832                                                                              |
|                             | Second    | 88.3                                         | 1.1  | 0.4                   | 8.8                    | 0.1              | 0.6                | 1.4                     | 0.0               | 17836                       | 1.2                                                                                                                                       | 6215                                                                              |
|                             | Middle    | 86.9                                         | 3.6  | 0.3                   | 8.1                    | 0.2              | 0.9                | 0.6                     | 0.1               | 17843                       | 3.3                                                                                                                                       | 4213                                                                              |
|                             | Fourth    | 83.8                                         | 6.1  | 0.8                   | 7.3                    | 0.8              | 1.6                | 0.6                     | 0.3               | 17863                       | 13.4                                                                                                                                      | 2727                                                                              |
|                             | Richest   | 78.8                                         | 12.5 | 0.5                   | 6.5                    | 2.9              | 2.1                | 1.1                     | 0.7               | 17827                       | 11.9                                                                                                                                      | 1470                                                                              |
| Total                       |           | 86.1                                         | 4.8  | 0.4                   | 7.4                    | 0.8              | 1.2                | 1.1                     | 0.3               | 89218                       | 3.5                                                                                                                                       | 23457                                                                             |

[1] MICS indicator 4.2 [Note: 522 cases with preschool or madrassa education or missing information on education are not shown under water treatment method used while 168 cases of preschool or madrassa or missing information on education are not shown under households using unimproved drinking water source]

**Table WS.3: Time to source of drinking water**

**Percent distribution of household population according to time to go to source of drinking water, get water and return, for users of improved and unimproved drinking water sources, Balochistan Province, Pakistan, 2010**

|                             |           | Time to source of drinking water         |                      |                    |            |                                            |                      |                    |            | Total | Number of household members |
|-----------------------------|-----------|------------------------------------------|----------------------|--------------------|------------|--------------------------------------------|----------------------|--------------------|------------|-------|-----------------------------|
|                             |           | Users of improved drinking water sources |                      |                    |            | Users of unimproved drinking water sources |                      |                    |            |       |                             |
| Region                      |           | Water on premises                        | Less than 30 minutes | 30 minutes or more | Missing/DK | Water on premises                          | Less than 30 minutes | 30 minutes or more | Missing/DK |       |                             |
| Region                      | Quetta    | 79.7                                     | 2.9                  | 5.6                | 1.1        | 2.9                                        | 1.5                  | 4.9                | 1.5        | 100.0 | 21966                       |
|                             | Kalat     | 53.2                                     | 7.0                  | 15.8               | 3.7        | 6.8                                        | 2.5                  | 9.8                | 1.2        | 100.0 | 19510                       |
|                             | Sibi      | 57.9                                     | 13.8                 | 3.1                | 1.2        | 3.6                                        | 12.7                 | 6.1                | 1.7        | 100.0 | 8128                        |
|                             | Zhob      | 42.7                                     | 9.4                  | 11.1               | 4.7        | 7.4                                        | 6.5                  | 9.9                | 8.4        | 100.0 | 13430                       |
|                             | Nasirabad | 33.3                                     | 3.8                  | 3.6                | 0.5        | 9.4                                        | 18.7                 | 28.0               | 2.7        | 100.0 | 15142                       |
|                             | Mekran    | 72.2                                     | 4.7                  | 3.9                | 1.7        | 7.3                                        | 6.8                  | 2.6                | 0.9        | 100.0 | 11041                       |
| Area                        | Urban     | 86.8                                     | 1.0                  | 1.9                | 0.9        | 2.8                                        | 1.9                  | 3.4                | 1.3        | 100.0 | 20570                       |
|                             | Rural     | 48.8                                     | 7.7                  | 9.7                | 2.5        | 7.2                                        | 8.6                  | 12.6               | 3.0        | 100.0 | 68648                       |
| Education of household head | None      | 49.4                                     | 7.1                  | 9.8                | 2.5        | 6.8                                        | 8.0                  | 13.3               | 3.1        | 100.0 | 54076                       |
|                             | Primary   | 66.2                                     | 3.9                  | 8.4                | 1.6        | 2.7                                        | 5.3                  | 8.9                | 3.0        | 100.0 | 7450                        |
|                             | Middle    | 65.8                                     | 6.4                  | 5.6                | 2.1        | 4.9                                        | 7.8                  | 6.4                | 1.0        | 100.0 | 5620                        |
|                             | Matric    | 66.8                                     | 6.0                  | 4.4                | 1.5        | 7.0                                        | 5.9                  | 6.1                | 2.2        | 100.0 | 12026                       |
|                             | Higher    | 78.7                                     | 2.8                  | 2.9                | 1.5        | 4.7                                        | 4.4                  | 4.0                | 1.2        | 100.0 | 10046                       |
| Wealth index quintiles      | Poorest   | 20.6                                     | 8.0                  | 17.7               | 4.2        | 8.4                                        | 12.4                 | 23.6               | 5.1        | 100.0 | 17850                       |
|                             | Second    | 40.6                                     | 9.2                  | 12.5               | 2.8        | 8.9                                        | 9.4                  | 14.2               | 2.3        | 100.0 | 17836                       |
|                             | Middle    | 61.7                                     | 6.8                  | 6.1                | 1.8        | 7.3                                        | 6.8                  | 6.4                | 3.1        | 100.0 | 17843                       |
|                             | Fourth    | 75.6                                     | 5.1                  | 2.9                | 1.1        | 4.1                                        | 4.8                  | 5.0                | 1.3        | 100.0 | 17863                       |
|                             | Richest   | 89.1                                     | 1.5                  | 0.2                | 1.0        | 2.1                                        | 1.8                  | 3.1                | 1.2        | 100.0 | 17827                       |
| Total                       |           | 57.5                                     | 6.1                  | 7.9                | 2.2        | 6.2                                        | 7.1                  | 10.5               | 2.6        | 100.0 | 89218                       |

Note: 522 cases with preschool or madrassa or missing information of education of the head of the household are not shown.

**Table WS.4: Person collecting water**

**Percentage of households without drinking water on premises, and percent distribution of households without drinking water on premises according to the person usually collecting drinking water used in the household, Balochistan Province, Pakistan, 2010**

|                             |           | Percentage of households without drinking water on premises | Number of households | Person usually collecting drinking water |                           |                         |                       |      | Total | Number of households without drinking water on premises |         |
|-----------------------------|-----------|-------------------------------------------------------------|----------------------|------------------------------------------|---------------------------|-------------------------|-----------------------|------|-------|---------------------------------------------------------|---------|
|                             |           |                                                             |                      | Adult woman (age 15+ years)              | Adult man (age 15+ years) | Female child (under 15) | Male child (under 15) | DK   |       |                                                         | Missing |
| Region                      | Quetta    | 16.6                                                        | 2715                 | 55.3                                     | 24.7                      | 5.7                     | 2.6                   | 8.9  | 2.8   | 100.0                                                   | 451     |
|                             | Kalat     | 40.7                                                        | 2835                 | 65.7                                     | 22.7                      | 4.1                     | 3.4                   | 2.5  | 1.6   | 100.0                                                   | 1154    |
|                             | Sibi      | 37.6                                                        | 997                  | 65.5                                     | 26.1                      | 1.0                     | 4.9                   | 0.2  | 2.4   | 100.0                                                   | 375     |
|                             | Zhob      | 50.6                                                        | 1677                 | 44.8                                     | 37.8                      | 5.5                     | 7.8                   | 2.5  | 1.6   | 100.0                                                   | 849     |
|                             | Nasirabad | 58.8                                                        | 1849                 | 55.7                                     | 39.6                      | 1.5                     | 1.4                   | 0.6  | 1.2   | 100.0                                                   | 1086    |
|                             | Mekran    | 21.2                                                        | 1539                 | 46.8                                     | 28.9                      | 10.9                    | 4.0                   | 0.7  | 8.7   | 100.0                                                   | 326     |
| Area                        | Urban     | 9.3                                                         | 2720                 | 24.1                                     | 56.2                      | 1.5                     | 4.0                   | 11.6 | 2.5   | 100.0                                                   | 252     |
|                             | Rural     | 44.9                                                        | 8892                 | 58.4                                     | 29.4                      | 4.3                     | 3.8                   | 1.8  | 2.2   | 100.0                                                   | 3990    |
| Education of household head | None      | 44.3                                                        | 7006                 | 58.3                                     | 30.3                      | 4.1                     | 3.3                   | 1.8  | 2.1   | 100.0                                                   | 3127    |
|                             | Primary   | 31.9                                                        | 884                  | 58.3                                     | 24.1                      | 5.8                     | 5.4                   | 3.3  | 3.1   | 100.0                                                   | 282     |
|                             | Middle    | 30.7                                                        | 702                  | 53.9                                     | 30.7                      | 3.8                     | 7.8                   | 3.1  | 0.7   | 100.0                                                   | 216     |
|                             | Matric    | 25.5                                                        | 1606                 | 50.0                                     | 36.4                      | 3.4                     | 4.4                   | 2.9  | 2.8   | 100.0                                                   | 409     |
|                             | Higher    | 15.4                                                        | 1349                 | 40.9                                     | 41.1                      | 3.3                     | 4.4                   | 7.1  | 3.1   | 100.0                                                   | 208     |
| Wealth index quintiles      | Poorest   | 71.1                                                        | 2528                 | 61.4                                     | 25.6                      | 5.5                     | 4.5                   | 1.1  | 1.9   | 100.0                                                   | 1798    |
|                             | Second    | 49.3                                                        | 2402                 | 59.2                                     | 30.6                      | 4.1                     | 3.1                   | .9   | 2.0   | 100.0                                                   | 1184    |
|                             | Middle    | 29.5                                                        | 2270                 | 51.9                                     | 35.7                      | 2.6                     | 4.6                   | 2.9  | 2.2   | 100.0                                                   | 671     |
|                             | Fourth    | 19.2                                                        | 2185                 | 50.2                                     | 37.1                      | 2.0                     | 2.6                   | 5.6  | 2.5   | 100.0                                                   | 420     |
|                             | Richest   | 7.6                                                         | 2227                 | 16.4                                     | 57.6                      | 1.4                     | 1.8                   | 15.7 | 7.2   | 100.0                                                   | 170     |
| Total                       |           | 36.5                                                        | 11612                | 56.4                                     | 31.0                      | 4.1                     | 3.9                   | 2.4  | 2.2   | 100.0                                                   | 4242    |

Note: 22 cases with preschool or madrassa or missing information on education of head of household are not included

122. Table WS.4 shows that for the majority of households (56 percent), an adult female is usually the person collecting the water, when the source of drinking water is not on the premises. Adult men collect water in nearly one-third (31 percent) of cases, while for the rest of the households, female or male children under age 15 collect water (8 percent). Adult women living in rural areas, those who had no formal education, and poorest were more likely to bring water from a distant source compared to urban dwellers, educated and richer counterparts.

### **7.3 Use of sanitation facilities**

123. Inadequate disposal of human excreta and personal hygiene is associated with a range of diseases including diarrhoeal diseases and polio. An improved sanitation facility is defined as one that hygienically separates human excreta from human contact. Improved sanitation can reduce diarrheal diseases by more than a third, and can significantly lessen the adverse health impacts of other disorders responsible for death and disease among millions of children in developing countries. Improved sanitation facilities for excreta disposal include flush or pour flush to a piped sewer system, septic tank, or latrine; ventilated improved pit latrine, pit latrine with slab, and composting toilet.

124. Seventy percent of the population was found living in households using improved sanitation facilities (Table WS.5). This proportion is much higher in urban (93 percent) compared to urban areas (63 percent). Residents of Zhob were less likely than others to use improved facilities. The Table WS.5 indicates that use of improved sanitation facilities was strongly correlated with wealth, urban residence and educational level. The most common facilities in urban areas were proper flush system and ventilated improved pit latrines whereas in rural areas over one-third (28 percent) population had no facility at all. The findings show that 41 percent of population living in Zhob region had no toilet facility at all. Similarly, majority of the poorest segments of the society (62 percent) had no toilet facility compared to less than one percent among the richest.

125. Access to safe drinking-water and to basic sanitation is measured by the proportion of population using an improved sanitation facility. MDGs and WHO / UNICEF Joint Monitoring Program (JMP) for Water Supply and Sanitation classify households as using an unimproved sanitation facility if they are using otherwise acceptable sanitation facilities but sharing a facility between two or more households or using a public toilet facility (WHO/UNICEF, 208).

126. Table WS.6 shows that 61 percent of the household population had access to an improved unshared sanitation facility while nearly 8 percent of the population was using improved sanitation facilities but on sharing basis. Seven percent of the population was using unimproved sanitation facilities while the remaining 23 percent of the population was defecating in open fields and bushes. The use of unshared improved sanitation facility was more common in Makran (81 percent) followed by Quetta region (74 percent) and relatively less common in Zhob region (42 percent). A substantial proportion (41 percent) of population in Zhob region was using open fields and bushes for defecation. Unshared improved sanitation was higher in urban compared to rural areas (82 vs 55 percent), among highly educated compared to uneducated (80 vs 55 percent), and among the richest compared to the poorest household population (86 vs 27 percent). Overall, 62 percent of the poorest household population had no access to any sanitation facility.

**Table WS.5: Types of sanitation facilities**  
**Percent distribution of household population according to type of toilet facility used by the household, Balochistan Province, Pakistan, 2010**

|                             |            | Type of toilet facility used by household |                      |                        |                         |                                              |                                       |                                |                   |                                     |        |                         |       |         |                          | Total | Number of household members |
|-----------------------------|------------|-------------------------------------------|----------------------|------------------------|-------------------------|----------------------------------------------|---------------------------------------|--------------------------------|-------------------|-------------------------------------|--------|-------------------------|-------|---------|--------------------------|-------|-----------------------------|
|                             |            | Improved sanitation facility              |                      |                        |                         |                                              |                                       | Unimproved sanitation facility |                   |                                     |        |                         |       |         |                          |       |                             |
|                             |            | Flush to piped sewer system               | Flush to septic tank | Flush to pit (latrine) | Flush to somewhere else | Flush to unknown place / Not sure / DK where | Ventilated Improved Pit latrine (VIP) | Pit latrine with slab          | Composting toilet | Pit latrine without slab / Open pit | Bucket | Public/communal latrine | Other | Missing | No facility, Bush, Field |       |                             |
| Region                      | Quetta     | 13.6                                      | 7.1                  | 17.2                   | 14.0                    | 3.9                                          | 15.9                                  | 8.4                            | 0.2               | 1.0                                 | 9.4    | 0.0                     | 0.4   | 0.3     | 8.5                      | 100.0 | 21966                       |
|                             | Kalat      | 3.2                                       | 2.2                  | 19.5                   | 1.3                     | 1.6                                          | 20.2                                  | 21.2                           | 0.7               | 1.8                                 | 0.2    | 0.1                     | 0.3   | 0.5     | 27.2                     | 100.0 | 19510                       |
|                             | Sibi       | 5.4                                       | 3.9                  | 32.2                   | 5.2                     | 6.7                                          | 11.2                                  | 5.3                            | 0.5               | 1.9                                 | 1.8    | 0.3                     | 0.3   | 0.9     | 24.5                     | 100.0 | 8128                        |
|                             | Zhob       | 3.9                                       | 4.4                  | 11.7                   | 1.3                     | 2.3                                          | 17.3                                  | 8.4                            | 0.7               | 1.5                                 | 4.2    | 0.4                     | 1.4   | 1.6     | 41.0                     | 100.0 | 13430                       |
|                             | Nasirabad  | 10.6                                      | 5.8                  | 10.0                   | 0.4                     | 1.2                                          | 20.5                                  | 7.9                            | 3.4               | 5.3                                 | 1.1    | 0.9                     | 0.6   | 1.1     | 31.1                     | 100.0 | 15142                       |
|                             | Mekran     | 2.7                                       | 2.9                  | 42.8                   | 0.9                     | 1.6                                          | 29.2                                  | 7.1                            | 0.1               | 2.3                                 | 0.1    | 0.0                     | 0.2   | 0.8     | 9.4                      | 100.0 | 11041                       |
| Area                        | Urban      | 22.4                                      | 12.2                 | 28.1                   | 9.4                     | 4.3                                          | 9.2                                   | 7.2                            | 0.2               | 1.3                                 | 0.5    | 0.0                     | 0.1   | 0.6     | 4.6                      | 100.0 | 20570                       |
|                             | Rural      | 2.7                                       | 2.3                  | 17.8                   | 3.1                     | 2.2                                          | 22.0                                  | 11.7                           | 1.2               | 2.5                                 | 4.2    | 0.3                     | 0.6   | 0.9     | 28.4                     | 100.0 | 68648                       |
| Education of household head | None       | 4.7                                       | 2.6                  | 19.0                   | 3.2                     | 2.3                                          | 18.9                                  | 11.0                           | 1.1               | 2.6                                 | 3.2    | 0.4                     | 0.6   | 0.8     | 29.7                     | 100.0 | 53903                       |
|                             | Primary    | 5.0                                       | 4.4                  | 14.1                   | 5.1                     | 3.9                                          | 23.1                                  | 19.3                           | 0.7               | 2.0                                 | 4.9    | 0.2                     | 0.3   | 0.7     | 16.2                     | 100.0 | 7450                        |
|                             | Middle     | 7.6                                       | 3.4                  | 19.9                   | 9.9                     | 3.5                                          | 20.9                                  | 8.4                            | 0.3               | 2.5                                 | 6.0    | 0.0                     | 0.3   | 0.4     | 16.8                     | 100.0 | 5620                        |
|                             | Matric     | 10.9                                      | 6.3                  | 24.1                   | 6.6                     | 2.6                                          | 19.7                                  | 8.6                            | 0.9               | 1.8                                 | 3.5    | 0.2                     | 0.3   | 0.9     | 13.5                     | 100.0 | 12026                       |
|                             | Higher     | 17.9                                      | 14.4                 | 26.8                   | 6.3                     | 3.1                                          | 15.1                                  | 6.0                            | 0.5               | 1.0                                 | 1.2    | 0.0                     | 0.4   | 10.1    | 6.2                      | 100.0 | 10046                       |
|                             | Missing/DK | 16.8                                      | 2.3                  | 25.9                   | 10.2                    | 3.4                                          | 26.5                                  | 5.6                            | 0.0               | 0.0                                 | 0.0    | 0.0                     | 0.0   | 0.0     | 9.3                      | 100.0 | 173                         |
| Wealth index quintiles      | Poorest    | 0.0                                       | 0.0                  | 3.1                    | 0.2                     | 0.4                                          | 16.1                                  | 9.2                            | 1.5               | 3.2                                 | 2.5    | 0.4                     | 0.3   | 0.6     | 62.4                     | 100.0 | 17850                       |
|                             | Second     | 0.5                                       | 1.0                  | 12.7                   | 0.7                     | 1.0                                          | 29.7                                  | 12.5                           | 1.9               | 3.9                                 | 4.6    | 0.4                     | 1.2   | 1.2     | 28.7                     | 100.0 | 17836                       |
|                             | Middle     | 2.0                                       | 2.0                  | 25.7                   | 2.0                     | 1.9                                          | 27.1                                  | 15.2                           | 0.4               | 2.2                                 | 4.7    | 0.2                     | 0.5   | 1.0     | 15.2                     | 100.0 | 17843                       |
|                             | Fourth     | 6.7                                       | 6.1                  | 32.5                   | 6.4                     | 3.8                                          | 16.6                                  | 13.0                           | 0.8               | 1.5                                 | 3.8    | 0.3                     | 0.4   | 0.5     | 7.5                      | 100.0 | 17863                       |
|                             | Richest    | 27.1                                      | 13.8                 | 26.9                   | 13.7                    | 6.2                                          | 5.8                                   | 3.4                            | 0.0               | 0.3                                 | 1.1    | 0.0                     | 0.2   | 0.8     | 0.8                      | 100.0 | 17827                       |
| Total                       |            | 7.3                                       | 4.6                  | 20.2                   | 4.6                     | 2.7                                          | 19.0                                  | 10.7                           | 0.9               | 2.2                                 | 3.3    | 0.3                     | 0.5   | 0.8     | 22.9                     | 100.0 | 89218                       |

Note: 522 cases with educational level of preschool or madrassa or missing information /DK are not shown.

**Table WS.6: Use and sharing of sanitation facilities**  
**Percent distribution of household population by use of private and public sanitation facilities and use of shared facilities, by users of improved and unimproved sanitation facilities,**  
**Balochistan Province, Pakistan, 2010**

|                             |            | Users of improved sanitation facilities |                 |                                 |                                   |            | Users of unimproved sanitation facilities |                 |                                 |            | Open defecation (no facility, bush field) | Total | Number of household members |
|-----------------------------|------------|-----------------------------------------|-----------------|---------------------------------|-----------------------------------|------------|-------------------------------------------|-----------------|---------------------------------|------------|-------------------------------------------|-------|-----------------------------|
|                             |            | Not shared [1]                          | Public facility | Shared by: 5 households or less | Shared by: More than 5 households | Missing/DK | Not shared                                | Public facility | Shared by: 5 households or less | Missing/DK |                                           |       |                             |
| Region                      | Quetta     | 74.4                                    | 4.9             | 0.9                             | 0.0                               | 0.2        | 10.9                                      | 0.1             | 0.2                             | 0.0        | 8.5                                       | 100.0 | 21966                       |
|                             | Kalat      | 58.1                                    | 10.7            | 0.3                             | 0.2                               | 0.6        | 2.4                                       | 0.5             | 0.0                             | 0.0        | 27.2                                      | 100.0 | 19510                       |
|                             | Sibi       | 66.7                                    | 3.5             | 0.2                             | 0.0                               | 0.0        | 4.8                                       | 0.3             | 0.0                             | 0.0        | 24.5                                      | 100.0 | 8128                        |
|                             | Zhob       | 41.5                                    | 8.1             | 0.3                             | 0.0                               | 0.1        | 8.3                                       | 0.6             | 0.1                             | 0.0        | 41.0                                      | 100.0 | 13430                       |
|                             | Nasirabad  | 47.6                                    | 10.5            | 0.4                             | 0.0                               | 1.3        | 7.3                                       | 1.4             | 0.2                             | 0.1        | 31.1                                      | 100.0 | 15142                       |
|                             | Mekran     | 81.2                                    | 3.3             | 0.1                             | 0.2                               | 2.5        | 3.1                                       | 0.3             | 0.0                             | 0.0        | 9.4                                       | 100.0 | 11041                       |
| Area                        | Urban      | 81.5                                    | 10.6            | 0.6                             | 0.0                               | 0.2        | 2.1                                       | 0.4             | 0.0                             | 0.0        | 4.6                                       | 100.0 | 20570                       |
|                             | Rural      | 55.4                                    | 6.3             | 0.4                             | 0.1                               | 0.9        | 7.8                                       | 0.6             | 0.1                             | 0.0        | 28.4                                      | 100.0 | 68648                       |
| Education of household head | None       | 54.6                                    | 7.0             | 0.4                             | 0.0                               | 0.6        | 6.8                                       | 0.7             | 0.1                             | 0.0        | 29.7                                      | 100.0 | 53554                       |
|                             | Preschool  | 58.7                                    | 8.7             | 0.0                             | 0.0                               | 0.0        | 0.0                                       | 0.0             | 0.0                             | 0.0        | 32.6                                      | 100.0 | 99                          |
|                             | Primary    | 67.6                                    | 6.9             | 0.3                             | 0.0                               | 0.8        | 8.0                                       | 0.1             | 0.1                             | 0.0        | 16.2                                      | 100.0 | 7450                        |
|                             | Middle     | 64.7                                    | 7.8             | 0.9                             | 0.2                               | 0.4        | 8.8                                       | 0.1             | 0.3                             | 0.0        | 16.8                                      | 100.0 | 5620                        |
|                             | Matric     | 71.0                                    | 7.5             | 0.3                             | 0.2                               | 0.8        | 6.4                                       | 0.3             | 0.0                             | 0.0        | 13.5                                      | 100.0 | 12026                       |
|                             | Higher     | 79.8                                    | 8.3             | 0.5                             | 0.1                               | 1.3        | 3.3                                       | 0.3             | 0.0                             | 0.2        | 6.2                                       | 100.0 | 10046                       |
|                             | Madrassa   | 54.6                                    | 5.6             | 1.7                             | 0.0                               | 0.0        | 2.4                                       | 0.0             | 0.0                             | 0.0        | 35.7                                      | 100.0 | 250                         |
|                             | Missing/DK | 82.2                                    | 3.2             | 5.3                             | 0.0                               | 0.0        | 0.0                                       | 0.0             | 0.0                             | 0.0        | 9.3                                       | 100.0 | 173                         |
| Wealth index quintiles      | Poorest    | 26.6                                    | 3.1             | 0.2                             | 0.0                               | 0.7        | 6.0                                       | 0.8             | 0.1                             | 0.0        | 62.4                                      | 100.0 | 17850                       |
|                             | Second     | 52.8                                    | 5.6             | 0.6                             | 0.1                               | 1.0        | 10.6                                      | 0.6             | 0.2                             | 0.0        | 28.7                                      | 100.0 | 17836                       |
|                             | Middle     | 66.9                                    | 7.9             | 0.3                             | 0.2                               | 0.9        | 7.6                                       | 0.8             | 0.1                             | 0.1        | 15.2                                      | 100.0 | 17843                       |
|                             | Fourth     | 75.0                                    | 9.6             | 0.6                             | 0.0                               | 0.7        | 5.9                                       | 0.5             | 0.1                             | 0.0        | 7.5                                       | 100.0 | 17863                       |
|                             | Richest    | 86.0                                    | 10.1            | 0.5                             | 0.1                               | 0.3        | 2.4                                       | 0.0             | 0.0                             | 0.0        | 0.8                                       | 100.0 | 17827                       |
| Total                       |            | 61.4                                    | 7.3             | 0.4                             | 0.1                               | 0.7        | 6.5                                       | 0.5             | 0.1                             | 0.0        | 22.9                                      | 100.0 | 89218                       |

[1] MICS indicator 4.3; MDG indicator 7.9

Note: 522 cases with preschool or madrassa or missing information on educational level are not shown

#### **7.4 Disposal of child's faeces**

127. Safe disposal of a child's faeces is disposing of the stool using a toilet or by rinsing the stool into a toilet or latrine. The MICS indicator for the safe disposal of a child faeces looks at whether or not a child's (up to age two years) most recent stool (at the time of survey interview) was disposed into a toilet or rinsed in a toilet or latrine. Table WS.7 shows that faeces of nearly one-quarter (23 percent) of children aged 0-2 years was safely disposed of. The proportion of safe disposal was higher in Quetta region (38 percent) and lowest in Zhob (12 percent). Overall, in 50 percent cases the faeces was either thrown into garbage or left in the open. Such practice was more common among rural (55 percent), uneducated (53 percent), and the poorest (68 percent).

#### **7.5 Drinking water and sanitation facilities**

128. Table WS.8 presents the percentages of household population by use of improved drinking water sources and sanitation facilities. Overall, 74 percent of the household population had an improved source of drinking water and 61 percent were using improved sanitary means of excreta disposal. Half of the population (50 percent) in Balochistan had improved sources of drinking water as well as improved sanitary means of excreta disposal. The proportion of such population was highest in Makran region (70 percent), among urban residents (75 percent), and those who were in the richest wealth quintile (79 percent).

**Table WS.7: Disposal of child's faeces**

**Percent distribution of children age 0-2 years according to place of disposal of child's faeces, and the percentage of children age 0-2 years whose stools were disposed of safely the last time the child passed stools, Balochistan Province, Pakistan 2010**

|                                         |                 | Place of disposal of child's faeces |                                     |                                  |                                   |        |                  |       |     |         | Total | Percentage of children whose stools were disposed of safely [1] | Number of children age 0-2 years |
|-----------------------------------------|-----------------|-------------------------------------|-------------------------------------|----------------------------------|-----------------------------------|--------|------------------|-------|-----|---------|-------|-----------------------------------------------------------------|----------------------------------|
|                                         |                 | Child used toilet / latrine         | Put / Rinsed into toilet or latrine | Put / Rinsed into drain or ditch | Thrown into garbage (solid waste) | Buried | Left in the open | Other | DK  | Missing |       |                                                                 |                                  |
| Type of sanitation facility in dwelling | Improved        | 6.7                                 | 22.1                                | 17.6                             | 25.9                              | 3.7    | 15.7             | 1.1   | 1.8 | 5.5     | 100.0 | 28.8                                                            | 3234                             |
|                                         | Unimproved      | 8.2                                 | 8.9                                 | 13.6                             | 35.3                              | 2.9    | 23.7             | 1.0   | 3.5 | 2.9     | 100.0 | 17.1                                                            | 431                              |
|                                         | Open defecation | 2.7                                 | 5.0                                 | 11.9                             | 38.5                              | 5.0    | 30.1             | 1.7   | 1.7 | 3.4     | 100.0 | 7.7                                                             | 1164                             |
| Region                                  | Quetta          | 13.2                                | 24.8                                | 21.9                             | 24.2                              | 0.9    | 8.4              | 0.1   | 2.0 | 4.5     | 100.0 | 38.0                                                            | 1378                             |
|                                         | Kalat           | 3.1                                 | 14.5                                | 15.9                             | 22.4                              | 2.8    | 31.9             | 0.7   | 2.4 | 6.4     | 100.0 | 17.6                                                            | 1023                             |
|                                         | Sibi            | 2.5                                 | 12.4                                | 19.6                             | 31.5                              | 7.8    | 21.5             | 0.6   | 2.3 | 1.8     | 100.0 | 14.9                                                            | 346                              |
|                                         | Zhob            | 2.8                                 | 9.2                                 | 14.2                             | 46.1                              | 0.9    | 19.2             | 0.2   | 2.1 | 5.3     | 100.0 | 12.0                                                            | 806                              |
|                                         | Nasirabad       | 4.0                                 | 12.5                                | 9.9                              | 32.8                              | 6.3    | 23.0             | 4.9   | 1.7 | 4.9     | 100.0 | 16.6                                                            | 900                              |
|                                         | Mekran          | 0.6                                 | 24.6                                | 8.6                              | 26.2                              | 15.3   | 21.0             | 0.9   | 0.0 | 2.7     | 100.0 | 25.2                                                            | 375                              |
| Area                                    | Urban           | 10.8                                | 36.2                                | 12.8                             | 20.9                              | 1.5    | 9.9              | 1.1   | 2.3 | 4.6     | 100.0 | 46.9                                                            | 1063                             |
|                                         | Rural           | 4.5                                 | 11.4                                | 16.8                             | 32.3                              | 4.6    | 22.6             | 1.3   | 1.8 | 4.8     | 100.0 | 15.9                                                            | 3766                             |
| Mother's education                      | None            | 4.7                                 | 14.1                                | 16.7                             | 30.9                              | 3.9    | 21.9             | 1.1   | 1.9 | 4.8     | 100.0 | 18.8                                                            | 4058                             |
|                                         | Primary         | 14.9                                | 27.5                                | 15.7                             | 24.0                              | 1.3    | 11.7             | 1.3   | 0.5 | 3.1     | 100.0 | 42.4                                                            | 237                              |
|                                         | Middle          | 7.7                                 | 38.8                                | 15.3                             | 18.6                              | 0.0    | 7.3              | 4.1   | 2.6 | 5.7     | 100.0 | 46.5                                                            | 120                              |
|                                         | Matric          | 6.6                                 | 30.6                                | 11.1                             | 20.4                              | 6.6    | 13.6             | 1.1   | 2.8 | 7.2     | 100.0 | 37.2                                                            | 225                              |
|                                         | Higher          | 19.0                                | 31.5                                | 3.9                              | 29.0                              | 6.6    | 1.4              | 3.4   | 3.3 | 2.0     | 100.0 | 50.5                                                            | 189                              |
| Wealth index quintiles                  | Poorest         | 2.4                                 | 5.7                                 | 11.4                             | 36.2                              | 5.4    | 31.4             | 1.0   | 1.9 | 4.5     | 100.0 | 8.1                                                             | 1018                             |
|                                         | Second          | 2.9                                 | 9.8                                 | 17.2                             | 33.2                              | 4.9    | 24.4             | 1.3   | 1.3 | 5.0     | 100.0 | 12.7                                                            | 1005                             |
|                                         | Middle          | 3.5                                 | 11.9                                | 22.8                             | 28.3                              | 4.8    | 21.0             | 0.8   | 2.0 | 4.9     | 100.0 | 15.4                                                            | 969                              |
|                                         | Fourth          | 6.8                                 | 18.0                                | 17.5                             | 32.2                              | 3.1    | 14.9             | 1.1   | 2.5 | 3.9     | 100.0 | 24.7                                                            | 926                              |
|                                         | Richest         | 14.7                                | 41.0                                | 10.4                             | 17.8                              | 1.0    | 5.6              | 2.1   | 1.9 | 5.4     | 100.0 | 55.7                                                            | 910                              |
| Total                                   |                 | 5.9                                 | 16.8                                | 15.9                             | 29.8                              | 3.9    | 19.8             | 1.2   | 1.9 | 4.8     | 100.0 | 22.7                                                            | 4829                             |

[1] MICS indicator 4.4

Note: 10 cases of preschool and madrassa level of education are not shown



**Table WS.8: Use of improved water and improved sanitation facilities**  
 Percentage of household population using both improved drinking water sources and improved sanitation facilities,  
 Balochistan Province, Pakistan, 2010

|                                    | Percentage of household population:                   |                                                   |                                                                             | Number of household members |
|------------------------------------|-------------------------------------------------------|---------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------|
|                                    | Using improved sources of drinking water <sup>1</sup> | Using improved sanitation facilities <sup>2</sup> | Using improved sources of drinking water and improved sanitation facilities |                             |
| <b>Region</b>                      |                                                       |                                                   |                                                                             |                             |
| Quetta                             | 89.2                                                  | 74.4                                              | 68.7                                                                        | 21966                       |
| Kalat                              | 79.6                                                  | 58.1                                              | 49.8                                                                        | 19510                       |
| Sibi                               | 76.0                                                  | 66.7                                              | 55.0                                                                        | 8128                        |
| Zhob                               | 67.9                                                  | 41.5                                              | 31.6                                                                        | 13430                       |
| Nasirabad                          | 41.2                                                  | 47.6                                              | 24.9                                                                        | 15142                       |
| Makran                             | 82.4                                                  | 81.2                                              | 69.6                                                                        | 11041                       |
| <b>Area</b>                        |                                                       |                                                   |                                                                             |                             |
| Urban                              | 90.7                                                  | 81.5                                              | 74.7                                                                        | 20570                       |
| Rural                              | 68.7                                                  | 55.4                                              | 43.1                                                                        | 68648                       |
| <b>Education of household head</b> |                                                       |                                                   |                                                                             |                             |
| None                               | 68.8                                                  | 54.6                                              | 42.5                                                                        | 53554                       |
| Primary                            | 80.3                                                  | 67.6                                              | 57.9                                                                        | 7450                        |
| Middle                             | 79.9                                                  | 64.7                                              | 55.4                                                                        | 5620                        |
| Secondary                          | 78.7                                                  | 71.0                                              | 61.3                                                                        | 12026                       |
| Higher                             | 85.8                                                  | 79.8                                              | 71.5                                                                        | 10046                       |
| <b>Wealth index quintile</b>       |                                                       |                                                   |                                                                             |                             |
| Poorest                            | 50.6                                                  | 26.6                                              | 15.6                                                                        | 17850                       |
| Second                             | 65.1                                                  | 52.8                                              | 37.7                                                                        | 17836                       |
| Middle                             | 76.4                                                  | 66.9                                              | 54.4                                                                        | 17843                       |
| Fourth                             | 84.7                                                  | 75.0                                              | 64.9                                                                        | 17863                       |
| Richest                            | 91.8                                                  | 86.0                                              | 79.4                                                                        | 17827                       |
| <b>Total</b>                       | 73.7                                                  | 61.4                                              | 50.4                                                                        | 89218                       |

<sup>1</sup> MICS indicator 4.1; MDG indicator 7.8

<sup>2</sup> MICS indicator 4.3; MDG indicator 7.9

Note: 522 cases of preschool, madrassa or missing information/DK are not shown

# VIII **R**eproductive Health

129. The data and information presented in this chapter was collected from ever-married women of reproductive age except for contraception which was collected from currently married women of reproductive age.

## **8.1 Early child bearing**

130. Sexual activity and childbearing early in life carries significant risks for young people all around the world. Table RH.1 presents some early childbearing indicators for women age 15-19 and 20-24 while Table RH.2 presents the trends for early childbearing. As shown in Table RH.1, slightly over 2 percent of women age 15-19 already had a birth, 2 percent were pregnant with their first child, over 4 percent had begun childbearing and half a percent had a live birth before age 15. In Nasirabad region, nearly 5 percent and in Sibi 4 percent women age 15-19 already had a live birth while in Quetta region 1 percent of women in the same age group had a live birth. Urban-rural differentials are nonexistent. Differentials are visible on the basis of education and wealth quintiles. Over 3 percent women with no education had already given birth to a live child compared to 1 percent women with higher education. Similarly 3 percent of the poorest women age 15-19 had already given birth compared to the 1 percent among the richest.

131. Table RH.1 also shows that 11 percent of ever married women aged 20-24 had a live birth before they were 18 years of age. Highest proportion of such women was noted in Kalat region and the lowest in Quetta. The women living in rural areas, those who were the poorest and uneducated were more likely to begin childbearing before of age 18 years.

132. Table RH.2 shows that compared to younger ever married women, older women were more likely to begin childbearing at an early age. Higher percentage of women age 30-34 reported that they had a live birth before age 15 compared to all other age groups. The pattern however, was different in urban area where the highest proportion of women age 40-44 reported a live birth before age 15. Those reporting a live birth before age 18, the pattern were similar among urban and rural women of reproductive age.

**Table RH.1: Early childbearing**  
**Percentage of ever married women age 15-19 who have had a live birth or who are pregnant with the first child;**  
**percentage of ever married women age 15-19 who have begun childbearing before age 15, and the percentage of ever**  
**married women age 20-24 who have had a live birth before age 18, Balochistan Province, Pakistan, 2010**

|                               |           | Ever married women age 15-19 |                               |                         |                                     | Number of ever married women age 15-19 | Percentage of ever married women age 20-24 who have had a live birth before age 18<br>[1] | Number of ever married women age 20-24 |
|-------------------------------|-----------|------------------------------|-------------------------------|-------------------------|-------------------------------------|----------------------------------------|-------------------------------------------------------------------------------------------|----------------------------------------|
|                               |           | Have had a live birth        | Are pregnant with first child | Have begun childbearing | Have had a live birth before age 15 |                                        |                                                                                           |                                        |
| <b>Region</b>                 | Quetta    | 0.9                          | 1.6                           | 2.5                     | 0.0                                 | 1,357                                  | 6.5                                                                                       | 931                                    |
|                               | Kalat     | 2.5                          | 2.3                           | 4.8                     | 0.6                                 | 824                                    | 14.2                                                                                      | 645                                    |
|                               | Sibi      | 4.1                          | 0.5                           | 4.5                     | 0.3                                 | 199                                    | 9.6                                                                                       | 137                                    |
|                               | Zhob      | 1.7                          | 1.6                           | 3.3                     | 0.5                                 | 550                                    | 10.8                                                                                      | 412                                    |
|                               | Nasirabad | 4.9                          | 3.3                           | 8.2                     | 1.0                                 | 815                                    | 13.8                                                                                      | 553                                    |
|                               | Makran    | 2.3                          | 1.8                           | 4.1                     | 0.9                                 | 505                                    | 13.7                                                                                      | 293                                    |
| <b>Area</b>                   | Urban     | 2.4                          | 1.3                           | 3.8                     | 0.5                                 | 1,135                                  | 8.2                                                                                       | 854                                    |
|                               | Rural     | 2.4                          | 2.3                           | 4.7                     | 0.5                                 | 3,115                                  | 12.1                                                                                      | 2,118                                  |
| <b>Education</b>              | None      | 3.4                          | 2.8                           | 6.2                     | 0.8                                 | 2,439                                  | 13.6                                                                                      | 1,947                                  |
|                               | Primary   | 1.4                          | 1.4                           | 2.8                     | 0.3                                 | 524                                    | 6.6                                                                                       | 227                                    |
|                               | Middle    | 1.3                          | 0.7                           | 2.0                     | 0.0                                 | 445                                    | 7.4                                                                                       | 171                                    |
|                               | Matric    | 0.6                          | 1.2                           | 1.8                     | 0.0                                 | 610                                    | 7.7                                                                                       | 327                                    |
|                               | Higher    | 1.1                          | .0                            | 1.1                     | 0.0                                 | 205                                    | 3.2                                                                                       | 298                                    |
| <b>Wealth index quintiles</b> | Poorest   | 2.9                          | 2.1                           | 5.0                     | 0.4                                 | 789                                    | 12.3                                                                                      | 512                                    |
|                               | Second    | 2.5                          | 3.1                           | 5.6                     | 1.3                                 | 856                                    | 14.5                                                                                      | 575                                    |
|                               | Middle    | 2.7                          | 2.5                           | 5.2                     | 0.6                                 | 794                                    | 11.7                                                                                      | 527                                    |
|                               | Fourth    | 2.8                          | 1.7                           | 4.6                     | 0.1                                 | 856                                    | 9.0                                                                                       | 600                                    |
|                               | Richest   | 1.3                          | 0.9                           | 2.2                     | 0.0                                 | 956                                    | 8.5                                                                                       | 759                                    |
| <b>Total</b>                  |           | 2.4                          | 2.0                           | 4.4                     | 0.5                                 | 4,250                                  | 11.0                                                                                      | 2,972                                  |

Note 1: 7 cases with preschool and madrassa level of education among women age 20-24 are not shown

Note 2: 25 cases with preschool, madrassa and missing information on educational level are not shown

[1] MICS indicator 5.2

**Table RH.2: Trends in early childbearing**  
**Percentage of ever married women who have had a live birth by age 15 and 18, by age groups, Balochistan Province, Pakistan, 2010**

|  | Age          | Urban                                               |                 |                                                     |                 | Rural                                               |                 |                                                     |                 | All                                                 |                 |                                                     |                 |
|--|--------------|-----------------------------------------------------|-----------------|-----------------------------------------------------|-----------------|-----------------------------------------------------|-----------------|-----------------------------------------------------|-----------------|-----------------------------------------------------|-----------------|-----------------------------------------------------|-----------------|
|  |              | Percentage of women with a live birth before age 15 | Number of women | Percentage of women with a live birth before age 18 | Number of women | Percentage of women with a live birth before age 15 | Number of women | Percentage of women with a live birth before age 18 | Number of women | Percentage of women with a live birth before age 15 | Number of women | Percentage of women with a live birth before age 18 | Number of women |
|  | 15-19        | 0.5                                                 | 10135           | .                                                   | 0               | .5                                                  | 3,115           | .                                                   | 0               | 0.5                                                 | 4,250           | .                                                   | 0               |
|  | 20-24        | 1.9                                                 | 854             | 8.2                                                 | 854             | 3.1                                                 | 2,118           | 12.1                                                | 2,118           | 2.8                                                 | 2,972           | 11.0                                                | 2,972           |
|  | 25-29        | 4.7                                                 | 728             | 15.2                                                | 728             | 4.7                                                 | 2,346           | 18.9                                                | 2,346           | 4.7                                                 | 3,074           | 18.0                                                | 3,074           |
|  | 30-34        | 6.5                                                 | 536             | 24.7                                                | 536             | 7.5                                                 | 1,796           | 23.5                                                | 1,796           | 7.3                                                 | 2,332           | 23.8                                                | 2,332           |
|  | 35-39        | 5.3                                                 | 498             | 22.2                                                | 498             | 3.1                                                 | 1,648           | 14.0                                                | 1,648           | 3.6                                                 | 2,146           | 15.9                                                | 2,146           |
|  | 40-44        | 7.9                                                 | 354             | 23.5                                                | 354             | 4.6                                                 | 1,226           | 13.5                                                | 1,226           | 5.4                                                 | 1,580           | 15.8                                                | 1,580           |
|  | 45-49        | 3.0                                                 | 309             | 13.3                                                | 309             | 2.4                                                 | 1,070           | 9.2                                                 | 1,070           | 2.5                                                 | 1,378           | 10.1                                                | 1,378           |
|  | <b>Total</b> | 3.5                                                 | 4,414           | 16.7                                                | 3,279           | 3.5                                                 | 13,318          | 15.9                                                | 10,203          | 3.5                                                 | 17,732          | 16.1                                                | 13,482          |

## 8.2 Contraception

133. Appropriate family planning is important to the health of women and children by: 1) preventing pregnancies that are too early or too late; 2) extending the period between births; and 3) limiting the number of children. Access by all couples to information and services to prevent pregnancies that are too early, too closely spaced, too late or too many is critical.

134. Current use of contraception was reported by 15 percent of women currently married (Table RH.3). The use rate has increased merely by one percentage point since 2006-07 (NIPS, 2008). The most popular method is the pill which is used by one in twenty (5 percent) married women in Balochistan. The next most popular method is Injectable, which accounts for nearly 3 percent of married women. Nearly 4 percent of women were using female sterilization, male condom and IUD. Overall, nearly 13 percent women were using modern methods while the use of traditional methods which include lactational amenorrhea (LAM), withdrawal and abstinence was reported by merely 2 percent women.

135. Contraceptive prevalence was highest in Makran region at nearly 29 percent followed by Quetta region with 21 percent. The lowest prevalence of contraception was in Zhob region where only 3 percent of currently married women were using contraception. In Sibi region, the current use of contraception among currently married women was 6 percent. Adolescents were far less likely to use contraception than older women. Only about 6 percent married women aged 15-19 currently used a method of contraception compared to 10 percent of 20-24 and 20 percent in the age group 40-44 years.

136. Women's education level is strongly associated with contraceptive prevalence. The percentage of women using any method of contraception rises from 14 percent among those with no education to 22 percent among women with primary education, and to 25 percent among women with secondary or higher education. Contraceptive use was higher among urban (21 percent) compared to rural women (13 percent) and increased with number of living children from less than 11 percent with one living child to 18 percent with 4 or more living children. It was also higher among affluent women (23 percent) compared to the poorest (7 percent). The most striking finding of the survey in terms of contraceptive use is that contraceptive pill was the most preferred method in Balochistan among all women irrespective of their background characteristics including age, number of living children, area, residence, education and economic status.

**Table RH.3: Use of contraception**  
**Percentage of currently married women age 15-49 years who are using (or whose husband is using) a contraceptive method,**  
**Balochistan Province, Pakistan, 2010**  
 Percent of currently women who are using:

|                                  |           | Not using any method | Female sterilization | Male sterilization | IUD | Injectables | Implants | Pill | Male condom | Female condom | Lactational amenorrhoea method (LAM) | Periodic abstinence/ Rhythm | Withdrawal | Any modern method | Any traditional method | Any method [1] | # of women currently married |
|----------------------------------|-----------|----------------------|----------------------|--------------------|-----|-------------|----------|------|-------------|---------------|--------------------------------------|-----------------------------|------------|-------------------|------------------------|----------------|------------------------------|
| <b>Region</b>                    | Quetta    | 78.9                 | 3.4                  | 0.0                | 1.5 | 2.6         | 0.1      | 8.0  | 3.7         | 0.1           | 0.6                                  | 0.2                         | 0.9        | 19.4              | 1.7                    | 21.1           | 2,650                        |
|                                  | Kalat     | 88.3                 | 0.7                  | 0.0                | 0.4 | 2.8         | 0.1      | 4.8  | 1.4         | 0.1           | 0.8                                  | 0.5                         | 0.1        | 10.2              | 1.4                    | 11.7           | 2,584                        |
|                                  | Sibi      | 93.6                 | 0.4                  | 0.0                | 0.3 | 1.1         | 0.0      | 2.3  | 0.7         | 0.1           | 0.4                                  | 0.3                         | 0.5        | 5.1               | 1.3                    | 6.4            | 912                          |
|                                  | Zhob      | 96.9                 | 0.3                  | 0.0                | 0.1 | 0.5         | 0.0      | 0.8  | 0.8         | 0.0           | 0.0                                  | 0.2                         | 0.3        | 2.5               | 0.6                    | 3.1            | 1,665                        |
|                                  | Nasirabad | 85.9                 | 2.4                  | 0.0                | 2.2 | 3.0         | 0.2      | 2.9  | 0.3         | 0.0           | 2.6                                  | 0.2                         | 0.2        | 11.0              | 3.0                    | 14.1           | 2,113                        |
| <b>Area</b>                      | Makran    | 71.4                 | 2.1                  | 0.6                | 2.0 | 5.4         | 0.3      | 10.8 | 0.6         | 1.9           | 3.9                                  | 0.2                         | 0.3        | 24.0              | 4.6                    | 28.6           | 1,336                        |
|                                  | Urban     | 78.7                 | 3.4                  | 0.1                | 1.6 | 4.1         | 0.3      | 5.9  | 3.4         | 0.2           | 1.3                                  | 0.3                         | 0.8        | 18.9              | 2.4                    | 21.3           | 2,545                        |
|                                  | Rural     | 87.3                 | 1.3                  | 0.1                | 1.0 | 2.2         | 0.1      | 4.9  | 0.9         | 0.3           | 1.3                                  | 0.3                         | 0.3        | 10.8              | 1.9                    | 12.7           | 8,715                        |
| <b>Age</b>                       | 15-19     | 94.4                 | 0.0                  | 0.1                | 0.0 | 0.3         | 0.0      | 2.1  | 1.8         | 0.0           | 1.3                                  | 0.0                         | 0.0        | 4.3               | 1.3                    | 5.6            | 293                          |
|                                  | 20-24     | 89.7                 | 0.2                  | 0.0                | 0.8 | 2.0         | 0.0      | 3.2  | 1.3         | 0.0           | 2.5                                  | 0.2                         | 0.0        | 7.7               | 2.7                    | 10.3           | 1,292                        |
|                                  | 25-29     | 86.1                 | 0.5                  | 0.0                | 1.2 | 2.4         | 0.3      | 4.9  | 1.4         | 0.2           | 2.3                                  | 0.3                         | 0.4        | 10.9              | 3.0                    | 13.9           | 2,471                        |
|                                  | 30-34     | 86.2                 | 0.6                  | 0.1                | 1.2 | 2.3         | 0.0      | 5.3  | 2.0         | 0.3           | 1.2                                  | 0.3                         | 0.5        | 11.7              | 2.1                    | 13.8           | 2,223                        |
|                                  | 35-39     | 83.6                 | 1.7                  | 0.1                | 1.3 | 3.3         | 0.0      | 6.7  | 1.4         | 0.3           | 0.5                                  | 0.6                         | 0.4        | 14.7              | 1.6                    | 16.4           | 2,086                        |
|                                  | 40-44     | 80.4                 | 3.9                  | 0.1                | 1.4 | 4.1         | 0.3      | 6.6  | 1.4         | 0.4           | 0.5                                  | 0.4                         | 0.5        | 18.2              | 1.4                    | 19.6           | 1,556                        |
| <b>Number of living children</b> | 45-49     | 85.0                 | 5.4                  | 0.2                | 1.0 | 1.9         | 0.2      | 3.6  | 1.1         | 0.6           | 0.6                                  | 0.0                         | 0.4        | 14.0              | 1.0                    | 15.0           | 1,340                        |
|                                  | 0         | 98.6                 | 0.0                  | 0.0                | 0.0 | 0.4         | 0.2      | 0.5  | 0.3         | 0.0           | 0.0                                  | 0.1                         | 0.0        | 1.3               | 0.1                    | 1.4            | 1,097                        |
|                                  | 1         | 89.3                 | 0.2                  | 0.0                | 0.8 | 1.6         | 0.0      | 3.2  | 2.0         | 0.1           | 2.5                                  | 0.1                         | 0.0        | 8.1               | 2.6                    | 10.7           | 1,243                        |
|                                  | 2         | 85.8                 | 0.8                  | 0.0                | 1.4 | 2.3         | 0.1      | 4.2  | 2.4         | 0.0           | 2.3                                  | 0.2                         | 0.5        | 11.2              | 3.0                    | 14.2           | 1,424                        |
|                                  | 3         | 85.0                 | 1.0                  | 0.2                | 1.7 | 2.6         | 0.1      | 4.7  | 1.7         | 0.0           | 1.6                                  | 0.7                         | 0.7        | 12.1              | 3.0                    | 15.0           | 1,617                        |
| <b>Education</b>                 | 4+        | 82.0                 | 2.8                  | 0.1                | 1.2 | 3.3         | 0.2      | 6.7  | 1.4         | 0.5           | 1.0                                  | 0.3                         | 0.5        | 16.2              | 1.8                    | 18.0           | 5,879                        |
|                                  | None      | 87.0                 | 1.7                  | 0.0                | 0.9 | 2.3         | 0.1      | 4.8  | 1.1         | 0.3           | 1.2                                  | 0.3                         | 0.3        | 11.2              | 1.8                    | 13.0           | 9,663                        |
|                                  | Primary   | 77.6                 | 2.7                  | 0.3                | 1.4 | 4.8         | 0.3      | 8.7  | 2.0         | 0.4           | 1.2                                  | 0.5                         | 0.0        | 20.7              | 1.7                    | 22.4           | 449                          |
|                                  | Middle    | 77.1                 | 0.8                  | 0.0                | 0.5 | 3.4         | 0.0      | 8.1  | 5.9         | 0.2           | 1.2                                  | 1.3                         | 1.4        | 19.0              | 3.9                    | 22.9           | 249                          |
|                                  | Matric    | 73.8                 | 0.5                  | 0.1                | 3.5 | 3.4         | 0.3      | 7.5  | 3.3         | 0.9           | 5.0                                  | 0.0                         | 1.4        | 19.8              | 6.4                    | 26.2           | 487                          |
| <b>Wealth index quintiles</b>    | Higher    | 73.2                 | 2.9                  | 0.9                | 3.7 | 5.0         | 0.5      | 4.9  | 6.4         | 0.0           | 0.3                                  | 0.2                         | 1.4        | 24.9              | 1.9                    | 26.8           | 401                          |
|                                  | Poorest   | 92.6                 | 0.4                  | 0.0                | 0.4 | 1.4         | 0.0      | 3.4  | 0.3         | 0.0           | 0.9                                  | 0.2                         | 0.3        | 6.0               | 1.4                    | 7.4            | 2,343                        |
|                                  | Second    | 87.8                 | 1.5                  | 0.0                | 0.9 | 2.2         | 0.1      | 4.0  | 0.6         | 0.3           | 2.0                                  | 0.3                         | 0.4        | 9.6               | 2.7                    | 12.2           | 2,351                        |
|                                  | Middle    | 83.4                 | 1.5                  | 0.0                | 1.3 | 2.5         | 0.2      | 6.7  | 2.0         | 0.6           | 1.1                                  | 0.3                         | 0.3        | 14.8              | 1.9                    | 16.6           | 2,245                        |
|                                  | Fourth    | 84.9                 | 1.5                  | 0.0                | 1.2 | 2.7         | 0.1      | 5.9  | 1.1         | 0.4           | 1.6                                  | 0.4                         | 0.1        | 12.9              | 2.1                    | 15.1           | 2,138                        |
| <b>Total</b>                     | Richest   | 77.4                 | 3.9                  | 0.3                | 2.1 | 4.3         | 0.3      | 5.9  | 3.6         | 0.1           | 0.9                                  | 0.2                         | 0.9        | 20.5              | 2.1                    | 22.6           | 2,183                        |
|                                  |           | 85.3                 | 1.7                  | 0.1                | 1.1 | 2.6         | 0.1      | 5.1  | 1.5         | 0.3           | 1.3                                  | 0.3                         | 0.4        | 12.6              | 2.0                    | 14.7           | 11,260                       |

[1] MICS indicator 5.3; MDG indicator 5.3 Note 1: 4 cases with 'other type of contraceptive method' are not shown. Note2: 4 cases with preschool and 8 cases with madrassa education are not shown

### 8.3 Antenatal care

137. The antenatal period presents important opportunities for reaching pregnant women with a number of interventions that may be vital to their health and well-being and that of their infants. Better understanding of foetal growth and development and its relationship to the mother's health has resulted in increased attention to the potential of antenatal care as an intervention to improve both maternal and newborn health. For example, if the antenatal period is used to inform women and families about the danger signs and symptoms and about the risks of labour and delivery, it may provide the route for ensuring that pregnant women do, in practice, deliver with the assistance of a skilled health care provider. The antenatal period also provides an opportunity to supply information on birth spacing, which is recognized as an important factor in improving infant survival. Tetanus immunization during pregnancy can be life-saving for both the mother and infant. The prevention and treatment of malaria among pregnant women, management of anaemia during pregnancy and treatment of STIs can significantly improve foetal outcomes and improve maternal health. Adverse outcomes such as low birth weight can be reduced through a combination of interventions to improve women's nutritional status and prevent infections (e.g., malaria and STIs) during pregnancy. More recently, the potential of the antenatal period as an entry point for HIV prevention and care, in particular for the prevention of HIV transmission from mother to child, has led to renewed interest in access to and use of antenatal services.

138. WHO recommends a minimum of four antenatal visits based on a review of the effectiveness of different models of antenatal care. WHO guidelines are specific on the contents of antenatal care visits, which include:

- Blood pressure measurement
- Urine testing for bacteriuria and proteinuria
- Blood testing to detect syphilis and severe anaemia
- Weight/height measurement (optional)

139. Table RH.4 shows the type of personnel providing antenatal care to women aged 15-49 years who gave birth in the two years preceding the survey. The MICS findings indicate that 39 percent of the surveyed mothers received antenatal care from a skilled health provider (doctor, nurse or a midwife) at least once during their last pregnancy in two years. The highest level of antenatal care was found in Makran (58 percent) and the lowest in Kalat region (30 percent). Nearly three-fourth (63 percent) of urban women received antenatal care from a health professional compared to nearly one-third (31 percent) in rural areas. Younger women were more likely to visit a health professional for antenatal checkups compared to older women. Similarly, antenatal checkups are strongly correlated with education and socio-economic conditions. The survey shows that 35 percent women visited a doctor during their last pregnancy for checkups while 4 percent visited a Nurse/Lady Health Visitor or a Midwife. However, majority of the women (54 percent) who gave birth in the two years before the survey did not receive any antenatal care. The proportion of such women was highest in Zhob region and lowest in Makran.

140. UNICEF and WHO recommend a minimum of at least four antenatal care visits during pregnancy. Table RH.5 shows number of antenatal care visits during the last pregnancy during the two years preceding the survey, regardless of provider by selected characteristics. Almost one-third of mothers (32 percent) received antenatal care more than

once while only 11 percent of mothers received antenatal care at least four times. Mothers from the poorest households and those with primary education were less likely than more advantaged mothers to receive ANC four or more times. For example, only 2 percent of the women living in poorest households reported four or more antenatal care visits compared with 31 percent among those living in richest households.

141. The types of services the pregnant women received are shown in Table RH.6. Among those women who had given birth to a child during the two years preceding the survey, 23 percent reported that a blood sample was taken during antenatal care visits, 37 percent reported that their blood pressure was checked, and 28 percent said that urine specimen was taken. The proportion of women checked for blood test, measurement of blood pressure and testing urine varies across region. The proportion of women who were tested for blood, urine and blood pressure was highest in Makran while lowest proportions of women reported in Zhob that their blood sample was taken or urine tested. The findings show that younger women, women residing in urban areas, those who had some education and were relatively richer were more likely to be clinically examined during antenatal visits compared to rural, uneducated and poor women.



Table RH.4: Antenatal care provider

Percent distribution of ever married women aged 15-49 who gave birth in the two years preceding the survey by type of personnel providing antenatal care, Balochistan Province, Pakistan, 2010

|                        |              | Person providing antenatal care |                 |                     |                    |                             |                   |                 |                            | Total | At least once by skilled personnel [1] | Number of women who gave birth in the preceding two years |
|------------------------|--------------|---------------------------------|-----------------|---------------------|--------------------|-----------------------------|-------------------|-----------------|----------------------------|-------|----------------------------------------|-----------------------------------------------------------|
|                        |              | Doctor                          | Nurse / Midwife | Lady health visitor | Lady health worker | Traditional birth attendant | Relative / friend | Other / missing | No antenatal care received |       |                                        |                                                           |
| Region                 | Quetta       | 42.6                            | 1.0             | 1.1                 | 1.1                | 3.1                         | 0.0               | 0.3             | 50.8                       | 100   | 44.7                                   | 792                                                       |
|                        | Kalat        | 27.2                            | 0.6             | 2.2                 | 1.6                | 11.5                        | 0.4               | 0.1             | 56.3                       | 100   | 30.0                                   | 565                                                       |
|                        | Sibi         | 42.4                            | 3.3             | 2.4                 | 0.8                | 4.5                         | 0.0               | 0.0             | 46.7                       | 100   | 48.1                                   | 166                                                       |
|                        | Zhob         | 29.2                            | 2.4             | 0.3                 | 1.0                | 2.7                         | 0.4               | 0.8             | 63.3                       | 100   | 31.8                                   | 286                                                       |
|                        | Nasirabad    | 25.0                            | 8.0             | 0.5                 | 0.6                | 4.6                         | 0.0               | 0.0             | 61.3                       | 100   | 33.6                                   | 476                                                       |
|                        | Mekran       | 52.5                            | 4.5             | 0.5                 | 1.6                | 9.3                         | 0.0               | 0.0             | 31.5                       | 100   | 57.5                                   | 207                                                       |
| Area                   | Urban        | 59.0                            | 3.6             | 0.8                 | 0.8                | 4.0                         | 0.0               | 0.1             | 31.8                       | 100   | 63.4                                   | 602                                                       |
|                        | Rural        | 27.4                            | 2.6             | 1.3                 | 1.2                | 6.4                         | 0.2               | 0.3             | 60.5                       | 100   | 31.3                                   | 1889                                                      |
| Mother's age at birth  | Less than 20 | 34.0                            | 7.7             | 0.0                 | 2.4                | 6.3                         | 0.0               | 0.0             | 49.6                       | 100   | 41.7                                   | 165                                                       |
|                        | 20-34        | 38.2                            | 2.8             | 1.4                 | 0.9                | 5.8                         | 0.1               | 0.3             | 50.6                       | 100   | 42.3                                   | 1818                                                      |
|                        | 35-49        | 24.1                            | 1.7             | 0.9                 | 1.6                | 5.8                         | 0.1               | 0.1             | 65.6                       | 100   | 26.7                                   | 507                                                       |
| Education              | None         | 27.6                            | 2.7             | 1.0                 | 1.1                | 6.2                         | 0.1               | 0.3             | 61.1                       | 100   | 31.3                                   | 2019                                                      |
|                        | Primary      | 49.4                            | 3.8             | 1.9                 | 3.2                | 9.4                         | 0.0               | 0.0             | 32.2                       | 100   | 55.2                                   | 136                                                       |
|                        | Middle       | 63.3                            | 2.5             | 2.2                 | 0.7                | 6.3                         | 1.5               | 0.0             | 23.5                       | 100   | 68.0                                   | 73                                                        |
|                        | Matric       | 69.0                            | 4.8             | 2.5                 | 0.3                | 2.2                         | 0.0               | 0.0             | 21.2                       | 100   | 76.3                                   | 140                                                       |
|                        | Higher       | 86.6                            | 3.3             | 0.3                 | 1.3                | 0.4                         | 0.0               | 0.0             | 8.1                        | 100   | 90.2                                   | 117                                                       |
| Wealth index quintiles | Poorest      | 16.5                            | 0.9             | 0.9                 | 1.0                | 6.1                         | 0.0               | 0.2             | 74.4                       | 100   | 18.3                                   | 464                                                       |
|                        | Second       | 21.8                            | 2.0             | 0.3                 | 0.6                | 9.7                         | 0.2               | 0.1             | 65.2                       | 100   | 24.2                                   | 539                                                       |
|                        | Middle       | 27.9                            | 3.7             | 0.7                 | 2.1                | 6.7                         | 0.3               | 0.3             | 58.4                       | 100   | 32.3                                   | 485                                                       |
|                        | Fourth       | 41.0                            | 5.0             | 2.2                 | 1.7                | 5.1                         | 0.2               | 0.5             | 44.3                       | 100   | 48.2                                   | 490                                                       |
|                        | Richest      | 66.7                            | 2.7             | 1.8                 | 0.4                | 1.5                         | 0.0               | 0.1             | 26.9                       | 100   | 71.1                                   | 513                                                       |
| Total                  |              | 35.0                            | 2.9             | 1.2                 | 1.1                | 5.8                         | 0.1               | 0.2             | 53.6                       | 100   | 39.1                                   | 2491                                                      |

[1] MICS indicator 5.5a; MDG indicator 5.5

Note 1: One case with missing "age of mother at birth" is not shown. Note 2: One case with "Pre-school education and 5 cases with madrassa education are, not shown.

Table RH.5: Number of antenatal care visits

Percentage of ever married women who had a live birth during the two years preceding the survey by number of antenatal care visits by any provider, Balochistan Province, Balochistan, 2010

|                        |              | No antenatal care visits | One visit | Percent of women who had: |              |      | 4 or more visits [1] | Missing/DK | Total | Number of women who gave birth in the preceding two years |
|------------------------|--------------|--------------------------|-----------|---------------------------|--------------|------|----------------------|------------|-------|-----------------------------------------------------------|
|                        |              |                          |           | Two visits                | Three visits |      |                      |            |       |                                                           |
| Region                 | Quetta       | 51.0                     | 3.8       | 11.5                      | 10.6         | 16.7 | 6.3                  | 100        | 792   |                                                           |
|                        | Kalat        | 56.4                     | 5.3       | 10.0                      | 7.6          | 7.5  | 13.3                 | 100        | 565   |                                                           |
|                        | Sibi         | 46.7                     | 5.8       | 11.6                      | 20.0         | 12.3 | 3.6                  | 100        | 166   |                                                           |
|                        | Zhob         | 63.7                     | 5.6       | 10.0                      | 4.8          | 2.2  | 13.7                 | 100        | 286   |                                                           |
|                        | Nasirabad    | 61.3                     | 4.9       | 10.8                      | 10.4         | 11.4 | 1.2                  | 100        | 476   |                                                           |
|                        | Mekran       | 31.5                     | 4.6       | 4.8                       | 19.4         | 11.8 | 28.0                 | 100        | 207   |                                                           |
| Area                   | Urban        | 31.8                     | 5.5       | 10.8                      | 16.5         | 24.5 | 10.9                 | 100        | 602   |                                                           |
|                        | Rural        | 60.7                     | 4.5       | 10.2                      | 8.7          | 7.0  | 8.9                  | 100        | 1889  |                                                           |
| Mother's age at birth  | Less than 20 | 49.6                     | 3.5       | 11.7                      | 16.6         | 11.0 | 7.5                  | 100        | 165   |                                                           |
|                        | 20-34        | 50.8                     | 5.2       | 10.7                      | 11.0         | 12.6 | 9.7                  | 100        | 1818  |                                                           |
|                        | 35-49        | 65.6                     | 3.6       | 8.5                       | 7.0          | 6.3  | 8.9                  | 100        | 507   |                                                           |
| Education              | None         | 61.3                     | 4.7       | 9.6                       | 9.4          | 7.3  | 7.9                  | 100        | 2025  |                                                           |
|                        | Primary      | 32.5                     | 8.7       | 18.5                      | 13.4         | 13.9 | 13.0                 | 100        | 136   |                                                           |
|                        | Middle       | 23.5                     | 4.5       | 11.1                      | 15.1         | 29.9 | 15.9                 | 100        | 73    |                                                           |
|                        | Matric       | 21.2                     | 3.7       | 14.6                      | 21.2         | 25.0 | 14.4                 | 100        | 140   |                                                           |
|                        | Higher       | 8.1                      | 3.3       | 7.6                       | 13.3         | 47.0 | 20.7                 | 100        | 117   |                                                           |
| Wealth index quintiles | Poorest      | 74.6                     | 4.4       | 7.0                       | 5.2          | 2.3  | 6.4                  | 100        | 464   |                                                           |
|                        | Second       | 65.2                     | 3.3       | 9.2                       | 6.8          | 6.3  | 9.2                  | 100        | 539   |                                                           |
|                        | Middle       | 58.6                     | 5.2       | 11.0                      | 9.7          | 4.9  | 10.7                 | 100        | 485   |                                                           |
|                        | Fourth       | 44.3                     | 6.1       | 13.5                      | 13.3         | 11.0 | 11.8                 | 100        | 490   |                                                           |
|                        | Richest      | 27.2                     | 5.0       | 10.8                      | 17.6         | 30.7 | 8.6                  | 100        | 513   |                                                           |
| Total                  |              | 53.7                     | 4.8       | 10.3                      | 10.6         | 11.2 | 9.4                  | 100        | 2491  |                                                           |

[1] MICS indicator 5.5b; MDG indicator 5.5 [Note 1: one case with missing "age of mother at birth", One case with preschool and 5 cases with madrassa level of education are not shown]

**Table RH.6: Content of antenatal care**  
**Percentage of ever married women age 15-49 years who had their blood pressure measured, urine sample taken, and blood sample taken as part of antenatal care, Balochistan Province, Pakistan, 2010**

|                               |              | Percent of pregnant women who had: |                      |                  |                                                                  |                                                              |
|-------------------------------|--------------|------------------------------------|----------------------|------------------|------------------------------------------------------------------|--------------------------------------------------------------|
|                               |              | Blood pressure measured            | Urine specimen taken | Blood test taken | Blood pressure measured, urine specimen and blood test taken [1] | Number of women who gave birth in two years preceding survey |
| <b>Region</b>                 | Quetta       | 43.3                               | 36.0                 | 32.7             | 30.8                                                             | 792                                                          |
|                               | Kalat        | 29.2                               | 18.3                 | 14.6             | 9.0                                                              | 565                                                          |
|                               | Sibi         | 48.2                               | 39.4                 | 36.7             | 33.4                                                             | 166                                                          |
|                               | Zhob         | 33.3                               | 13.4                 | 9.7              | 6.7                                                              | 286                                                          |
|                               | Nasirabad    | 26.4                               | 21.7                 | 13.0             | 10.1                                                             | 476                                                          |
|                               | Makran       | 59.6                               | 52.7                 | 41.7             | 41.3                                                             | 207                                                          |
| <b>Area</b>                   | Urban        | 60.5                               | 49.0                 | 42.6             | 37.9                                                             | 602                                                          |
|                               | Rural        | 30.1                               | 21.6                 | 17.0             | 14.5                                                             | 1,889                                                        |
| <b>Mother's age at birth</b>  | Less than 20 | 40.5                               | 31.1                 | 23.3             | 21.9                                                             | 165                                                          |
|                               | 20-34        | 40.4                               | 30.1                 | 25.7             | 22.3                                                             | 1,818                                                        |
|                               | 35-49        | 25.7                               | 20.8                 | 14.3             | 12.1                                                             | 507                                                          |
| <b>Education</b>              | None         | 30.3                               | 21.4                 | 16.6             | 14.5                                                             | 2,025                                                        |
|                               | Primary      | 51.8                               | 38.5                 | 34.9             | 26.9                                                             | 136                                                          |
|                               | Middle       | 67.2                               | 56.6                 | 45.6             | 38.9                                                             | 73                                                           |
|                               | Matric       | 68.6                               | 59.9                 | 51.7             | 43.8                                                             | 140                                                          |
|                               | Higher       | 85.4                               | 78.8                 | 75.3             | 70.5                                                             | 117                                                          |
| <b>Wealth index quintiles</b> | Poorest      | 18.4                               | 9.6                  | 7.0              | 4.6                                                              | 464                                                          |
|                               | Second       | 22.3                               | 16.2                 | 11.6             | 9.0                                                              | 539                                                          |
|                               | Middle       | 31.7                               | 23.6                 | 18.8             | 15.8                                                             | 485                                                          |
|                               | Fourth       | 46.0                               | 34.1                 | 26.8             | 24.0                                                             | 490                                                          |
|                               | Richest      | 67.7                               | 56.7                 | 50.8             | 46.6                                                             | 513                                                          |
| <b>Total</b>                  |              | 37.4                               | 28.3                 | 23.2             | 20.2                                                             | 2,491                                                        |

[1] MICS indicator 5.6

Note: One case of missing age at birth of child, one case of preschool and 5 cases of madrassa level of education are not shown

#### 8.4 Assistance at delivery

142. Three quarters of all maternal deaths occur during delivery and the immediate post-partum period. The single most critical intervention for safe motherhood is to ensure a competent health worker with midwifery skills is present at every birth, and transport is available to a referral facility for obstetric care in case of emergency. A World Fit for Children Goal is to ensure that every pregnant woman has ready and affordable access to skilled attendance at delivery. The indicators are the proportion of births with a skilled attendant and proportion of institutional deliveries. The skilled attendant at delivery indicator is also used to track progress toward the Millennium Development target of reducing the maternal mortality ratio by three quarters between 1990 and 2015.

143. The MICS included a number of questions to assess the proportion of births attended by a skilled attendant. A *skilled attendant* includes a doctor, nurse, midwife or an auxiliary midwife.

144. Table RH.7 shows that about 29 percent of births occurring in the two years preceding the MICS survey were delivered by skilled personnel-(doctor 23 percent; Nurse /midwife 5 percent and LHV-1 percent) This percentage was highest in Makran region at 49 percent and lowest in Sibi at 17 percent. Younger women were more likely to get skilled birth attendant assistance compared to older women. Similarly, the more educated or a wealthier a woman was the more likely to have delivered with the assistance of a skilled birth attendant.

145. More than half of all births (53 percent) in the two years preceding the MICS survey were assisted by traditional birth attendants (TBA) and about 15 percent by relatives or friends. The TBA assisted births were more common in Nasirabad region and relatively less common in Zhob region. More rural women seek delivery assistance from TBAs (58 percent). Women who were older in age, had no or little education and poor were more likely to deliver with the assistance of TBA across the regions.

Table RH.7: Assistance during delivery

Percent distribution of ever married women age 15-49 who had a live birth in the two years preceding the survey by person assisting at delivery and percentage of births delivered by C-section, Balochistan Province, Pakistan, 2010

|                        |                                | Person assisting at delivery |                 |                   |                         |                             |                   |               |              | Total | Any skilled personnel [1] | Number of women who gave birth in preceding two years |
|------------------------|--------------------------------|------------------------------|-----------------|-------------------|-------------------------|-----------------------------|-------------------|---------------|--------------|-------|---------------------------|-------------------------------------------------------|
|                        |                                | Doctor                       | Nurse / Midwife | Auxiliary midwife | Community health worker | Traditional birth attendant | Relative / Friend | Other/missing | No attendant |       |                           |                                                       |
| Region                 | Quetta                         | 34.6                         | 3.1             | 0.8               | 1.4                     | 39.5                        | 19.2              | 0.9           | 0.6          | 100.0 | 38.5                      | 792                                                   |
|                        | Kalat                          | 12.7                         | 3.2             | 1.6               | 0.9                     | 63.0                        | 15.9              | 2.3           | 0.4          | 100.0 | 17.5                      | 565                                                   |
|                        | Sibi                           | 11.7                         | 3.0             | 2.6               | 1.9                     | 69.3                        | 10.4              | 0.8           | 0.3          | 100.0 | 17.3                      | 166                                                   |
|                        | Zhob                           | 17.7                         | 4.5             | .2                | 2.5                     | 31.4                        | 36.8              | 2.6           | 4.5          | 100.0 | 22.3                      | 286                                                   |
|                        | Nasirabad                      | 15.6                         | 8.8             | 1.2               | 0.6                     | 71.7                        | 0.7               | 0.4           | 0.9          | 100.0 | 25.6                      | 476                                                   |
|                        | Mekran                         | 37.0                         | 11.6            | 0.5               | 0.8                     | 49.6                        | 0.0               | 0.6           | 0.0          | 100.0 | 49.1                      | 207                                                   |
| Area                   | Urban                          | 45.8                         | 6.9             | 0.9               | 2.6                     | 36.8                        | 5.3               | 1.3           | 0.3          | 100.0 | 53.7                      | 602                                                   |
|                        | Rural                          | 15.4                         | 4.5             | 1.1               | 0.8                     | 58.0                        | 17.7              | 1.3           | 1.2          | 100.0 | 21.0                      | 1889                                                  |
| Mother's age at birth  | Less than 20                   | 23.1                         | 7.0             | 0.0               | 0.8                     | 54.0                        | 12.0              | 2.4           | 0.9          | 100.0 | 30.0                      | 165                                                   |
|                        | 20-34                          | 24.8                         | 5.1             | 1.1               | 1.4                     | 51.4                        | 14.4              | 1.3           | 0.5          | 100.0 | 31.0                      | 1818                                                  |
|                        | 35-49                          | 15.3                         | 4.3             | 1.4               | 0.6                     | 57.8                        | 17.0              | 0.9           | 2.8          | 100.0 | 21.0                      | 507                                                   |
| Place of delivery      | Public sector health facility  | 85.1                         | 8.4             | 3.4               | 0.4                     | 2.2                         | 0.2               | 0.0           | 0.3          | 100.0 | 96.8                      | 342                                                   |
|                        | Private sector health facility | 80.1                         | 12.3            | 1.0               | 2.0                     | 1.1                         | 2.2               | 0.8           | 0.4          | 100.0 | 93.4                      | 262                                                   |
|                        | Home                           | 3.3                          | 3.5             | 0.6               | 1.2                     | 69.9                        | 19.6              | 0.9           | 0.9          | 100.0 | 7.5                       | 1826                                                  |
| Education              | None                           | 16.0                         | 4.8             | 0.9               | 1.2                     | 57.8                        | 16.8              | 1.4           | 1.0          | 100.0 | 21.7                      | 2025                                                  |
|                        | Primary                        | 34.2                         | 3.5             | 1.2               | 0.1                     | 50.2                        | 10.0              | 0.4           | 0.3          | 100.0 | 38.9                      | 136                                                   |
|                        | Middle                         | 40.4                         | 4.6             | 1.6               | 0.7                     | 46.6                        | 4.3               | 1.0           | 0.8          | 100.0 | 46.6                      | 73                                                    |
|                        | Matric                         | 53.5                         | 10.3            | 3.7               | 1.3                     | 25.0                        | 4.5               | 1.8           | 0.0          | 100.0 | 67.4                      | 140                                                   |
|                        | Higher                         | 77.1                         | 4.0             | 0.7               | 2.9                     | 9.6                         | 4.3               | 0.4           | 0.9          | 100.0 | 81.9                      | 117                                                   |
| Wealth index quintiles | Poorest                        | 7.3                          | 4.1             | 0.9               | 1.1                     | 53.9                        | 28.4              | 1.7           | 2.6          | 100.0 | 12.3                      | 464                                                   |
|                        | Second                         | 9.4                          | 5.1             | 0.6               | 0.5                     | 64.4                        | 17.5              | 1.5           | 0.9          | 100.0 | 15.1                      | 539                                                   |
|                        | Middle                         | 14.7                         | 4.1             | 0.7               | 1.0                     | 66.1                        | 11.5              | 1.2           | 0.7          | 100.0 | 19.5                      | 485                                                   |
|                        | Fourth                         | 24.8                         | 5.6             | 1.1               | 1.3                     | 54.8                        | 10.5              | 1.6           | 0.3          | 100.0 | 31.5                      | 490                                                   |
|                        | Richest                        | 56.2                         | 6.5             | 2.0               | 2.2                     | 25.4                        | 6.6               | 0.6           | 0.5          | 100.0 | 64.7                      | 513                                                   |
| Total                  |                                | 22.7                         | 5.1             | 1.1               | 1.2                     | 52.9                        | 14.7              | 1.3           | 1.0          | 100.0 | 28.9                      | 2491                                                  |

[1] MICS indicator 5.7; MDG indicator 5.2 [2] MICS indicator 5.9

Note 1: 6 cases with missing information on "place of delivery" are not shown. Note 2: One case with missing "mother's age at birth" is not shown. One case of preschool and 5 cases of madrassa level of education are not shown.

## 8.5 Place of delivery

146. Increasing the proportion of births that are delivered in health facilities is an important factor in reducing the health risks to both the mother and the baby. Proper medical attention and hygienic conditions during delivery can reduce the risks of complications and infection that can cause morbidity and mortality to either the mother or the baby. Table RH.8 presents the percent distribution of women age 15-49 who had a live birth in the two years preceding the survey by place of delivery and the percentage of births delivered in a health facility, according to background characteristics.

147. Table RH.8 shows that nearly one-fourth (24 percent) of births in Balochistan were delivered in a health facility; 14 percent of deliveries in public sector facilities and 11 percent in private sector facilities. Nearly three-fourth (73 percent) of deliveries took place at home. Women in urban areas were more likely to deliver in a health facility (49 percent) compared with their rural counterparts (16 percent). Makran had the highest proportion of institutional deliveries (38 percent), followed by Quetta (37 percent), while Kalat had the lowest proportion (11 percent). Women with higher levels of educational attainment were more likely to deliver in a health facility than women with less education or no education. The proportion of births occurring in a health facility increased steadily with increasing wealth quintile, from 7 percent of births in the lowest wealth quintile to 60 percent among those in the highest quintile.

**Table RH.8: Place of delivery**  
**Percent distribution of ever married women age 15-49 with a birth in two years preceding the survey by place of delivery, Balochistan Province, Pakistan, 2010**

|                           |              | Place of delivery             |                                |      |       |            | Total | Delivered in health facility [1] | Number of women who gave birth in preceding two years |
|---------------------------|--------------|-------------------------------|--------------------------------|------|-------|------------|-------|----------------------------------|-------------------------------------------------------|
|                           |              | Public sector health facility | Private sector health facility | Home | Other | Missing/DK |       |                                  |                                                       |
| Region                    | Quetta       | 23.4                          | 13.3                           | 62.4 | 0.2   | 0.7        | 100   | 36.7                             | 792                                                   |
|                           | Kalat        | 5.8                           | 5.6                            | 86.9 | 0.2   | 1.5        | 100   | 11.4                             | 565                                                   |
|                           | Sibi         | 8.8                           | 7.3                            | 81.6 | 0.1   | 2.1        | 100   | 16.1                             | 166                                                   |
|                           | Zhob         | 5.2                           | 8.9                            | 82.7 | 0.6   | 2.6        | 100   | 14.1                             | 286                                                   |
|                           | Nasirabad    | 6.1                           | 15.7                           | 72.0 | 0.3   | 6.0        | 100   | 21.8                             | 476                                                   |
|                           | Mekran       | 31.8                          | 5.7                            | 61.1 | 0.0   | 1.4        | 100   | 37.5                             | 207                                                   |
| Area                      | Urban        | 26.8                          | 22.5                           | 47.2 | 0.5   | 3.0        | 100   | 49.4                             | 602                                                   |
|                           | Rural        | 9.5                           | 6.7                            | 81.6 | 0.2   | 2.0        | 100   | 16.2                             | 1889                                                  |
| Mother's age at birth     | Less than 20 | 9.8                           | 14.5                           | 69.1 | 1.1   | 5.6        | 100   | 24.2                             | 165                                                   |
|                           | 20-34        | 14.9                          | 11.0                           | 71.8 | 0.2   | 2.1        | 100   | 25.9                             | 1818                                                  |
|                           | 35-49        | 10.7                          | 7.6                            | 79.8 | 0.0   | 1.9        | 100   | 18.4                             | 507                                                   |
| Percent of women who had: | None         | 4.4                           | 3.1                            | 89.2 | 0.2   | 3.1        | 100   | 7.5                              | 1339                                                  |
|                           | 1-3 visits   | 22.8                          | 17.0                           | 58.7 | 0.3   | 1.2        | 100   | 39.8                             | 639                                                   |
|                           | 4+ visits    | 34.2                          | 32.2                           | 32.0 | 0.6   | 1.0        | 100   | 66.4                             | 280                                                   |
|                           | Missing/DK   | 17.6                          | 9.3                            | 71.2 | 0.0   | 1.9        | 100   | 26.9                             | 234                                                   |
| Education                 | None         | 10.0                          | 7.1                            | 80.5 | 0.2   | 2.2        | 100   | 17.1                             | 2025                                                  |
|                           | Primary      | 20.9                          | 15.3                           | 59.6 | 0.0   | 4.2        | 100   | 36.2                             | 136                                                   |
|                           | Middle       | 18.2                          | 23.4                           | 51.7 | 2.3   | 4.4        | 100   | 41.6                             | 73                                                    |
|                           | Matric       | 35.1                          | 25.4                           | 38.5 | 0.9   | 0.1        | 100   | 60.5                             | 140                                                   |
|                           | Higher       | 41.1                          | 35.6                           | 21.1 | 0.0   | 2.2        | 100   | 76.7                             | 117                                                   |
| Wealth index quintiles    | Poorest      | 2.4                           | 4.2                            | 92.0 | 0.0   | 1.4        | 100   | 6.6                              | 464                                                   |
|                           | Second       | 5.7                           | 4.4                            | 87.3 | 0.4   | 2.3        | 100   | 10.1                             | 539                                                   |
|                           | Middle       | 9.2                           | 5.4                            | 81.7 | 0.3   | 3.4        | 100   | 14.6                             | 485                                                   |
|                           | Fourth       | 19.7                          | 8.5                            | 69.5 | 0.1   | 2.1        | 100   | 28.2                             | 490                                                   |
|                           | Richest      | 30.9                          | 29.3                           | 37.4 | 0.3   | 2.1        | 100.0 | 60.1                             | 513                                                   |
| Total                     |              | 13.7                          | 10.5                           | 73.3 | 0.2   | 2.3        | 100   | 24.2                             | 2491                                                  |

Note 1: One case with missing "age of mother at birth" is not shown, one case of preschool and 5 cases of madrassa level of education are not shown

[1] MICS indicator 5.8

# IX Child Development

## 9.1 Early childhood education and learning

148. Attendance to pre-school education in an organized learning or child education program is important for the readiness of children to school.

149. Table CD.1 shows that only 3 percent of children aged 36-59 months were attending pre-school. The proportion of male and female children is also similar (3 percent). Makran region, which is predominantly rural, had surprisingly higher proportion of children attending preschool compared to other regions including Quetta which is more urbanised (9 percent vs 2 percent). The lowest level of preschool attendance was observed in Sibi region. Urban-rural differentials are visible (6 percent in urban and 2.5 percent in rural areas) though overall the level was low even in urban areas. Differentials by education of head of the household and socioeconomic status were significant. Six percent of children living in rich households attended pre-school, while the figure dropped to 2 percent in poor households. Preschool attendance was increasing with the increase in age of child. Attendance in pre-school at ages 36-47 months was nearly 2 percent while in age group 48-59 months it was nearly 5 percent.

150. It is well recognized that a period of rapid brain development occurs in the first 3-4 years of life, and the quality of home care is the major determinant of the child's development during this period. In this context, adult activities with children, presence of books in the home for the child and the conditions of care are important indicators of quality of home care. Children should be physically healthy, mentally alert, emotionally secure, socially competent and ready to learn.

151. Information on a number of activities that support early learning was collected in the survey. These included the involvement of adults with children in the following activities: reading books or looking at picture books, telling stories, singing songs, taking children outside the home, compound or yard, playing with children, and spending time with children naming, counting, or drawing things.

152. Nearly four out of every ten children (38 percent) of age less than five years, an adult household member engaged in more than four activities that promote learning and school readiness during the 3-days preceding the survey (see Table CD.2). The average number of activities that adults engaged with children was three (3). The table also indicates that the father's involvement in such activities was also encouraging. Father's involvement with one or more activities was 61 percent. Less than 2 percent of children were living in a household without their fathers.



**Table CD.1: Early childhood education  
Percentage of children age 36-59 months who are attending some form of organized early childhood education program, Balochistan Province, Pakistan, 2010**

| Background characteristics    |                     | Percentage of children age 36-59 months currently attending early childhood education [1] | Number of children aged 36-59 months |
|-------------------------------|---------------------|-------------------------------------------------------------------------------------------|--------------------------------------|
| <b>Sex</b>                    | Male                | 3.0                                                                                       | 2,682                                |
|                               | Female              | 3.3                                                                                       | 2,224                                |
| <b>Region</b>                 | Quetta              | 2.4                                                                                       | 1,171                                |
|                               | Kalat               | 2.6                                                                                       | 1,031                                |
|                               | Sibi                | 1.1                                                                                       | 454                                  |
|                               | Zhob                | 2.8                                                                                       | 806                                  |
|                               | Nasirabad           | 2.6                                                                                       | 836                                  |
|                               | Makran              | 8.5                                                                                       | 607                                  |
| <b>Area</b>                   | Urban               | 6.0                                                                                       | 966                                  |
|                               | Rural               | 2.5                                                                                       | 3,939                                |
| <b>Age of child</b>           | 36-47 months        | 1.7                                                                                       | 2,479                                |
|                               | 48-59 months        | 4.7                                                                                       | 2,426                                |
| <b>Mother's education</b>     | No formal schooling | 2.2                                                                                       | 4294                                 |
|                               | Primary             | 6.0                                                                                       | 192                                  |
|                               | Middle              | 10.2                                                                                      | 88                                   |
|                               | Matric              | 12.3                                                                                      | 196                                  |
|                               | Higher              | 13.3                                                                                      | 132                                  |
| <b>Wealth index quintiles</b> | Poorest             | 2.3                                                                                       | 1,013                                |
|                               | Second              | 2.1                                                                                       | 1,023                                |
|                               | Middle              | 2.7                                                                                       | 1,090                                |
|                               | Fourth              | 3.1                                                                                       | 941                                  |
|                               | Richest             | 6.2                                                                                       | 838                                  |
| <b>Total</b>                  |                     | 3.2                                                                                       | 4,905                                |

[1] MICS indicator 6.7

**Note: One case of missing in sex, 4 cases of preschool and 2 cases of madrassa levels of education are not shown**

153. There were no gender differentials in terms of adult activities including fathers with children. Larger proportions of adults engaged in learning and school readiness activities with children in urban areas (52 percent) than in rural areas (34 percent). Strong differentials by region and socio-economic status were also observed. Adult engagement in activities with children was greatest in the Makran region (80 percent) and lowest in Zhob region (18 percent). Adult engagement with children increased with mother's and father's educational level and also with the socioeconomic status of the household.

**Table CD.2: Support for learning  
Percentage of children age 36-59 months with whom an adult household member engaged in activities that promote learning and school readiness during the last three days, Balochistan Province, Pakistan, 2010**

| Background characteristics    | Percentage of children aged 36-59 months                                 |                                                            | Mean number of activities                         |                                   | Percentage of children not living with their natural father | Number of children aged 36-59 months |       |
|-------------------------------|--------------------------------------------------------------------------|------------------------------------------------------------|---------------------------------------------------|-----------------------------------|-------------------------------------------------------------|--------------------------------------|-------|
|                               | With whom adult household members engaged in four or more activities [1] | With whom the father engaged in one or more activities [2] | Any adult household member engaged with the child | The father engaged with the child |                                                             |                                      |       |
| <b>Sex</b>                    | Male                                                                     | 38.4                                                       | 62.4                                              | 3.1                               | 1.1                                                         | 1.4                                  | 2,681 |
|                               | Female                                                                   | 37.4                                                       | 58.7                                              | 3.0                               | 1.1                                                         | 2.1                                  | 2,223 |
| <b>Region</b>                 | Quetta                                                                   | 32.2                                                       | 45.4                                              | 2.8                               | 0.7                                                         | 1.8                                  | 1,171 |
|                               | Kalat                                                                    | 41.3                                                       | 66.3                                              | 3.2                               | 1.3                                                         | 1.4                                  | 1,031 |
|                               | Sibi                                                                     | 30.7                                                       | 76.5                                              | 2.9                               | 1.2                                                         | 0.5                                  | 454   |
|                               | Zhob                                                                     | 17.9                                                       | 41.4                                              | 2.3                               | 0.7                                                         | 1.2                                  | 806   |
|                               | Nasirabad                                                                | 34.4                                                       | 67.6                                              | 2.9                               | 1.1                                                         | 1.9                                  | 836   |
|                               | Makran                                                                   | 80.2                                                       | 85.1                                              | 4.6                               | 1.9                                                         | 3.8                                  | 607   |
| <b>Area</b>                   | Urban                                                                    | 52.4                                                       | 65.2                                              | 3.5                               | 1.3                                                         | 2.7                                  | 966   |
|                               | Rural                                                                    | 34.4                                                       | 59.6                                              | 2.9                               | 1.1                                                         | 1.5                                  | 3,939 |
| <b>Age</b>                    | 36-47 months                                                             | 35.4                                                       | 57.5                                              | 2.9                               | 1.0                                                         | 1.4                                  | 2,479 |
|                               | 48-59 months                                                             | 40.5                                                       | 64.0                                              | 3.2                               | 1.2                                                         | 2.1                                  | 2,426 |
| <b>Mother's education</b>     | None                                                                     | 34.5                                                       | 59.4                                              | 2.9                               | 1.0                                                         | 1.7                                  | 4,291 |
|                               | Primary                                                                  | 43.1                                                       | 49.3                                              | 3.3                               | 1.0                                                         | 0.6                                  | 192   |
|                               | Middle                                                                   | 63.2                                                       | 80.4                                              | 4.0                               | 1.6                                                         | 1.5                                  | 88    |
|                               | Matric                                                                   | 66.4                                                       | 76.9                                              | 4.3                               | 1.8                                                         | 3.5                                  | 196   |
|                               | Higher                                                                   | 83.1                                                       | 83.2                                              | 4.8                               | 2.1                                                         | 3.7                                  | 132   |
| <b>Father's education</b>     | None                                                                     | 35.1                                                       | 60.5                                              | 2.9                               | 1.0                                                         | 0.0                                  | 2,555 |
|                               | Primary                                                                  | 23.8                                                       | 59.8                                              | 2.7                               | 0.9                                                         | 0.0                                  | 463   |
|                               | Middle                                                                   | 32.5                                                       | 58.0                                              | 2.9                               | 0.9                                                         | 0.0                                  | 377   |
|                               | Matric                                                                   | 41.6                                                       | 61.9                                              | 3.2                               | 1.1                                                         | 0.0                                  | 772   |
|                               | Higher                                                                   | 56.8                                                       | 66.8                                              | 3.8                               | 1.6                                                         | 0.0                                  | 612   |
|                               | Father not in household                                                  | 53.3                                                       | 39.1                                              | 3.6                               | 0.8                                                         | 100                                  | 86    |
| <b>Wealth index quintiles</b> | Poorest                                                                  | 31.4                                                       | 49.3                                              | 2.8                               | 0.9                                                         | 2.1                                  | 1,013 |
|                               | Second                                                                   | 32.4                                                       | 60.8                                              | 2.9                               | 1.1                                                         | 1.4                                  | 1,023 |
|                               | Middle                                                                   | 33.3                                                       | 66.7                                              | 2.9                               | 1.1                                                         | 1.2                                  | 1,090 |
|                               | Fourth                                                                   | 40.6                                                       | 63.6                                              | 3.2                               | 1.2                                                         | 1.2                                  | 941   |
|                               | Richest                                                                  | 55.6                                                       | 63.4                                              | 3.7                               | 1.2                                                         | 3.1                                  | 838   |
| <b>Total</b>                  |                                                                          | 37.9                                                       | 60.7                                              | 3.1                               | 1.1                                                         | 1.8                                  | 4,905 |

Note 1: 2 number of children with missing information on their "sex" are not shown.

Note 2: 4 number of children with their "mother's education in "pre-school" are not shown.

Note 3: 3 number of children with their "mother's education in "Madrasa" are not shown.

Note 4: 9 number of children with their "father's education in pre-school" are not shown.

Note 5: 20 number of children with their "father's education in "Madrasa" are not shown.

Note 6: 14 number of cases with missing "father's education" are not shown.

[1] MICS indicator 6.1

[2] MICS Indicator 6.2

## 9.2 Exposure of children to learning materials

154. Exposure to books in early years not only provides the child with greater understanding of the nature of print, but may also give the child opportunities to see others reading, such as older siblings doing school work. Presence of books is important for later school performance and IQ scores. The mother/caretaker of all children under 5 were asked about number of children's books or picture books they had for the child, household objects or outside objects, and homemade toys or toys from a shop that were available at home.

155. Overall, only 2 percent of children age 0-59 months were living in households where at least 3 children's books were present (see Table CD.3). Hardly any household was found where 10 or more children's books were available. While no gender differentials were observed, urban children appeared to have more access to children's books than those living in rural households. The proportion of under-5 children who had 3 or more children's books was 5 percent in urban areas compared to one percent in rural areas. The presence of children's books was found positively correlated with the child's age. In the homes of 3 percent of children aged 0-59 months, there were 3 or more children's books, while the figure was 0.3 percent for children aged 0-23 months.

156. Table CD.3 also shows that 47 percent of children aged 0-59 months had 2 or more playthings to play with in their homes. The playthings included homemade toys (such as dolls and cars, or other toys made at home), toys that came from a store, and household objects (such as pots and bowls) or objects and materials found outside the home (such as sticks, rocks, animal shells, or leaves). It is interesting to note that 44 percent of children played with toys that came from a store; however, the percentages for other types of toys that are made at home were slightly higher. Differentials on the basis of gender virtually did not exist. Urban-rural differentials were however, observed in this respect. Differences were also observed in terms of mother's education – 60 percent of children whose mothers were educated had 2 or more playthings, while the proportion was 45 percent for children whose mothers had no education. Differentials also existed by socioeconomic status of the households, and regions.

**Table CD.3: Learning materials**  
**Percentage of children under age 5 by numbers of children's books present in the household, and by playthings that child plays with, Balochistan Province, Pakistan, 2010**

|                               |                | Household has for the child:   |                             | Child plays with: |                                     |                                         | Two or more types of playthings [2] | Number of children under age 5 |
|-------------------------------|----------------|--------------------------------|-----------------------------|-------------------|-------------------------------------|-----------------------------------------|-------------------------------------|--------------------------------|
|                               |                | 3 or more children's books [1] | 10 or more children's books | Homemade toys     | Toys from a shop/ manufactured toys | Household objects/objects found outside |                                     |                                |
| <b>Sex</b>                    | Male           | 2.1                            | 0.1                         | 52.7              | 44.2                                | 44.0                                    | 47.1                                | 5,222                          |
|                               | Female         | 2.2                            | 0.1                         | 53.0              | 42.6                                | 43.4                                    | 46.2                                | 4,508                          |
| <b>Region</b>                 | Quetta         | 1.5                            | 0.3                         | 50.2              | 48.8                                | 46.7                                    | 51.4                                | 2,548                          |
|                               | Kalat          | 1.6                            | 0.1                         | 70.4              | 42.9                                | 48.4                                    | 56.0                                | 2,054                          |
|                               | Sibi           | 0.7                            | 0.0                         | 68.3              | 33.8                                | 53.0                                    | 53.7                                | 798                            |
|                               | Zhob           | 2.4                            | 0.1                         | 25.3              | 28.5                                | 26.3                                    | 25.6                                | 1,608                          |
|                               | Nasirabad      | 1.4                            | 0.0                         | 48.1              | 44.3                                | 47.2                                    | 43.1                                | 1,743                          |
|                               | Makran         | 7.2                            | 0.0                         | 63.7              | 61.7                                | 40.6                                    | 49.8                                | 982                            |
| <b>Area</b>                   | Urban          | 4.9                            | 0.4                         | 58.3              | 63.4                                | 51.5                                    | 59.4                                | 2,028                          |
|                               | Rural          | 1.4                            | 0.0                         | 51.4              | 38.2                                | 41.6                                    | 43.3                                | 7,706                          |
| <b>Age</b>                    | 0-23 months    | 0.3                            | 0.1                         | 36.3              | 30.5                                | 29.8                                    | 31.6                                | 2,855                          |
|                               | 24-59 months   | 2.9                            | 0.1                         | 59.7              | 48.9                                | 49.4                                    | 52.9                                | 6,879                          |
| <b>Mother's Education</b>     | No education   | 1.5                            | 0.1                         | 52.1              | 39.5                                | 42.8                                    | 44.5                                | 8,354                          |
|                               | Some education | 6.2                            | 0.5                         | 57.1              | 67.6                                | 48.9                                    | 59.9                                | 1,380                          |
| <b>Wealth index quintiles</b> | Poorest        | 0.8                            | 0.0                         | 45.6              | 25.1                                | 33.5                                    | 33.8                                | 2,033                          |
|                               | Second         | 0.8                            | 0.0                         | 51.0              | 36.3                                | 40.3                                    | 40.8                                | 2,025                          |
|                               | Middle         | 1.4                            | 0.1                         | 59.3              | 43.1                                | 50.3                                    | 54.0                                | 2,062                          |
|                               | Fourth         | 3.0                            | 0.1                         | 52.5              | 49.3                                | 44.5                                    | 46.9                                | 1,868                          |
|                               | Richest        | 5.2                            | 0.4                         | 56.1              | 67.3                                | 50.7                                    | 59.6                                | 1,746                          |
| <b>Total</b>                  |                | 2.1                            | 0.1                         | 52.8              | 43.5                                | 43.7                                    | 46.7                                | 9,734                          |

[1] MICS indicator 6.3

[2] MICS indicator 6.4

Note: 4 cases of missing sex are not shown

### 9.3 Adequacy of care

157. Leaving children alone or in the presence of other young children is known to increase the risk of accidents. In MICS, two questions were asked to find out whether children aged 0-59 months were left alone during the week preceding the interview, and whether children were left in the care of other children under 10 years of age.

158. Table CD.4 shows that 28 percent of children aged 0-59 months were left in the care of other children, while a similar proportion of children were left alone during the week preceding the interview. Combining the two care indicators, it is calculated that one-third (32 percent) of children were left with inadequate care during the week preceding the survey, either by being left alone or in the care of another child. No differences were observed by the

sex of the child however, the proportion of such children was higher in rural (34 percent) than in urban areas (25 percent). On the other hand, inadequate care was more prevalent among children whose mothers had at least secondary education (21 percent), as opposed to children whose mothers had no education (33 percent). Children aged 24-59 months were left with inadequate care more (37 percent) than those who were aged 0-23 months (22 percent). Differences were also observed in regard to socioeconomic status of the household.

**Table CD.4: Inadequate care**  
**Percentage of children under age 5 left alone or left in the care of other children under the age of 10 years for more than one hour at least once during the past week, Balochistan Province, Pakistan, 2010**

| Background characteristics    | Percentage of children under age 5 |                                                                                 |                                                | Number of children under age 5 |
|-------------------------------|------------------------------------|---------------------------------------------------------------------------------|------------------------------------------------|--------------------------------|
|                               | Left alone in the past week        | Left in the care of another child younger than 10 years of age in the past week | Left with inadequate care in the past week [1] |                                |
| <b>Sex</b>                    | Male                               | 28.7                                                                            | 28.3                                           | 5,222                          |
|                               | Female                             | 27.5                                                                            | 27.0                                           | 4,508                          |
| <b>Region</b>                 | Quetta                             | 29.5                                                                            | 24.8                                           | 2,548                          |
|                               | Kalat                              | 25.6                                                                            | 26.9                                           | 2,054                          |
|                               | Sibi                               | 38.4                                                                            | 38.3                                           | 798                            |
|                               | Zhob                               | 19.6                                                                            | 17.7                                           | 1,608                          |
|                               | Nasirabad                          | 31.9                                                                            | 36.8                                           | 1,743                          |
|                               | Makran                             | 29.6                                                                            | 29.1                                           | 982                            |
| <b>Area</b>                   | Urban                              | 20.8                                                                            | 19.6                                           | 2,028                          |
|                               | Rural                              | 30.1                                                                            | 29.9                                           | 7,706                          |
| <b>Age</b>                    | 0-23                               | 18.7                                                                            | 18.6                                           | 2,855                          |
|                               | 24-59                              | 32.1                                                                            | 31.6                                           | 6,879                          |
| <b>Mother's education</b>     | None                               | 28.9                                                                            | 28.4                                           | 8,338                          |
|                               | Primary                            | 27.5                                                                            | 28.6                                           | 428                            |
|                               | Middle                             | 35.5                                                                            | 30.7                                           | 210                            |
|                               | Matric                             | 20.3                                                                            | 20.6                                           | 420                            |
|                               | Higher                             | 18.0                                                                            | 18.3                                           | 321                            |
| <b>Wealth index quintiles</b> | Poorest                            | 22.8                                                                            | 24.0                                           | 2,033                          |
|                               | Second                             | 28.1                                                                            | 28.9                                           | 2,025                          |
|                               | Middle                             | 31.4                                                                            | 28.9                                           | 2,062                          |
|                               | Fourth                             | 33.0                                                                            | 32.5                                           | 1,868                          |
|                               | Richest                            | 25.8                                                                            | 24.5                                           | 1,746                          |
| <b>Total</b>                  |                                    | 28.2                                                                            | 27.8                                           | 9,734                          |

[1] MICS indicator 6.5

Note: 4 cases of missing sex, 7 cases of preschool and 10 cases of madrassa levels of education are not shown

## 9.4 Early childhood development

159. Early child development is defined as an orderly, predictable process along a continuous path, in which a child learns to handle more complicated levels of moving, thinking, speaking, feeling and relating to others. Physical growth, literacy and numeracy skills, socio-emotional development and readiness to learn are vital domains of a child's overall development, which is a basis for overall human development.

160. A 10-item module developed for the MICS program was used to calculate the Early Child Development Index (ECDI). The indicator is based on some benchmarks that children would be expected to have if they are developing as the majority of children in that age group. The primary purpose of the ECDI is to inform public policy regarding the developmental status of children in Balochistan province.

161. Each of the 10 items is used in one of the four domains, to determine if children are developmentally on track in that domain. The domains in question are:

- *Literacy-numeracy*: Children are identified as being developmentally on track based on whether they can identify/name at least ten letters of the alphabet, whether they can read at least four simple, popular words, and whether they know the name and recognize the symbols of all numbers from 1 to 10. If at least two of these are true, then the child is considered developmentally on track.
- *Physical*: If the child can pick up a small object with two fingers, like a stick or a rock from the ground and/or the mother/caretaker does not indicate that the child is sometimes too sick to play, then the child is regarded as being developmentally on track in the physical domain.
- In the *social-emotional domain*, children are considered to be developmentally on track if two of the following is true: If the child gets along well with other children, if the child does not kick, bite, or hit other children and if the child does not get distracted easily.
- *Learning*: If the child follows simple directions on how to do something correctly and/or when given something to do, is able to do it independently, then the child is considered to be developmentally on track in the learning domain.

162. ECDI is then calculated as the percentage of children who are developmentally on track in at least three of these four domains.

163. The results are presented in Table CD.5. Overall 60 percent of children aged 36-59 months were found to be developmentally on track. ECDI was slightly higher among boys (61 percent) than girls (59 percent). As expected, ECDI was higher among 48-59 months old (65 percent) compared to 55 percent among 36-47 months old, since children mature more skills with increasing age. Higher ECDI was seen in children attending pre-school (87 percent) compared to 59 percent for those who were not attending preschool. Children living in poorest households had lower ECDI (59 percent) compared to children living in richest households (72 percent). The analysis of four domains of child development shows that 91 percent of children were on track in the physical domain, but much less on track in literacy numeracy (20 percent), social-emotional (69 percent) and learning (78 percent) domains. In each individual domain the higher score was invariably associated with children living in richest households, with children attending preschool, older children, and among boys.

**Table CD.5: Early child development index**

**Percentage of children age 36-59 months who are developmentally on track in literacy-numeracy, physical, social-emotional, and learning domains, and the early child development index score, Balochistan Province, Pakistan, 2010**

| Background characteristics    |                         | Percentage of children age 36-59 months who are developmentally on track for indicated domains |          |                  |          | Early child development index score [1] | Number of children age 36-59 months |
|-------------------------------|-------------------------|------------------------------------------------------------------------------------------------|----------|------------------|----------|-----------------------------------------|-------------------------------------|
|                               |                         | Literacy-numeracy                                                                              | Physical | Social-Emotional | Learning |                                         |                                     |
| <b>Sex</b>                    | Male                    | 20.1                                                                                           | 90.9     | 69.3             | 78.5     | 60.9                                    | 2,681                               |
|                               | Female                  | 19.9                                                                                           | 89.9     | 67.6             | 77.6     | 59.4                                    | 2,223                               |
| <b>Region</b>                 | Quetta                  | 14.1                                                                                           | 88.7     | 74.7             | 83.5     | 64.2                                    | 1,171                               |
|                               | Kalat                   | 20.2                                                                                           | 92.7     | 59.3             | 73.2     | 51.7                                    | 1,031                               |
|                               | Sibi                    | 12.1                                                                                           | 90.4     | 63.6             | 62.3     | 40.9                                    | 454                                 |
|                               | Zhob                    | 18.6                                                                                           | 93.3     | 76.1             | 80.6     | 70.8                                    | 806                                 |
|                               | Nasirabad               | 20.1                                                                                           | 90.0     | 80.5             | 87.4     | 72.7                                    | 836                                 |
|                               | Makran                  | 38.6                                                                                           | 86.8     | 49.5             | 71.3     | 50.2                                    | 607                                 |
| <b>Area</b>                   | Urban                   | 34.2                                                                                           | 91.3     | 69.9             | 83.3     | 69.6                                    | 966                                 |
|                               | Rural                   | 16.5                                                                                           | 90.3     | 68.2             | 76.8     | 57.9                                    | 3,939                               |
| <b>Age</b>                    | 36-47 months            | 12.9                                                                                           | 88.1     | 70.4             | 73.5     | 55.4                                    | 2,479                               |
|                               | 48-59 months            | 27.2                                                                                           | 92.8     | 66.7             | 82.7     | 65.1                                    | 2,426                               |
| <b>Preschool attendance</b>   | Attending preschool     | 65.3                                                                                           | 93.1     | 74.1             | 90.3     | 87.1                                    | 155                                 |
|                               | Not attending preschool | 18.5                                                                                           | 90.4     | 68.4             | 77.7     | 59.3                                    | 4,750                               |
| <b>Mother's education</b>     | None                    | 17.5                                                                                           | 90.7     | 68.4             | 77.6     | 59.1                                    | 4,291                               |
|                               | Primary                 | 27.3                                                                                           | 88.8     | 74.1             | 87.0     | 70.6                                    | 192                                 |
|                               | Middle                  | 38.5                                                                                           | 90.1     | 67.3             | 87.2     | 66.7                                    | 88                                  |
|                               | Matric                  | 44.1                                                                                           | 87.7     | 64.5             | 74.8     | 67.3                                    | 196                                 |
|                               | Higher                  | 44.8                                                                                           | 88.8     | 71.2             | 78.3     | 67.4                                    | 132                                 |
| <b>Wealth index quintiles</b> | Poorest                 | 11.9                                                                                           | 93.2     | 68.6             | 79.9     | 59.2                                    | 1,013                               |
|                               | Second                  | 18.1                                                                                           | 89.0     | 67.8             | 75.0     | 59.5                                    | 1,023                               |
|                               | Middle                  | 16.6                                                                                           | 92.1     | 65.5             | 74.9     | 54.4                                    | 1,090                               |
|                               | Fourth                  | 22.5                                                                                           | 87.1     | 67.8             | 76.8     | 58.0                                    | 941                                 |
|                               | Richest                 | 33.9                                                                                           | 90.6     | 74.2             | 85.1     | 72.4                                    | 838                                 |
| <b>Total</b>                  |                         | 20.0                                                                                           | 90.5     | 68.5             | 78.1     | 60.2                                    | 4,905                               |

Note 1: 2 number of children with missing information on their "sex" are not shown.

Note 2: 4 number of children with "pre-school education of their mother" are not shown.

Note 3: 3 number of children with "Madrasa education of their mother" are not shown.

[1] MICS indicator 6.6

# X Education

## 10.1 Pre-school attendance and school readiness

164. Attendance to pre-school education in an organized learning and child education program is important for the readiness of children to school. One of the World Fit for Children Goals is the promotion of early childhood education.

| <b>Table ED.1: School readiness</b>                                                                                                                   |           |                                                                                          |                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------------------------------------------------------------------------------|------------------------------------------------------------|
| <b>Percentage of children attending first grade of primary school who attended pre-school the previous year, Balochistan Province, Pakistan, 2010</b> |           |                                                                                          |                                                            |
|                                                                                                                                                       |           | Percentage of children attending first grade who attended preschool in previous year [1] | Number of children attending first grade of primary school |
| <b>Sex</b>                                                                                                                                            | Male      | 78.9                                                                                     | 645                                                        |
|                                                                                                                                                       | Female    | 81.9                                                                                     | 448                                                        |
| <b>Region</b>                                                                                                                                         | Quetta    | 84.2                                                                                     | 318                                                        |
|                                                                                                                                                       | Kalat     | 67.1                                                                                     | 234                                                        |
|                                                                                                                                                       | Sibi      | (62.7)                                                                                   | 34                                                         |
|                                                                                                                                                       | Zhob      | 69.2                                                                                     | 81                                                         |
|                                                                                                                                                       | Nasirabad | 81.2                                                                                     | 176                                                        |
|                                                                                                                                                       | Makran    | 92.3                                                                                     | 250                                                        |
| <b>Area</b>                                                                                                                                           | Urban     | 80.6                                                                                     | 313                                                        |
|                                                                                                                                                       | Rural     | 80.0                                                                                     | 780                                                        |
| <b>Mother's education</b>                                                                                                                             | None      | 79.0                                                                                     | 882                                                        |
|                                                                                                                                                       | Primary   | (82.4)                                                                                   | 49                                                         |
|                                                                                                                                                       | Middle    | (86.3)                                                                                   | 35                                                         |
|                                                                                                                                                       | Matric    | 84.2                                                                                     | 84                                                         |
|                                                                                                                                                       | Higher    | (91.5)                                                                                   | 41                                                         |
| <b>Wealth index quintiles</b>                                                                                                                         | Poorest   | 71.1                                                                                     | 128                                                        |
|                                                                                                                                                       | Second    | 79.5                                                                                     | 222                                                        |
|                                                                                                                                                       | Middle    | 80.6                                                                                     | 228                                                        |
|                                                                                                                                                       | Fourth    | 84.6                                                                                     | 251                                                        |
|                                                                                                                                                       | Richest   | 80.3                                                                                     | 264                                                        |
| <b>Total</b>                                                                                                                                          |           | 80.1                                                                                     | 1,093                                                      |

Note 1: Figures shown in parenthesis are based on denominators of 25-49 un-weighted cases

Note 2: Figures marked by an asterisk (\*) are based on denominators of 24 un-weighted cases and less.

Note 3: 2 mothers not in household are not shown.

[1] MICS indicator 7.2

165. As seen from table ED2, 80.1 percent of children attending first grade were in pre-school in the previous year on overall basis, slightly more females (81.9%) than males (78.9%) and marginally more urban children than those from the rural areas. School readiness preparation was found highest among children from Makran region at 92.3 percent



and lowest among those from Sibi region at 62.7 percent, while minimum variation were observed among children from various wealth index quintiles.

## **10.2 Primary and secondary school participation**

166. Universal access to basic education and the achievement of primary education by the world's children is one of the most important goals of the Millennium Development Goals and A World Fit for Children. Education is a vital prerequisite for combating poverty, empowering women, protecting children from hazardous and exploitative labour and sexual exploitation, promoting human rights and democracy, protecting the environment, and influencing population growth.

167. In the formal education system of Pakistan, there are four stages to complete high school graduation. Both public sector and private sector schools provide pre-primary education for two years as a proxy for early childhood education. The age group for pre-primary is 3 to 5 years. Primary schooling consists of five classes and enrolls children of 5-9 years. Middle schooling is for three years aimed at the age group of 10-12 years. The high school stage is for two years comprising classes 9 and 10; the secondary school certificate is awarded on qualifying an examination conducted by a regional board.

168. The indicators for primary and secondary school attendance include the following and each indicator is discussed in detailed in the paragraphs that follow:

- Net intake rate in primary education
- Net primary school attendance rate
- Net secondary school attendance rate
- Net primary school attendance rate of children of secondary school age
- Female to male education ratio (or gender parity index - GPI)

### **10.2.1 Net intake rate in primary education**

169. Information of children on primary school entry age entering grade 1 is presented in Table ED.2.

170. The percentage of children of primary school entry age (age 5) entering grade 1 was found as low as 19.8 percent with boys slightly on the higher side (20.7%) than girls (18.6%) and also in urban versus rural children at 28.5 percent and 17.4 respectively. The net intake rate was highest in Makran region at 36.7 percent and lowest in Zhob and Sibi regions at 8.9 and 9.4 percent respectively. Similar variations in net intake rate were also observed in children coming from richest wealth quintile at 31.1 percent and whose mothers had some formal education ranging from 26.3 percent to 49.4 percent.

### **10.2.2 Children of primary school age attending primary or secondary school**

171. As seen from Table ED.3<sup>9</sup>, overall 56% of children age 6-11 are not attending primary or secondary school. The net attendance ratio (adjusted) was 44 percent with slightly higher

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<sup>9</sup> Ratios presented in table ED. 3 are "adjusted" since they include not only primary school attendance, but also secondary school attendance in the numerator.

ratio for male children at 47.6 percent than girls at 39.6 percent. Urban resident children had much higher attendance ratio at 57.4 percent against 40.5 percent in rural children; this ratio was also higher for both urban and rural male children at 59.9 percent and 44.5 percent respectively than for urban girls (54.6%) and rural (35.2%). Thus, male children were found at advantage over female children in terms of net attendance ratio and also urban children over rural children.

172. Children were found late starters (or may be repeaters) in the school system as just over half of the children age 10 and 11 years were attending primary school. Mother's education was found as a contributing factor towards higher net attendance ratio as well as those hailing from upper two and middle wealth quintiles.

**Table ED.2: Primary school entry  
Percentage of children of primary school entry age entering grade 1 (net intake rate), Balochistan Province,  
Pakistan, 2010**

|                               |           | Percentage of<br>children of primary<br>school entry age<br>entering grade 1 [1] | Number of children<br>of primary school<br>entry age |
|-------------------------------|-----------|----------------------------------------------------------------------------------|------------------------------------------------------|
| <b>Sex</b>                    | Male      | 20.7                                                                             | 1,643                                                |
|                               | Female    | 18.6                                                                             | 1,382                                                |
| <b>Region</b>                 | Quetta    | 26.0                                                                             | 624                                                  |
|                               | Kalat     | 19.6                                                                             | 644                                                  |
|                               | Sibi      | 9.4                                                                              | 319                                                  |
|                               | Zhob      | 8.9                                                                              | 476                                                  |
|                               | Nasirabad | 15.1                                                                             | 540                                                  |
|                               | Makran    | 36.7                                                                             | 422                                                  |
| <b>Area</b>                   | Urban     | 28.5                                                                             | 649                                                  |
|                               | Rural     | 17.4                                                                             | 2,376                                                |
| <b>Mother's education</b>     | None      | 17.7                                                                             | 2,701                                                |
|                               | Primary   | 26.3                                                                             | 95                                                   |
|                               | Middle    | 47.5                                                                             | 33                                                   |
|                               | Matric    | 49.4                                                                             | 106                                                  |
|                               | Higher    | 30.4                                                                             | 87                                                   |
| <b>Wealth index quintiles</b> | Poorest   | 10.9                                                                             | 598                                                  |
|                               | Second    | 16.2                                                                             | 622                                                  |
|                               | Middle    | 18.4                                                                             | 651                                                  |
|                               | Fourth    | 23.5                                                                             | 614                                                  |
|                               | Richest   | 31.1                                                                             | 539                                                  |
| <b>Total</b>                  |           | 19.8                                                                             | 3,025                                                |

[1] MICS indicator 7.3

One case with preschool and 2 cases with madrassa level of education are not shown

**Table ED.3: Primary school attendance**  
**Percentage of children of primary school age attending primary or secondary school (Net attendance ratio),**  
**Balochistan Province, Pakistan, 2010**

|                                        |           | Male                                |                    | Female                              |                    | Total                               |                    |
|----------------------------------------|-----------|-------------------------------------|--------------------|-------------------------------------|--------------------|-------------------------------------|--------------------|
|                                        |           | Net attendance ratio (adjusted) [1] | Number of children | Net attendance ratio (adjusted) [1] | Number of children | Net attendance ratio (adjusted) [1] | Number of children |
| <b>Region</b>                          | Quetta    | 57.2                                | 2,029              | 43.0                                | 1,656              | 50.8                                | 3,685              |
|                                        | Kalat     | 39.3                                | 2,064              | 34.8                                | 1,658              | 37.3                                | 3,722              |
|                                        | Sibi      | 48.0                                | 1,082              | 41.3                                | 621                | 45.6                                | 1,703              |
|                                        | Zhob      | 31.4                                | 1,449              | 23.3                                | 1,115              | 27.9                                | 2,564              |
|                                        | Nasirabad | 40.8                                | 1,551              | 29.5                                | 1,246              | 35.7                                | 2,797              |
|                                        | Makran    | 74.3                                | 1,173              | 73.7                                | 938                | 74.0                                | 2,111              |
| <b>Area</b>                            | Urban     | 59.9                                | 1,899              | 54.6                                | 1,629              | 57.4                                | 3,528              |
|                                        | Rural     | 44.5                                | 7,449              | 35.2                                | 5,605              | 40.5                                | 13,054             |
| <b>Age at beginning of school year</b> | 6         | 27.8                                | 1,643              | 25.4                                | 1,382              | 26.7                                | 3,025              |
|                                        | 7         | 40.0                                | 1,675              | 32.2                                | 1,235              | 36.7                                | 2,910              |
|                                        | 8         | 52.5                                | 1,451              | 47.9                                | 1,236              | 50.4                                | 2,687              |
|                                        | 9         | 55.5                                | 1,714              | 42.8                                | 1,244              | 50.2                                | 2,958              |
|                                        | 10        | 54.9                                | 1,257              | 47.6                                | 984                | 51.7                                | 2,240              |
|                                        | 11        | 57.2                                | 1,608              | 45.3                                | 1,154              | 52.2                                | 2,762              |
| <b>Mother's education</b>              | None      | 45.2                                | 8,523              | 36.4                                | 6,572              | 41.3                                | 15,113             |
|                                        | Primary   | 72.1                                | 266                | 60.6                                | 177                | 67.5                                | 443                |
|                                        | Middle    | 66.8                                | 104                | 80.0                                | 94                 | 73.1                                | 197                |
|                                        | Matric    | 79.5                                | 237                | 79.2                                | 218                | 79.4                                | 454                |
|                                        | Higher    | 71.9                                | 204                | 70.4                                | 168                | 71.2                                | 371                |
| <b>Wealth index quintiles</b>          | Poorest   | 26.4                                | 1,919              | 18.8                                | 1,476              | 23.1                                | 3,395              |
|                                        | Second    | 41.3                                | 1,867              | 30.6                                | 1,544              | 36.5                                | 3,411              |
|                                        | Middle    | 53.2                                | 2,013              | 38.4                                | 1,511              | 46.8                                | 3,524              |
|                                        | Fourth    | 54.6                                | 1,912              | 48.3                                | 1,353              | 52.0                                | 3,265              |
|                                        | Richest   | 64.6                                | 1,637              | 65.3                                | 1,349              | 64.9                                | 2,987              |
| <b>Total</b>                           |           | 47.6                                | 9,348              | 39.6                                | 7,233              | 44.1                                | 16,582             |

Note: 3 numbers of cases with missing "mother's education" 8 preschool, 10 madrassa, one mother not at home are not shown

[1] MICS indicator 7.4; MDG indicator 2.1

### 10.2.3 Children of secondary school age attending secondary school or high school

173. Net secondary school attendance ratio means percentage of children of secondary school age currently attending secondary school or higher. The data related to this indicator is presented in Table ED. 4<sup>10</sup>.

<sup>10</sup> Ratios presented in table ED. 4 are "adjusted" since they include not only secondary school attendance, but also attendance to higher level in the numerator.

174. The table 4 shows that only 27.8 percent children age group 12-17 years were currently attending either secondary school or higher class, showing males are at more advantage than females in accessing education by 16 percent points on overall basis (35.2% versus 19.1%), by 10 percent points in urban areas (46.5% versus 36.1%) and by 17 percent points in rural areas (31.8% versus 13.7%). Regional disparities were considerable; net secondary school attendance ratio was highest in Makran region at 55.3 percent and lowest in Zhob region at 16.5 percent. Similarly, intra-regional disparities between male and female students were also marked and net attendance ratios of female students in each region were found considerably less than those of male students, but relatively much less disparity in Makran region. Mother's education had a positive contribution in net attendance ratio. Age of students at the beginning of school year was nearly evenly distributed between ages 12 to 17 years.

#### **10.2.4 Net primary school attendance rate of children of secondary school age**

175. Many children between the ages of 12-17 years were attending primary school as seen from Table ED.4. On overall basis, 9.4 percent children of secondary school age were enrolled at primary level, more so in case of boys on overall basis (11.6%) than girls (6.8%); however, there was little variation between urban and rural areas. Inter-region variations were also observed, e.g. 12.2 percent children of high school age were enrolled in primary school in Sibi region compared to 6.4 percent in Zhob. With respect to mother's education, much lesser proportion of older children with mother's education between middle to higher level were enrolled in primary classes (in the range of 5-8%).

#### **10.2.5 Female to male education ratio (gender parity index)**

176. Data on gender parity index (GPI) is presented at Table ED. 5, given below. GPI for primary school adjusted Net Attendance Ratio (NAR) of girls to boys was observed at 0.83, with urban and rural ratios of 0.91 and 0.79 respectively, showing lower participation rate of girls from rural areas. GPI was either close to or more than 1.0 in children coming from richest wealth quintile, or where mother's education was either middle or matric or higher level, and also in Makran region.

177. GPI for secondary school adjusted NAR of girls to boys was observed at 0.60, with urban and rural ratio of 0.86 and 0.48 respectively, showing much lower participation rate of girls at secondary level than that at primary level and also from the rural areas. The GPI for secondary schools was highest in Makran region at 0.86 and lowest in Sibi region at 0.22. With reference to wealth quintiles, GPI for girls to boys at secondary level was highest in richest quintile at 0.85 and almost at the same level in the rest of the four wealth quintiles (0.44 to 0.54).

178. Three indicators related to school progression are shown below and their details are given in the paragraphs that follow.

- Survival rate to grade five
- Net primary completion rate
- Transition rate to secondary school

**Table ED.4: Secondary school attendance**  
**Percentage of children of secondary school age attending secondary school or higher (adjusted net attendance ratio), and percentage of children attending primary school, Balochistan Province, Pakistan, 2010**

|                                        |                         | Male                                |                                  |                    | Female                              |                                  |                    | Total                               |                                  |                    |
|----------------------------------------|-------------------------|-------------------------------------|----------------------------------|--------------------|-------------------------------------|----------------------------------|--------------------|-------------------------------------|----------------------------------|--------------------|
|                                        |                         | Net attendance ratio (adjusted) [1] | Percent attending primary school | Number of children | Net attendance ratio (adjusted) [1] | Percent attending primary school | Number of children | Net attendance ratio (adjusted) [1] | Percent attending primary school | Number of children |
| <b>Region</b>                          | Quetta                  | 40.8                                | 13.5                             | 1,805              | 20.0                                | 6.3                              | 1,755              | 30.5                                | 10.0                             | 3,560              |
|                                        | Kalat                   | 22.2                                | 11.6                             | 1,669              | 14.3                                | 6.2                              | 1,325              | 18.8                                | 9.2                              | 2,997              |
|                                        | Sibi                    | 42.6                                | 13.4                             | 738                | 8.4                                 | 10.5                             | 509                | 28.6                                | 12.2                             | 1,246              |
|                                        | Zhob                    | 21.5                                | 8.1                              | 1,110              | 10.1                                | 4.2                              | 869                | 16.5                                | 6.4                              | 1,980              |
|                                        | Nasirabad               | 29.8                                | 11.6                             | 1,149              | 9.8                                 | 5.8                              | 1,122              | 19.9                                | 8.8                              | 2,271              |
|                                        | Makran                  | 58.7                                | 10.6                             | 1,159              | 50.9                                | 10.0                             | 897                | 55.3                                | 10.3                             | 2,056              |
| <b>Area</b>                            | Urban                   | 46.5                                | 11.4                             | 1,753              | 36.1                                | 6.8                              | 1,563              | 41.6                                | 9.3                              | 3,317              |
|                                        | Rural                   | 31.8                                | 11.6                             | 5,877              | 13.7                                | 6.7                              | 4,913              | 23.6                                | 9.4                              | 1,0793             |
| <b>Age at beginning of school year</b> | 12 year                 | 29.4                                | 32.4                             | 1,321              | 20.9                                | 22.3                             | 1,119              | 25.5                                | 27.7                             | 2,441              |
|                                        | 13 year                 | 38.0                                | 17.8                             | 1,108              | 21.8                                | 9.0                              | 1,119              | 29.9                                | 13.4                             | 2,228              |
|                                        | 14 year                 | 38.6                                | 10.0                             | 1,468              | 22.4                                | 3.7                              | 1,129              | 31.6                                | 7.3                              | 2,598              |
|                                        | 15 year                 | 37.7                                | 3.8                              | 1,450              | 14.7                                | 2.2                              | 1,065              | 27.9                                | 3.2                              | 2,514              |
|                                        | 16 year                 | 34.2                                | 3.1                              | 946                | 19.3                                | 1.6                              | 778                | 27.5                                | 2.4                              | 1,724              |
|                                        | 17 year                 | 32.7                                | 1.9                              | 1,338              | 15.7                                | 0.9                              | 1,267              | 24.4                                | 1.4                              | 2,604              |
| <b>Mothers educated</b>                | None                    | 34.9                                | 13.4                             | 6,000              | 18.0                                | 8.2                              | 4,836              | 27.4                                | 11.1                             | 10,853             |
|                                        | Primary                 | 54.1                                | 21.4                             | 102                | 41.9                                | 7.6                              | 114                | 47.7                                | 14.2                             | 217                |
|                                        | Middle                  | 50.1                                | 13.0                             | 63                 | 60.0                                | 2.9                              | 58                 | 54.9                                | 8.1                              | 121                |
|                                        | Matric                  | 72.8                                | 7.0                              | 145                | 46.8                                | 9.8                              | 158                | 59.3                                | 8.4                              | 303                |
|                                        | Higher                  | 67.3                                | 3.3                              | 123                | 74.1                                | 6.8                              | 91                 | 70.2                                | 4.8                              | 213                |
|                                        | Mother not in household | 26.1                                | 2.7                              | 1,181              | 11.6                                | 0.8                              | 1,218              | 18.8                                | 1.8                              | 2,399              |
| <b>Wealth index quintiles</b>          | Poorest                 | 12.2                                | 7.7                              | 1,539              | 6.5                                 | 3.3                              | 1,280              | 9.6                                 | 5.7                              | 2,819              |
|                                        | Second                  | 26.2                                | 13.0                             | 1,433              | 11.8                                | 7.0                              | 1,325              | 19.3                                | 10.1                             | 2,757              |
|                                        | Middle                  | 37.7                                | 11.8                             | 1,559              | 14.3                                | 6.9                              | 1,232              | 27.3                                | 9.6                              | 2,791              |
|                                        | Fourth                  | 47.3                                | 13.7                             | 1,589              | 21.3                                | 8.8                              | 1,318              | 35.5                                | 11.5                             | 2,910              |
|                                        | Richest                 | 51.8                                | 11.7                             | 1,510              | 40.8                                | 7.8                              | 1,322              | 46.7                                | 9.9                              | 2,833              |
| <b>Total</b>                           |                         | 35.2                                | 11.6                             | 7,630              | 19.1                                | 6.8                              | 6,477              | 27.8                                | 9.4                              | 14,111             |

Note 1: Ratios presented in this table are "adjusted" since they include not only secondary school attendance, but also attendance to higher levels in the numerator.

Note 2: 4 number of cases with missing "adjusted net attendance ratio" are not shown.

Note 3: 3 number of cases with missing "mother's education" are not shown.

Note 4: 6 number of cases with preschool and 7 cases with madrasa level of education of mother are not shown.

[1] MICS indicator 7.5

**Table ED.5: Education gender parity  
Ratio of adjusted net attendance ratios of girls to boys, in primary and secondary school,  
Balochistan Province, Pakistan, 2010**

|                                   |           | Primary<br>school<br>adjusted<br>net<br>attendance<br>ratio<br>(NAR),<br>girls | Primary<br>school<br>adjusted<br>net<br>attendance<br>ratio<br>(NAR),<br>boys | Gender<br>parity<br>index<br>(GPI) for<br>primary<br>school<br>adjusted<br>NAR [1] | Secondary<br>school<br>adjusted<br>net<br>attendance<br>ratio<br>(NAR),<br>girls | Secondary<br>school<br>adjusted<br>net<br>attendance<br>ratio<br>(NAR),<br>boys | Gender<br>parity<br>index<br>(GPI) for<br>secondary<br>school<br>adjusted<br>NAR [2] |
|-----------------------------------|-----------|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>Region</b>                     | Quetta    | 43.0                                                                           | 57.2                                                                          | 0.75                                                                               | 23.4                                                                             | 38.7                                                                            | 0.60                                                                                 |
|                                   | Kalat     | 34.8                                                                           | 39.3                                                                          | 0.89                                                                               | 14.0                                                                             | 19.8                                                                            | 0.71                                                                                 |
|                                   | Sibi      | 41.3                                                                           | 48.0                                                                          | 0.86                                                                               | 8.1                                                                              | 35.9                                                                            | 0.22                                                                                 |
|                                   | Zhob      | 23.3                                                                           | 31.4                                                                          | 0.74                                                                               | 11.8                                                                             | 21.1                                                                            | 0.56                                                                                 |
|                                   | Nasirabad | 29.5                                                                           | 40.8                                                                          | 0.72                                                                               | 9.6                                                                              | 29.3                                                                            | 0.33                                                                                 |
|                                   | Makran    | 73.7                                                                           | 74.3                                                                          | 0.99                                                                               | 52.1                                                                             | 60.3                                                                            | 0.86                                                                                 |
| <b>Area</b>                       | Urban     | 54.6                                                                           | 59.9                                                                          | 0.91                                                                               | 39.7                                                                             | 46.5                                                                            | 0.86                                                                                 |
|                                   | Rural     | 35.2                                                                           | 44.5                                                                          | 0.79                                                                               | 14.1                                                                             | 29.5                                                                            | 0.48                                                                                 |
| <b>Mother's<br/>education</b>     | None      | 36.4                                                                           | 45.2                                                                          | 0.80                                                                               | 17.3                                                                             | 31.4                                                                            | 0.55                                                                                 |
|                                   | Primary   | 60.6                                                                           | 72.1                                                                          | 0.84                                                                               | 42.8                                                                             | 46.4                                                                            | 0.92                                                                                 |
|                                   | Middle    | 80.0                                                                           | 66.8                                                                          | 1.20                                                                               | 71.6                                                                             | 53.3                                                                            | 1.34                                                                                 |
|                                   | Matric    | 79.2                                                                           | 79.5                                                                          | 1.00                                                                               | 54.5                                                                             | 78.8                                                                            | 0.69                                                                                 |
|                                   | Higher    | 70.4                                                                           | 71.9                                                                          | 0.98                                                                               | 78.8                                                                             | 76.6                                                                            | 1.03                                                                                 |
| <b>Wealth index<br/>quintiles</b> | Poorest   | 18.8                                                                           | 26.4                                                                          | 0.71                                                                               | 6.3                                                                              | 11.5                                                                            | 0.54                                                                                 |
|                                   | Second    | 30.6                                                                           | 41.3                                                                          | 0.74                                                                               | 12.5                                                                             | 24.2                                                                            | 0.52                                                                                 |
|                                   | Middle    | 38.4                                                                           | 53.2                                                                          | 0.72                                                                               | 15.0                                                                             | 34.1                                                                            | 0.44                                                                                 |
|                                   | Fourth    | 48.3                                                                           | 54.6                                                                          | 0.88                                                                               | 22.5                                                                             | 43.5                                                                            | 0.52                                                                                 |
|                                   | Richest   | 65.3                                                                           | 64.6                                                                          | 1.01                                                                               | 45.4                                                                             | 53.5                                                                            | 0.85                                                                                 |
| <b>Total</b>                      |           | 39.6                                                                           | 47.6                                                                          | 0.83                                                                               | 20.2                                                                             | 33.4                                                                            | 0.60                                                                                 |

[1] MICS indicator 7.9; MDG indicator 3.1

[2] MICS indicator 7.10; MDG indicator 3.1

Note 1: 3 number of cases with missing "mother's education" are not shown.

Note 2: 6 number of cases with preschool and 7 cases with madrassa level of education of mother are not shown.

### 10.2.5.1 Net primary completion rate

179. This indicator measures the number of children of any age attending the last grade of primary school (excluding repeaters) divided by the number of children of primary school completion age. As seen from Table ED.7, net primary completion rate was at 56 percent on overall basis with a higher completion rate in boys at 59.4 percent than girls at 51.3 percent, and also higher completion rate in urban students at 67.3 percent than those from rural areas at 52.7 percent. The primary school completion rate was much lower in children coming from lowest wealth quintile (23.2%), Zhob region (33.2%) and in children from mothers with no-education (51%).

### 10.2.5.2 Survival rate to grade five

180. As shown in Table ED.6, given below, 99.1 percent of children who entered grade 1 were able to reach grade 5, meaning thereby that dropout rates were minimal. Since children reaching grade 5 is very high percentages have also been observed with reference to various variables like sex, region, area of residence, mother's education and wealth quintiles.

**Table ED.6: Children reaching last grade of primary school**  
**Percentage of children entering first grade of primary school who eventually reach the last grade of primary school**  
**(Survival rate to last grade of primary school), Balochistan Province, Pakistan, 2010**

|                               |           | Percent attending grade 1 last year who are in grade 2 this year | Percent attending grade 2 last year who are attending grade 3 this year | Percent attending grade 3 last year who are attending grade 4 this year | Percent attending grade 4 last year who are attending grade 5 this year | Percent who reach grade 5 of those who enter grade 1 [1] |
|-------------------------------|-----------|------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------------------------------|
| <b>Sex</b>                    | Male      | 99.9                                                             | 99.8                                                                    | 99.8                                                                    | 99.9                                                                    | 99.6                                                     |
|                               | Female    | 100.0                                                            | 99.8                                                                    | 99.0                                                                    | 99.4                                                                    | 98.2                                                     |
| <b>Region</b>                 | Quetta    | 100.0                                                            | 99.8                                                                    | 99.2                                                                    | 99.6                                                                    | 98.6                                                     |
|                               | Kalat     | 99.9                                                             | 99.2                                                                    | 99.5                                                                    | 100.0                                                                   | 98.6                                                     |
|                               | Sibi      | 100.0                                                            | 100.0                                                                   | 99.8                                                                    | 100.0                                                                   | 99.8                                                     |
|                               | Zhob      | 100.0                                                            | 100.0                                                                   | 100.0                                                                   | 100.0                                                                   | 100.0                                                    |
|                               | Nasirabad | 100.0                                                            | 100.0                                                                   | 98.8                                                                    | 99.7                                                                    | 98.6                                                     |
|                               | Makran    | 100.0                                                            | 100.0                                                                   | 100.0                                                                   | 99.5                                                                    | 99.5                                                     |
| <b>Area</b>                   | Urban     | 100.0                                                            | 100.0                                                                   | 100.0                                                                   | 99.5                                                                    | 99.5                                                     |
|                               | Rural     | 100.0                                                            | 99.8                                                                    | 99.3                                                                    | 99.8                                                                    | 98.8                                                     |
| <b>Mother's education</b>     | None      | 100.0                                                            | 99.8                                                                    | 99.5                                                                    | 99.7                                                                    | 98.9                                                     |
|                               | Primary   | 100.0                                                            | 100.0                                                                   | 100.0                                                                   | 100.0                                                                   | 100.0                                                    |
|                               | Middle    | 100.0                                                            | 100.0                                                                   | 100.0                                                                   | 100.0                                                                   | 100.0                                                    |
|                               | Matric    | 100.0                                                            | 100.0                                                                   | 100.0                                                                   | 100.0                                                                   | 100.0                                                    |
|                               | Higher    | 100.0                                                            | 100.0                                                                   | 100.0                                                                   | 100.0                                                                   | 100.0                                                    |
| <b>Wealth index quintiles</b> | Poorest   | 99.7                                                             | 99.5                                                                    | 99.7                                                                    | 100.0                                                                   | 98.9                                                     |
|                               | Second    | 100.0                                                            | 99.7                                                                    | 99.2                                                                    | 100.0                                                                   | 98.9                                                     |
|                               | Middle    | 100.0                                                            | 99.7                                                                    | 99.4                                                                    | 99.1                                                                    | 98.2                                                     |
|                               | Fourth    | 100.0                                                            | 100.0                                                                   | 99.8                                                                    | 99.6                                                                    | 99.4                                                     |
|                               | Richest   | 100.0                                                            | 100.0                                                                   | 99.6                                                                    | 100.0                                                                   | 99.6                                                     |
| <b>Total</b>                  |           | 100.0                                                            | 99.6                                                                    | 99.7                                                                    | 99.8                                                                    | 99.1                                                     |

[1] MICS indicator 7.6; MDG indicator 2.2

Note 1: 3 number of cases with missing "mother's education" are not shown.

Note 2: 6 number of cases with preschool and 7 cases with madrassa level of education of mother are not shown.

### 10.2.5.3 Transition rate to secondary school

181. This indicator measures the percentage of children attending the first grade of secondary school who were in the last grade of primary school during the previous years. The indicator thus helps in measuring the drop-out of students between the end of class 5 to the

beginning of class 6. As per data given in Table ED.7, the overall transition rate to secondary school was quite high to the level of 91 percent with little variation between male and female, different regions, in different wealth quintiles and with reference to mother's education.

**Table ED.7: Primary school completion and transition to secondary school  
Primary school completion rates and transition rate to secondary school, Balochistan Province, Pakistan, 2010**

|                               |                | Primary school completion rate [1] | Number of children of primary school completion age | Transition rate to secondary school [2] | Number of children who were in the last grade of primary school the previous year |
|-------------------------------|----------------|------------------------------------|-----------------------------------------------------|-----------------------------------------|-----------------------------------------------------------------------------------|
| <b>Sex</b>                    | Male           | 59.4                               | 1,608                                               | 89.9                                    | 765                                                                               |
|                               | Female         | 51.3                               | 1,154                                               | 93.6                                    | 371                                                                               |
| <b>Region</b>                 | Quetta         | 58.6                               | 625                                                 | 87.9                                    | 310                                                                               |
|                               | Kalat          | 35.1                               | 712                                                 | 93.0                                    | 167                                                                               |
|                               | Sibi           | 69.1                               | 268                                                 | 97.7                                    | 106                                                                               |
|                               | Zhob           | 33.2                               | 422                                                 | 88.5                                    | 104                                                                               |
|                               | Nasirabad      | 48.7                               | 485                                                 | 82.2                                    | 164                                                                               |
|                               | Makran         | 147.0                              | 251                                                 | 97.0                                    | 284                                                                               |
| <b>Area</b>                   | Urban          | 67.3                               | 623                                                 | 94.8                                    | 390                                                                               |
|                               | Rural          | 52.7                               | 2,139                                               | 89.1                                    | 745                                                                               |
| <b>Mother's education</b>     | No education   | 52.5                               | 2,571                                               | 90.7                                    | 977                                                                               |
|                               | Some education | 104.0                              | 191                                                 | 93.4                                    | 158                                                                               |
| <b>Wealth index quintiles</b> | Poorest        | 23.2                               | 613                                                 | 86.9                                    | 104                                                                               |
|                               | Second         | 49.2                               | 549                                                 | 83.6                                    | 173                                                                               |
|                               | Middle         | 60.6                               | 543                                                 | 91.1                                    | 232                                                                               |
|                               | Fourth         | 67.3                               | 555                                                 | 94.8                                    | 270                                                                               |
|                               | Richest        | 86.1                               | 502                                                 | 93.1                                    | 357                                                                               |
| <b>Total</b>                  |                | 56.0                               | 2,762                                               | 91.1                                    | 1,135                                                                             |

[1] MICS indicator 7.7

[2] MICS indicator 7.8

### 10.3 Adult literacy

182. One of the World Fit for Children Goals is to assure adult literacy. Adult literacy is also an MDG indicator, relating to both men and women. In MICS, since only a women's questionnaire was administered, the results are based only on females age 15-24 years. Literacy was assessed on the ability of women to read a short simple statement or on highest school attendance.

183. Findings of the survey on "literacy among young women of age 15-24 years", as presented in TableED.8 show that around 1/3rd (33 percent) of young women in the sample were found literate on the basis of "ability to read a short simple statement". Further, women in the younger cohort had higher literacy levels at 35 percent than those in the next age bracket (30 percent) meaning that literacy rate has improved by 4 percent points in the recent past. Young women in urban areas had a much higher literacy rate to the tune of 59 percent than those residing in the rural areas at 23 percent.



184. Literacy rate by regions show wide variation ranging from as low as 16 percent in Zhob region to as high as 69 percent in Makran region; understanding the dynamics of these variations requires further investigation in terms of access to schools, institutional arrangements, and poverty levels in various regions. The relationship between literacy and poverty in terms of wealth quintiles is also very alarming; only 7.5 percent women in the poorest wealth quintile and 16.6 percent in next upper quintile were literate compared to 67 percent in the richest quintile. This finding indicates that public sector expenditure on education is poorly targeted on poorest of the poor and demands further investigation to redesign the policies and programs for proper targeting of public subsidies.

185. The table shows literacy level by women's educational background. While it is surprising that only 39 percent of women who have attended primary school can read a simple sentence, it should be noted that educational background is based on the highest level ever attended and does not imply that the women have attended up to grade 5 or have cleared the primary school examination.

**Table ED.8: Literacy among young women**  
**Percentage of women age 15-24 years who are literate, Balochistan Province, Pakistan, 2010**

|                               |             | Percentage literate [1] | Percentage not known | Number of women age 15-24 years |
|-------------------------------|-------------|-------------------------|----------------------|---------------------------------|
| <b>Region</b>                 | Quetta      | 39.1                    | 3.9                  | 2,287                           |
|                               | Kalat       | 25.5                    | 3.8                  | 1,469                           |
|                               | Sibi        | 25.8                    | 2.1                  | 336                             |
|                               | Zhob        | 16.1                    | 1.8                  | 962                             |
|                               | Nasirabad   | 22.5                    | 1.5                  | 1,369                           |
|                               | Makran      | 69.5                    | 5.6                  | 798                             |
| <b>Area</b>                   | Urban       | 58.8                    | 4.4                  | 1,989                           |
|                               | Rural       | 23.0                    | 2.8                  | 5,233                           |
| <b>Education</b>              | None        | 0.4                     | 0.4                  | 4,412                           |
|                               | Primary     | 39.4                    | 2.6                  | 751                             |
|                               | Middle      | 100.0                   | 31.6                 | 617                             |
|                               | Matric      | 100.0                   | 0.0                  | 937                             |
|                               | Higher      | 100.0                   | 0.0                  | 503                             |
| <b>Age</b>                    | 15-19 years | 34.8                    | 3.7                  | 4,250                           |
|                               | 20-24 years | 30.2                    | 2.6                  | 2,972                           |
| <b>Wealth index quintiles</b> | Poorest     | 7.5                     | 1.7                  | 1,301                           |
|                               | Second      | 16.5                    | 2.6                  | 1,430                           |
|                               | Middle      | 22.5                    | 2.6                  | 1,320                           |
|                               | Fourth      | 40.6                    | 4.9                  | 1,455                           |
|                               | Richest     | 67.2                    | 4.0                  | 1,715                           |
| <b>Total</b>                  |             | 32.9                    | 3.2                  | 7,222                           |

[1] MICS indicator 7.1; MDG indicator 2.3

# X1 Child Protection

## 11.1 Birth Registration

186. The Convention on the Rights of the Child states that every child has the right to a name and a nationality and the right to protection from being deprived of his or her identity. Birth registration is a fundamental means of securing these rights for children. The World Fit for Children states the goal to develop systems to ensure the registration of every child at or shortly after birth, and fulfil his or her right to acquire a name and a nationality, in accordance with national laws and relevant international instruments. The indicator measures the percentage of children <5 years of age whose births are reported and registered.

187. As seen from Table CP.1, birth of 23 percent children was reported as registered, but the interviewers could only verify registration of 3.2 percent of children by actually seeing the birth certificate. Large majority of mothers or caretakers of children were unable to show the birth certificate; this may be due to the reason that culturally men keep almost all records in the household in their custody and women may not have access to such records. Therefore, there is a possibility that some mothers or caretakers of children might have given incorrect information, not being the most appropriate respondent.

188. Since 2004 there have been continued awareness raising campaign on birth registration in Balochistan by UNICEF and inclusive projects for birth registration services in district Quetta, Chagai and Gawadar by UNICEF and UNDP respectively. The projects supported Local Government & Rural Development Department and National Database and Registration Authority (NADRA) in system strengthening and availing child birth registration services at Tehsil and union council levels through social mobilization, provision of subsidized rates of birth registration certification and capacity building of union council secretaries.

189. The media campaign has had a great impact in raising the family's awareness on the issue of BR; for example, district government of Gawadar and Chagai declared year 2010 as the birth registration year backed by a communication campaign. As of mid-June, 2010 some 0.346 million children <5years had been issued birth registration by NADRA which constitutes about 25 percent of children <5years (taking population of Balochistan at 9.4 million and children <5years at 15 percent of total population). With the Support of UNICEF in 5 districts 232,841 children received their birth registration certificates. These efforts contributed in placing the sustainable structure for birth registration at UC level and sensitized the community on the benefits, effectiveness of the BR Certificates which resulted in demand of birth registration at communities' level and overall increase in BR ratio. Therefore, MICS survey results appear to be in line with NADRA records.

**Table CP.1: Birth registration  
Percentage of children under age 5 by whether birth is registered and percentage of children not registered whose mothers/caretakers know how to register birth, Balochistan Province, Pakistan, 2010**

|                               |             | Children under age 5 whose birth is registered with civil authorities |          |                      |                      | Children under age 5 whose birth is not registered |                                                                        |                                               |
|-------------------------------|-------------|-----------------------------------------------------------------------|----------|----------------------|----------------------|----------------------------------------------------|------------------------------------------------------------------------|-----------------------------------------------|
|                               |             | Has birth certificate                                                 |          | No birth certificate | Total registered [1] | Number of children                                 | Percent of children whose mother/caretaker knows how to register birth | Number of children without birth registration |
|                               |             | Seen                                                                  | Not seen |                      |                      |                                                    |                                                                        |                                               |
| <b>Sex</b>                    | Male        | 3.3                                                                   | 16.5     | 3.8                  | 23.7                 | 5,222                                              | 2.7                                                                    | 3,986                                         |
|                               | Female      | 3.0                                                                   | 15.5     | 3.5                  | 22.0                 | 4,508                                              | 1.9                                                                    | 3,515                                         |
| <b>Region</b>                 | Quetta      | 6.1                                                                   | 16.6     | 1.6                  | 24.2                 | 2,548                                              | 2.7                                                                    | 1,931                                         |
|                               | Kalat       | 4.0                                                                   | 11.6     | 1.8                  | 17.4                 | 2,054                                              | 1.7                                                                    | 1,696                                         |
|                               | Sibi        | 2.4                                                                   | 10.3     | 0.9                  | 13.5                 | 798                                                | 0.6                                                                    | 690                                           |
|                               | Zhob        | 0.6                                                                   | 4.4      | 0.2                  | 5.2                  | 1,608                                              | 1.1                                                                    | 1,526                                         |
|                               | Nasirabad   | 0.3                                                                   | 16.8     | 7.1                  | 24.2                 | 1,743                                              | 2.6                                                                    | 1,322                                         |
|                               | Makran      | 4.0                                                                   | 46.3     | 15.0                 | 65.3                 | 982                                                | 11.4                                                                   | 341                                           |
|                               | <b>Area</b> | Urban                                                                 | 5.1      | 28.9                 | 4.5                  | 38.6                                               | 2,028                                                                  | 5.7                                           |
|                               | Rural       | 2.7                                                                   | 12.7     | 3.4                  | 18.8                 | 7,706                                              | 1.7                                                                    | 6,259                                         |
| <b>Age</b>                    | 0-11        | 2.0                                                                   | 12.8     | 3.4                  | 18.2                 | 1,362                                              | 4.2                                                                    | 1,113                                         |
|                               | 12-23       | 3.5                                                                   | 16.2     | 3.4                  | 23.2                 | 1,493                                              | 2.2                                                                    | 1,148                                         |
|                               | 24-35       | 2.4                                                                   | 15.9     | 3.6                  | 21.9                 | 1,973                                              | 1.5                                                                    | 1,542                                         |
|                               | 36-47       | 4.0                                                                   | 17.9     | 3.7                  | 25.6                 | 2,479                                              | 1.9                                                                    | 1,845                                         |
|                               | 48-59       | 3.4                                                                   | 16.0     | 4.0                  | 23.5                 | 2,426                                              | 2.4                                                                    | 1,857                                         |
| <b>Mother's education</b>     | None        | 2.8                                                                   | 13.2     | 3.4                  | 19.4                 | 8,338                                              | 1.4                                                                    | 6,734                                         |
|                               | Primary     | 1.8                                                                   | 16.6     | 5.3                  | 23.7                 | 428                                                | 3.0                                                                    | 327                                           |
|                               | Middle      | 3.7                                                                   | 23.9     | 3.7                  | 31.3                 | 210                                                | 6.3                                                                    | 144                                           |
|                               | Matric      | 6.3                                                                   | 42.5     | 6.9                  | 55.7                 | 420                                                | 15.4                                                                   | 186                                           |
|                               | Higher      | 11.0                                                                  | 49.2     | 4.4                  | 64.6                 | 321                                                | 30.2                                                                   | 114                                           |
| <b>Wealth index quintiles</b> | Poorest     | 0.8                                                                   | 8.3      | 2.5                  | 11.6                 | 2,033                                              | 0.7                                                                    | 1,797                                         |
|                               | Second      | 1.8                                                                   | 12.6     | 3.5                  | 17.8                 | 2,025                                              | 1.3                                                                    | 1,664                                         |
|                               | Middle      | 2.6                                                                   | 16.6     | 4.1                  | 23.4                 | 2,062                                              | 1.9                                                                    | 1,580                                         |
|                               | Fourth      | 4.6                                                                   | 17.3     | 3.8                  | 25.7                 | 1,868                                              | 2.1                                                                    | 1,388                                         |
|                               | Richest     | 6.8                                                                   | 27.2     | 4.5                  | 38.4                 | 1,746                                              | 7.5                                                                    | 1,075                                         |
| <b>Total</b>                  |             | 3.2                                                                   | 16.1     | 3.7                  | 22.9                 | 9,734                                              | 2.3                                                                    | 7,505                                         |

[1] MICS indicator 8.1

Note: 4 cases with missing sex; 7 cases with preschool and 10 cases with education level of madrassa are not reported

## 11.2 Child labour

190. Article 32 of the Convention on the Rights of the Child states: "States Parties recognize the right of the child to be protected from economic exploitation and from performing any work that is likely to be hazardous or to interfere with the child's education, or to be harmful to the child's health or physical, mental, spiritual, moral or social development..." The World Fit for Children mentions nine strategies to combat child labour and the MDGs call for the protection of children against exploitation. In the MICS

questionnaire, a number of questions addressed the issue of child labour, that is, children 5-14 years of age involved in labour activities. A child is considered to be involved in child labour activities at the moment of the survey if during the week preceding the survey:

- Ages 5-11: at least one hour of economic work or 28 hours of domestic work per week.
- Ages 12-14: at least 14 hours of economic work or 28 hours of domestic work per week.

191. This definition allows differentiation between child labour and child work to identify the type of work that should be eliminated. As such, the estimate provided here is a minimum of the prevalence of child labour since some children may be involved in hazardous labour activities for a number of hours that could be less than the numbers specified in the criteria explained above. Table CP.2 presents the results of child labour by the type of work. Percentages do not add up to the total child labour as children may be involved in more than one type of work.

192. As seen from table CP2, the survey provides information on child labour on 19,111 children in the age group 5-11 years, and 7,661 in the age group 12-14 years and their economic activity is discussed separately.

### **11.3 Pattern of child labour in children age 5-11 years**

193. Overall 18.8 percent children in this age group can be classified as involved in child labour; 0.5 percent were engaged in household chores for 28 hour a week or more and 18.6 percent in economic activity for at least one hour. Participation rate in labour activities was higher by: (i) 3.6 percent points in male than in female children; 8 percent points in rural than in urban children (20.5% versus 12.5%); (iii) 18.6 percent points in children from poorest wealth quintile than richest quintile (27.3% versus 8.7%); and (iv) 15.2 percent points in children whose mothers had 'no education' than those with higher level education (19.9% versus 4.7%). School participation had no impact on child labour.

### **11.4 Pattern of child labour in children age 12-14 years**

194. Relatively lesser number of children from this age group are likely to be participating in child labour than those from the age group 5-11 years. On overall basis, 13.6 percent children in this age group participated in child labour; 3.1 percent were engaged in household chores for 28 hour a week or more and 11.4 percent in economic activity. Participation rate was higher by: (i) 1.9 percent points in male than in female children (14.5 % versus 12.6%); 4.3 percent points in rural than in urban children (14.6% versus 10.3%); (iii) 11.5 percent points in children from poorest wealth quintile than those from richest quintile (19.9% versus 8.4%); and (iv) 12.2 percent point in children whose mothers had 'no education' than those with higher level education (13.9% versus 1.7%). School participation had marginal influence on child labour.

**Table CP.2: Child labour**  
**Percentage of children by involvement in economic activity and household chores during the past week,**  
**according to age groups, and percentage of children age 5-14 involved in child labour, Balochistan Province, Pakistan, 2010**

|                               |           | Percentage of children age 5-11 involved in |           |             |              |                   |                    |                  |                          | Percentage of children age 12-14 involved in |           |             |              |                    |                  |                    |                      | Number of children age 12-14 | Total child labour [1] | Number of children age 5-14 years |
|-------------------------------|-----------|---------------------------------------------|-----------|-------------|--------------|-------------------|--------------------|------------------|--------------------------|----------------------------------------------|-----------|-------------|--------------|--------------------|------------------|--------------------|----------------------|------------------------------|------------------------|-----------------------------------|
|                               |           | Economic activity                           |           |             |              | Household chores  |                    |                  |                          | Economic activity                            |           |             |              | Household chores   |                  |                    |                      |                              |                        |                                   |
|                               |           | Working outside household                   | Paid work | Unpaid work | Child labour | at least one hour | less than 28 hours | 28 hours or more | No. of children age 5-11 | Working outside household                    | Paid work | Unpaid work | Child labour | less than 14 hours | 14 hours or more | less than 28 hours | for 28 hours or more |                              |                        |                                   |
| <b>Sex</b>                    | Male      | 1.5                                         | 2.4       | 18.8        | 20.3         | 20.6              | 0.3                | 20.4             | 10,622                   | 5.5                                          | 8.0       | 38.8        | 29.2         | 13.3               | 37.7             | 2.1                | 14.5                 | 4,080                        | 18.8                   | 14,702                            |
|                               | Female    | 0.9                                         | 1.7       | 15.1        | 16.4         | 27.6              | 0.8                | 16.8             | 8,488                    | 4.1                                          | 4.9       | 32.0        | 25.4         | 9.2                | 59.4             | 4.2                | 12.6                 | 3,579                        | 15.5                   | 12,067                            |
| <b>Region</b>                 | Quetta    | 0.4                                         | 0.9       | 10.3        | 11.1         | 18.0              | 0.4                | 11.4             | 4,244                    | 3.6                                          | 1.9       | 26.8        | 24.1         | 5.1                | 40.7             | 2.3                | 6.9                  | 1,687                        | 10.1                   | 5,932                             |
|                               | Kalat     | 1.3                                         | 4.3       | 21.6        | 25.0         | 34.4              | 1.2                | 25.5             | 4,153                    | 2.6                                          | 12.7      | 44.2        | 31.0         | 18.9               | 55.7             | 7.5                | 23.9                 | 1,737                        | 25.0                   | 5,890                             |
|                               | Sibi      | 0.5                                         | 1.9       | 28.5        | 29.4         | 27.8              | 0.0                | 29.4             | 1,997                    | 14.4                                         | 16.3      | 54.5        | 44.9         | 16.6               | 70.6             | 0.0                | 16.7                 | 760                          | 25.9                   | 2,757                             |
|                               | Zhob      | 0.6                                         | 1.8       | 18.4        | 18.9         | 14.5              | 0.4                | 18.9             | 3,069                    | 2.1                                          | 5.4       | 39.4        | 25.3         | 15.2               | 36.4             | 2.1                | 16.4                 | 1,099                        | 18.2                   | 4,168                             |
|                               | Nasirabad | 0.9                                         | 1.8       | 13.7        | 15.2         | 26.6              | 0.3                | 15.5             | 3,228                    | 5.1                                          | 3.3       | 30.1        | 26.2         | 6.4                | 56.2             | 2.5                | 8.8                  | 1,195                        | 13.7                   | 4,423                             |
|                               | Makran    | 4.6                                         | 1.2       | 15.3        | 15.8         | 19.7              | 0.3                | 15.9             | 2,420                    | 6.0                                          | 2.0       | 25.3        | 18.8         | 7.5                | 33.8             | 1.1                | 8.6                  | 1,182                        | 13.5                   | 3,602                             |
| <b>Area</b>                   | Urban     | 0.7                                         | 2.4       | 9.9         | 12.0         | 22.8              | 0.6                | 12.5             | 3,982                    | 3.5                                          | 3.9       | 20.6        | 17.9         | 6.7                | 41.1             | 4.0                | 10.3                 | 1,735                        | 11.8                   | 5,717                             |
|                               | Rural     | 1.4                                         | 2.0       | 19.1        | 20.3         | 24.0              | 0.5                | 20.5             | 15,128                   | 5.2                                          | 7.3       | 40.0        | 30.2         | 12.8               | 49.8             | 2.8                | 14.6                 | 5,926                        | 18.8                   | 21,055                            |
| <b>School participation</b>   | Yes       | 0.6                                         | 2.1       | 18.8        | 20.0         | 26.1              | 0.7                | 20.4             | 8,229                    | 3.2                                          | 5.6       | 31.9        | 23.4         | 10.9               | 43.4             | 2.7                | 12.9                 | 3,814                        | 18.0                   | 12,043                            |
|                               | No        | 1.7                                         | 2.1       | 15.9        | 17.5         | 22.0              | 0.4                | 17.6             | 10,882                   | 6.5                                          | 7.4       | 39.2        | 31.4         | 11.9               | 52.2             | 3.5                | 14.3                 | 3,847                        | 16.7                   | 14,729                            |
| <b>Mother's education</b>     | None      | 1.4                                         | 2.2       | 18.2        | 19.6         | 24.4              | 0.5                | 19.9             | 17,263                   | 5.1                                          | 6.8       | 36.7        | 28.4         | 11.7               | 48.7             | 3.1                | 13.9                 | 7,092                        | 18.1                   | 24,355                            |
|                               | Primary   | 0.0                                         | 0.9       | 9.8         | 10.3         | 18.3              | 0.5                | 10.7             | 561                      | 2.6                                          | 5.4       | 24.0        | 18.9         | 9.5                | 48.9             | 0.8                | 10.4                 | 166                          | 10.6                   | 727                               |
|                               | Middle    | 0.0                                         | 2.6       | 10.8        | 12.2         | 25.5              | 1.3                | 12.8             | 250                      | .0                                           | 1.0       | 21.0        | 12.9         | 8.7                | 34.3             | 8.9                | 14.3                 | 77                           | 13.2                   | 327                               |
|                               | Matric    | 1.0                                         | 1.1       | 6.5         | 7.8          | 16.0              | 0.2                | 8.0              | 572                      | 1.9                                          | 1.4       | 26.4        | 15.1         | 12.0               | 35.4             | 2.8                | 14.7                 | 191                          | 9.7                    | 763                               |
|                               | Higher    | 0.0                                         | 0.0       | 4.6         | 4.6          | 11.1              | 0.1                | 4.7              | 442                      | 0.0                                          | 1.4       | 9.4         | 9.1          | 0.2                | 23.9             | 1.4                | 1.7                  | 128                          | 4.0                    | 570                               |
| <b>Wealth index quintiles</b> | Poorest   | 3.4                                         | 2.6       | 25.7        | 27.1         | 27.9              | 0.9                | 27.3             | 3,899                    | 5.7                                          | 9.8       | 51.0        | 36.0         | 18.1               | 52.9             | 3.7                | 19.9                 | 1,633                        | 25.1                   | 5,533                             |
|                               | Second    | 1.4                                         | 2.3       | 19.7        | 20.9         | 25.2              | 0.4                | 21.1             | 4,035                    | 4.4                                          | 7.0       | 40.8        | 29.7         | 13.9               | 52.4             | 3.2                | 16.2                 | 1,525                        | 19.8                   | 5,560                             |
|                               | Middle    | 0.7                                         | 2.4       | 17.9        | 19.6         | 23.7              | 0.4                | 19.8             | 4,002                    | 5.5                                          | 6.6       | 32.1        | 25.9         | 10.1               | 47.4             | 3.0                | 12.3                 | 1,496                        | 17.8                   | 5,498                             |
|                               | Fourth    | 0.3                                         | 1.7       | 14.1        | 15.3         | 21.4              | 0.4                | 15.6             | 3,779                    | 5.9                                          | 4.6       | 32.0        | 26.6         | 8.7                | 45.6             | 2.3                | 10.6                 | 1,603                        | 14.1                   | 5,382                             |
|                               | Richest   | 0.4                                         | 1.3       | 7.0         | 8.3          | 19.7              | 0.4                | 8.7              | 3,396                    | 2.3                                          | 4.3       | 19.8        | 17.3         | 5.5                | 40.0             | 3.2                | 8.4                  | 1,403                        | 8.6                    | 4,799                             |
| <b>Total</b>                  |           | 1.3                                         | 2.1       | 17.2        | 18.6         | 23.7              | 0.5                | 18.8             | 19,111                   | 4.8                                          | 6.5       | 35.6        | 27.4         | 11.4               | 47.8             | 3.1                | 13.6                 | 7,661                        | 17.3                   | 26,771                            |

[1] MICS indicator 8.2; [Note: 2 cases with missing sex; 10 cases with preschool; 15 cases with madrassa level of education and 3 cases missing /DK of educational level are not shown]

195. Table CP.3 presents the percentage of children classified as student labourers or as labourer students. Student labourers are the children attending school that were involved in child labour activities at the time of the surveys. From 45 percent of the children 5-14 years of age attending school, 18 percent were also involved in child labour activities, relatively more from the rural areas and those coming from poorest wealth quintile. On the other hand, out of the 17.3 percent of the children classified as child labourers, 47 percent were also attending school, relatively more from the urban areas and those belonging to richest wealth quintile.

**Table CP.3: Child labour and school attendance**

**Percentage of children age 5-14 years involved in child labour who are attending school, and percentage of children age 5-14 years attending school who are involved in child labour, Balochistan Province, Pakistan, 2010**

|                               |             | Percentage of children involved in child labour | Percentage of children attending school | Number of children age 5-14 years | Percentage of child labourers who are attending school [1] | Number of children age 5-14 years involved in child labour | Percentage of children attending school who are involved in child labour[2] | Number of children age 5-14 years attending school |
|-------------------------------|-------------|-------------------------------------------------|-----------------------------------------|-----------------------------------|------------------------------------------------------------|------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------|
| <b>Sex</b>                    | Male        | 18.8                                            | 50.1                                    | 14,702                            | 52.8                                                       | 2,764                                                      | 19.8                                                                        | 7,368                                              |
|                               | Female      | 15.5                                            | 38.7                                    | 12,067                            | 38.1                                                       | 1,874                                                      | 15.3                                                                        | 4,674                                              |
| <b>Region</b>                 | Quetta      | 10.1                                            | 54.6                                    | 5,932                             | 57.7                                                       | 599                                                        | 10.7                                                                        | 3,237                                              |
|                               | Kalat       | 25.0                                            | 36.0                                    | 5,890                             | 41.2                                                       | 1,475                                                      | 28.6                                                                        | 2,121                                              |
|                               | Sibi        | 25.9                                            | 44.9                                    | 2,757                             | 59.0                                                       | 713                                                        | 33.9                                                                        | 1,239                                              |
|                               | Zhob        | 18.2                                            | 28.8                                    | 4,168                             | 34.1                                                       | 760                                                        | 21.5                                                                        | 1,201                                              |
|                               | Nasirabad   | 13.7                                            | 35.5                                    | 4,423                             | 37.9                                                       | 607                                                        | 14.6                                                                        | 1,570                                              |
|                               | Makran      | 13.5                                            | 74.3                                    | 3,602                             | 64.0                                                       | 485                                                        | 11.6                                                                        | 2,675                                              |
| <b>Area</b>                   | Urban       | 11.8                                            | 61.8                                    | 5,717                             | 65.0                                                       | 676                                                        | 12.4                                                                        | 3,534                                              |
|                               | Rural       | 18.8                                            | 40.4                                    | 21,055                            | 43.8                                                       | 3,962                                                      | 20.4                                                                        | 8,509                                              |
| <b>Age</b>                    | 5-11 years  | 18.8                                            | 43.1                                    | 19,111                            | 46.7                                                       | 3,594                                                      | 20.4                                                                        | 8,229                                              |
|                               | 12-14 years | 13.6                                            | 49.8                                    | 7,661                             | 47.2                                                       | 1,044                                                      | 12.9                                                                        | 3,814                                              |
| <b>Mother's education</b>     | None        | 18.1                                            | 41.9                                    | 24,355                            | 45.0                                                       | 4,415                                                      | 19.5                                                                        | 10,220                                             |
|                               | Primary     | 10.6                                            | 67.0                                    | 727                               | 80.7                                                       | 77                                                         | 12.8                                                                        | 487                                                |
|                               | Middle      | 13.2                                            | 77.7                                    | 327                               | (85.9)                                                     | 43                                                         | 14.6                                                                        | 254                                                |
|                               | Matric      | 9.7                                             | 80.9                                    | 763                               | 83.8                                                       | 74                                                         | 10.1                                                                        | 617                                                |
|                               | Higher      | 4.0                                             | 81.5                                    | 570                               | (*)                                                        | 23                                                         | 4.0                                                                         | 465                                                |
| <b>Wealth index quintiles</b> | Poorest     | 25.1                                            | 22.0                                    | 5,533                             | 24.6                                                       | 1,391                                                      | 28.2                                                                        | 1,215                                              |
|                               | Second      | 19.8                                            | 36.9                                    | 5,560                             | 45.0                                                       | 1,100                                                      | 24.1                                                                        | 2,053                                              |
|                               | Middle      | 17.8                                            | 46.7                                    | 5,498                             | 55.2                                                       | 976                                                        | 21.0                                                                        | 2,569                                              |
|                               | Fourth      | 14.1                                            | 53.1                                    | 5,382                             | 63.7                                                       | 760                                                        | 16.9                                                                        | 2,859                                              |
|                               | Richest     | 8.6                                             | 69.8                                    | 4,799                             | 76.1                                                       | 412                                                        | 9.4                                                                         | 3,347                                              |
| <b>Total</b>                  |             | 17.3                                            | 45.0                                    | 26,771                            | 46.8                                                       | 4,638                                                      | 18.0                                                                        | 12,043                                             |

Note 1: Figures shown in parenthesis are based on denominators of 25-49 un-weighted cases

Note 2: Figures denoted by an asterisk (\*) are based on denominators of 24 un-weighted cases and less

Note 3: 3 missing cases on sex; 15 cases with preschool and 22 cases with madrassa level of education are not shown

[1] MICS indicator 8.3

[2] MICS indicator 8.4

## 11.5 Early marriage

196. Marriage before the age of 18 is a reality for many young girls. According to UNICEF's worldwide estimates, over 60 million women aged 20-24 were married or in union before the age of 18. Factors that influence child marriage rates include: the state of the country's civil registration system, which provides proof of age for children; the existence of an adequate legislative framework with an accompanying enforcement mechanism to address cases of child marriage; and the existence of customary or religious laws that condone the practice.

197. In many parts of the world parents encourage the marriage of their daughters while they are still child in the hope that the marriage will benefit them both financially and socially, while also relieving financial burden on the family. In actual fact, child marriage is a violation of human rights, compromising the development of girls and often resulting in early pregnancy and social isolation, with little education and poor vocational training reinforcing the gendered nature of poverty. The right to 'free and full' consent to a marriage is recognized in the Universal Declaration of Human Rights - with the recognition that consent cannot be 'free and full' when one of the parties involved is not sufficiently mature to make an informed decision about a life partner. The Convention on the Elimination of all Forms of Discrimination against Women mentions the right to protection from child marriage in article 16, which states: "The betrothal and the marriage of a child shall have no legal effect, and all necessary action, including legislation, shall be taken to specify a minimum age for marriage..." While marriage is not considered directly in the Convention on the Rights of the Child, child marriage is linked to other rights - such as the right to express their views freely, the right to protection from all forms of abuse, and the right to be protected from harmful traditional practices - and is frequently addressed by the Committee on the Rights of the Child. Other international agreements related to child marriage are the Convention on Consent to Marriage, and Minimum Age for Marriage and Registration of Marriages.

198. Young married girls are a unique group, though often invisible. Required to perform heavy amounts of domestic work, under pressure to demonstrate fertility, and responsible for raising children while still children themselves, married girls and child mothers face constrained decision-making and reduced life choices. Boys are also affected by child marriage but the issue impacts girls in far larger ways and with more intensity. Where a girl lives with a man and takes on the role of caregiver for him, the assumption is often that she has become an adult woman, even if she has not yet reached the age of 18 years.

199. Research suggests that many factors interact to place a child at risk of marriage. Poverty, protection of girls, family honour and the provision of stability during unstable social periods are considered as significant factors in determining a girl's risk of becoming married while still a child. Women who married at younger age were more likely to believe that it is sometimes acceptable for a husband to beat his wife and were more likely to experience domestic violence themselves. The age gap between partners is thought to contribute to these abusive power dynamics and to increase the risk of untimely widowhood.

200. Closely related to the issue of child marriage is the age at which girls become sexually active. Women who are married before the age of 18 tend to have more children than those who marry later in life. Pregnancy related deaths are known to be a leading cause of



mortality for married girls between the ages of 15 to 19, particularly among the youngest of this cohort.

201. Two of the indicators are to estimate the percentage of women married before 15 years of age and percentage married before 18 years of age, and statistics are provided in Table CP.4. The early marriage trend among married women in the reproductive age of 15-49 years by various age groups is provided in Table CP.5.

202. As seen from table CP.4, given below, the trend in early girls' marriage is quite common in Balochistan province. About 6.7 percent girls were married before reaching the 15<sup>th</sup> birthday and a little over 1/3<sup>rd</sup> (34.6%) before 18<sup>th</sup> birthday, while 6.9 percent in the age group 15-19 years are currently married. The early marriage trend is relatively more common in rural areas and in uneducated girls. The early marriage trend is not likely to be influenced by wealth quintiles of the households, and regions except in Quetta region – a more urban based population and with more access to communication resources.

203. As seen from table CP.5, given below, the trend of early age marriage of girls is slowly falling in the last 25-30 years. For example, in the current cohort of girls in 15-19 years age group, only 1.4 percent girls were married before the 15<sup>th</sup> birthday; while in the age cohort of 40-44 years, 9.2 percent got married before the age of 15 and 41 percent before reaching the age of 18 years.

**Table CP.4: Early marriage**  
**Percentage of women age 15-49 years who first married before their 15th birthday, percentages of women age 20-49 years who first married before their 15th and 18th birthdays, percentage of women age 15-19 years currently married, and the percentage of women currently married, Balochistan Province, Pakistan, 2010**

|                               |           | Percentage married before age 15 [1] | Number of women age 15-49 years | Percentage married before age 15 | Percentage married before age 18 [2] | Number of women age 20-49 years | Percentage of women 15-19 years currently married [3] | Number of women age 15-19 years |
|-------------------------------|-----------|--------------------------------------|---------------------------------|----------------------------------|--------------------------------------|---------------------------------|-------------------------------------------------------|---------------------------------|
| <b>Region</b>                 | Quetta    | 4.3                                  | 4,852                           | 5.7                              | 24.0                                 | 3,495                           | 4.3                                                   | 1,357                           |
|                               | Kalat     | 7.7                                  | 3,848                           | 9.4                              | 35.1                                 | 3,024                           | 8.0                                                   | 824                             |
|                               | Sibi      | 7.3                                  | 1,236                           | 8.3                              | 58.3                                 | 1,037                           | 6.1                                                   | 199                             |
|                               | Zhob      | 4.9                                  | 2,499                           | 6.2                              | 34.6                                 | 1,950                           | 6.7                                                   | 550                             |
|                               | Nasirabad | 7.7                                  | 3,164                           | 9.4                              | 41.3                                 | 2,349                           | 11.4                                                  | 815                             |
|                               | Makran    | 10.4                                 | 2,132                           | 13.2                             | 32.0                                 | 1,627                           | 5.3                                                   | 505                             |
| <b>Area</b>                   | Urban     | 6.1                                  | 4,414                           | 7.8                              | 29.0                                 | 3,279                           | 5.5                                                   | 1,135                           |
|                               | Rural     | 6.9                                  | 13,318                          | 8.5                              | 36.4                                 | 10,203                          | 7.4                                                   | 3,115                           |
| <b>Age</b>                    | 15-19     | 1.4                                  | 4,250                           | .                                | .                                    | 0                               | 6.9                                                   | 4,250                           |
|                               | 20-24     | 4.7                                  | 2,972                           | 4.7                              | 17.6                                 | 2,972                           | .                                                     | 0                               |
|                               | 25-29     | 8.7                                  | 3,074                           | 8.7                              | 32.8                                 | 3,074                           | .                                                     | 0                               |
|                               | 30-34     | 10.9                                 | 2,332                           | 10.9                             | 43.0                                 | 2,332                           | .                                                     | 0                               |
|                               | 35-39     | 9.7                                  | 2,146                           | 9.7                              | 44.9                                 | 2,146                           | .                                                     | 0                               |
|                               | 40-44     | 9.2                                  | 1,580                           | 9.2                              | 41.0                                 | 1,580                           | .                                                     | 0                               |
|                               | 45-49     | 8.0                                  | 1,378                           | 8.0                              | 38.1                                 | 1,378                           | .                                                     | 0                               |
| <b>Education</b>              | None      | 8.0                                  | 13,375                          | 9.3                              | 38.7                                 | 10,936                          | 9.4                                                   | 2,464                           |
|                               | Primary   | 2.4                                  | 1,138                           | 3.8                              | 23.2                                 | 614                             | 5.0                                                   | 524                             |
|                               | Middle    | 2.3                                  | 819                             | 3.6                              | 14.9                                 | 374                             | 3.4                                                   | 445                             |
|                               | Matric    | 3.7                                  | 1,397                           | 6.6                              | 21.1                                 | 787                             | 3.0                                                   | 610                             |
|                               | Higher    | 1.5                                  | 957                             | 1.9                              | 9.2                                  | 752                             | 1.8                                                   | 205                             |
| <b>Wealth index quintiles</b> | Poorest   | 6.5                                  | 3,482                           | 8.0                              | 34.2                                 | 2,694                           | 7.8                                                   | 789                             |
|                               | Second    | 7.7                                  | 3,537                           | 9.6                              | 38.3                                 | 2,681                           | 7.6                                                   | 856                             |
|                               | Middle    | 8.3                                  | 3,378                           | 10.4                             | 39.3                                 | 2,585                           | 8.2                                                   | 794                             |
|                               | Fourth    | 5.7                                  | 3,506                           | 7.2                              | 34.6                                 | 2,650                           | 6.5                                                   | 856                             |
|                               | Richest   | 5.3                                  | 3,829                           | 6.7                              | 27.5                                 | 2,872                           | 4.8                                                   | 956                             |
| <b>Total</b>                  |           | 6.7                                  | 17,732                          | 8.3                              | 34.6                                 | 13,482                          | 6.9                                                   | 4,250                           |

Note 1: 2 case with missing "mother's education" is not shown

Note 2: 14 cases of women age 15-49; 7 cases of women 20-49; and 7 cases of women age 15-19 with preschool level education are not shown.

Note 3: 31 cases of women age 15-49; 7 cases of women age 20-49 and 7 cases of women age 15-19 with madrassa level of education are not shown.

Note 4: one case of woman age 15-49 and one woman age 15-19 with missing information on education are not shown.

Note 5: Figures shown in parenthesis are based on denominators of 25-49 un-weighted cases

Note 6: Figures denoted by an asterisk (\*) are based on denominators of 24 un-weighted cases and less

[1] MICS indicator 8.6

[2] MICS indicator 8.7

[3] MICS indicator 8.8

**Table CP.5: Trends in early marriage**  
**Percentage of women who were first married before age 15 and 18, by residence and age groups, Balochistan Province, Pakistan, 2010**

|              |       | Urban                                                     |                       |                                                       |                       | Rural                                                 |                       |                                                       |                       | All                                                   |                       |                                                       |                       |
|--------------|-------|-----------------------------------------------------------|-----------------------|-------------------------------------------------------|-----------------------|-------------------------------------------------------|-----------------------|-------------------------------------------------------|-----------------------|-------------------------------------------------------|-----------------------|-------------------------------------------------------|-----------------------|
|              |       | Percent<br>age of<br>women<br>married<br>before<br>age 15 | Number<br>of<br>women | Percentage<br>of women<br>married<br>before age<br>18 | Number<br>of<br>women | Percentage<br>of women<br>married<br>before age<br>15 | Number<br>of<br>women | Percentage<br>of women<br>married<br>before age<br>18 | Number<br>of<br>women | Percentage<br>of women<br>married<br>before age<br>15 | Number<br>of<br>women | Percentage<br>of women<br>married<br>before age<br>18 | Number<br>of<br>women |
| <b>Age</b>   | 15-19 | 1.0                                                       | 1,135                 | .                                                     | 0                     | 1.5                                                   | 3,115                 | .                                                     | 0                     | 1.4                                                   | 4,250                 | .                                                     | 0                     |
|              | 20-24 | 3.4                                                       | 854                   | 12.3                                                  | 854                   | 5.2                                                   | 2,118                 | 19.7                                                  | 2,118                 | 4.7                                                   | 2,972                 | 17.6                                                  | 2,972                 |
|              | 25-29 | 7.5                                                       | 728                   | 25.3                                                  | 728                   | 9.1                                                   | 2,346                 | 35.2                                                  | 2,346                 | 8.7                                                   | 3,074                 | 32.8                                                  | 3,074                 |
|              | 30-34 | 12.0                                                      | 536                   | 35.5                                                  | 536                   | 10.6                                                  | 1,796                 | 45.3                                                  | 1,796                 | 10.9                                                  | 2,332                 | 43.0                                                  | 2,332                 |
|              | 35-39 | 9.8                                                       | 498                   | 40.3                                                  | 498                   | 9.7                                                   | 1,648                 | 46.3                                                  | 1,648                 | 9.7                                                   | 2,146                 | 44.9                                                  | 2,146                 |
|              | 40-44 | 8.5                                                       | 354                   | 40.2                                                  | 354                   | 9.3                                                   | 1,226                 | 41.3                                                  | 1,226                 | 9.2                                                   | 1,580                 | 41.0                                                  | 1,580                 |
|              | 45-49 | 9.9                                                       | 309                   | 42.2                                                  | 309                   | 7.4                                                   | 1,070                 | 36.9                                                  | 1,070                 | 8.0                                                   | 1,378                 | 38.1                                                  | 1,378                 |
| <b>Total</b> |       | 6.1                                                       | 4,414                 | 29.0                                                  | 3,279                 | 6.9                                                   | 13,318                | 36.4                                                  | 10,203                | 6.7                                                   | 17,732                | 34.6                                                  | 13,482                |

## **11.6 Domestic violence**

204. A number of questions were asked of women age 15-49 years to assess their attitudes towards whether husbands are justified to hit or beat their wives for a variety of scenarios. These questions were asked to get an indication of cultural beliefs that tend to be associated with the prevalence of violence against women by their husbands. The main assumption here is that women that agree with the statements indicating that husbands are justified to beat their wives under the situations described in reality tend to be abused by their own husbands. The responses to these questions can be found in Table CP.6

205. Four out of ten (42 percent) women in Balochistan feel that a husband has a right to beat his wife if they go out without telling or if they argue (39 percent); over one-fourth (28 percent) feel that a husband has a right to beat his wife if she neglects children; and nearly one in five (21 percent) felt that a husband has the right to beat a wife if she refuses sex or burns food (22 percent). Overall, 62 percent women feel that a husband has the right to beat his wife for any of these reasons. Differences were visible across regions, age group, education and residence. However, majority of women irrespective of their background felt that a husband is justified to beat his wife for one or other of these reasons.

## **11.7 Orphans and vulnerable children**

206. Children who are orphaned or in vulnerable households may be at increased risk of neglect or exploitation if the parents are not available to assist them. Monitoring the variations in different outcomes for orphans and vulnerable children and comparing them to their peers gives us a measure of how well communities and governments are responding to their needs.

207. To monitor these variations, a measurable definition of orphaned and vulnerable children needed to be created. The UNAIDS Monitoring and Evaluation Reference Group developed proxy definition of children who have been affected by adult morbidity and mortality. This definition classifies children as orphaned and vulnerable if they have experienced the death of either parent, if either parent is chronically ill, or if an adult (aged 18-59) in the household either died (after being chronically ill) or was chronically ill in the year prior to the survey.

208. Table CP.7 presents the percent distribution of children 0-17 years of age by their living arrangements, and percentage of children age 0-17 years in households not living with a biological parent and percentage of children who have one or both parent dead. Out of 43,808 children of 0-17 years old, nearly 96 percent children in Balochistan were living with both of their parents while 3.5 percent children were those whose one or both parents were dead and one percent was not living with their biological parents. The highest proportion of children age 0-17 years living with both of their parents was noted in Sibi region (98 percent). It was also noted that the proportion of children living with both of their parents declines with the age of child.

**Table CP.6: Attitudes toward domestic violence**  
**Percentage of women aged 15-49 years who believe a husband is justified in beating his wife in various circumstances,**  
**Balochistan Province, Pakistan, 2010**

|                               |                   | Percentage of women aged 15-49 years who believe a husband is justified in beating his wife: |                                |                          |                               |                         |                              | Number of women aged 15-49 years |
|-------------------------------|-------------------|----------------------------------------------------------------------------------------------|--------------------------------|--------------------------|-------------------------------|-------------------------|------------------------------|----------------------------------|
|                               |                   | When she goes out without telling him                                                        | When she neglects the children | When she argues with him | When she refuses sex with him | When she burns the food | For any of these reasons*[1] |                                  |
| <b>Region</b>                 | Quetta            | 44.3                                                                                         | 20.3                           | 41.7                     | 18.2                          | 16.8                    | 56.8                         | 4,852                            |
|                               | Kalat             | 34.3                                                                                         | 31.5                           | 37.4                     | 19.3                          | 23.4                    | 55.2                         | 3,848                            |
|                               | Sibi              | 71.4                                                                                         | 27.9                           | 30.3                     | 16.9                          | 18.8                    | 81.4                         | 1,236                            |
|                               | Zhob              | 32.2                                                                                         | 19.5                           | 29.7                     | 12.6                          | 14.2                    | 45.3                         | 2,499                            |
|                               | Nasirabad         | 44.3                                                                                         | 34.0                           | 39.9                     | 25.3                          | 26.9                    | 68.1                         | 3,164                            |
|                               | Makran            | 46.3                                                                                         | 43.8                           | 50.6                     | 36.5                          | 38.0                    | 81.4                         | 2,132                            |
| <b>Area</b>                   | Urban             | 36.4                                                                                         | 25.9                           | 36.2                     | 19.2                          | 19.9                    | 54.5                         | 4,414                            |
|                               | Rural             | 44.6                                                                                         | 29.3                           | 40.0                     | 21.7                          | 23.2                    | 63.8                         | 13,318                           |
| <b>Age</b>                    | 15-19             | 36.7                                                                                         | 21.8                           | 32.5                     | 9.9                           | 18.6                    | 53.1                         | 4,250                            |
|                               | 20-24             | 40.9                                                                                         | 27.0                           | 39.3                     | 16.0                          | 20.0                    | 58.3                         | 2,972                            |
|                               | 25-29             | 43.6                                                                                         | 29.6                           | 42.0                     | 24.4                          | 22.9                    | 63.7                         | 3,074                            |
|                               | 30-34             | 47.9                                                                                         | 32.0                           | 41.9                     | 27.6                          | 23.3                    | 68.4                         | 2,332                            |
|                               | 35-39             | 45.2                                                                                         | 32.1                           | 38.4                     | 25.0                          | 23.0                    | 64.7                         | 2,146                            |
|                               | 40-44             | 46.6                                                                                         | 32.0                           | 42.0                     | 28.9                          | 29.2                    | 66.8                         | 1,580                            |
|                               | 45-49             | 43.9                                                                                         | 33.8                           | 44.7                     | 32.6                          | 27.3                    | 67.0                         | 1,378                            |
| <b>Marital status</b>         | Currently married | 46.1                                                                                         | 32.6                           | 43.1                     | 27.8                          | 24.9                    | 66.6                         | 11,260                           |
|                               | Formerly married  | 39.5                                                                                         | 24.3                           | 28.5                     | 18.8                          | 23.0                    | 56.3                         | 120                              |
|                               | Never married     | 36.2                                                                                         | 21.2                           | 32.1                     | 9.0                           | 17.9                    | 52.6                         | 6,351                            |
| <b>Education</b>              | None              | 43.5                                                                                         | 29.4                           | 39.7                     | 22.3                          | 23.0                    | 62.5                         | 14,376                           |
|                               | Primary           | 40.5                                                                                         | 21.6                           | 38.9                     | 13.7                          | 15.2                    | 58.1                         | 1,138                            |
|                               | Secondary +       | 37.0                                                                                         | 25.7                           | 34.7                     | 16.4                          | 21.8                    | 56.9                         | 2,216                            |
| <b>Wealth index quintiles</b> | Poorest           | 39.1                                                                                         | 32.7                           | 39.5                     | 24.0                          | 25.4                    | 58.2                         | 3,482                            |
|                               | Second            | 42.5                                                                                         | 31.3                           | 41.8                     | 22.9                          | 25.5                    | 63.2                         | 3,537                            |
|                               | Middle            | 46.0                                                                                         | 28.9                           | 39.5                     | 19.8                          | 25.4                    | 67.1                         | 3,378                            |
|                               | Fourth            | 46.9                                                                                         | 27.7                           | 40.6                     | 20.4                          | 21.2                    | 66.1                         | 3,506                            |
|                               | Richest           | 38.6                                                                                         | 22.3                           | 34.2                     | 18.4                          | 15.1                    | 53.8                         | 3,829                            |
|                               | Total             | 42.5                                                                                         | 28.4                           | 39.0                     | 21.0                          | 22.3                    | 61.5                         | 17,732                           |

Note: 2 case with missing "education"; 16 cases with preschool and 33 cases with madrassa education are not shown  
 [1] MICS indicator 8.14

**Table CP.7: Children's living arrangements and orphaned**

**Percent distribution of children age 0-17 years according to living arrangements, percentage of children age 0-17 years in households not living with a biological parent and percentage of children who have one or both parents dead, Balochistan Province, Pakistan, 2010**

|               |                               | Living with neither parent |                   |                   |                |               | Living with mother only |             | Living with father only |             | Impossible to determine | Total | Not living with a biological parent [1] | One or both parents dead [2] | Number of children age 0-17 years |
|---------------|-------------------------------|----------------------------|-------------------|-------------------|----------------|---------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------|-----------------------------------------|------------------------------|-----------------------------------|
|               |                               | Living with both parents   | Only father alive | Only mother alive | Both are alive | Both are dead | Father alive            | Father dead | Mother alive            | Mother dead |                         |       |                                         |                              |                                   |
| <b>Sex</b>    | Male                          | 95.8                       | 0.0               | 0.0               | 0.2            | 0.6           | 0.4                     | 1.9         | 0.0                     | 0.8         | 0.3                     | 100   | 0.8                                     | 3.3                          | 24,123                            |
|               | Female                        | 95.2                       | 0.1               | 0.0               | 0.2            | 0.9           | 0.4                     | 2.0         | 0.0                     | 0.8         | 0.4                     | 100   | 1.2                                     | 3.8                          | 19,677                            |
| <b>Region</b> | Quetta                        | 95.1                       | 0.1               | 0.0               | 0.1            | 0.5           | 0.5                     | 2.3         | 0.0                     | 1.0         | 0.3                     | 100   | 0.8                                     | 3.9                          | 10,458                            |
|               | Kalat                         | 95.6                       | 0.0               | 0.0               | 0.0            | 0.7           | 0.1                     | 1.6         | 0.0                     | 1.3         | 0.5                     | 100   | 0.8                                     | 3.7                          | 9,480                             |
|               | Sibi                          | 97.6                       | 0.0               | 0.0               | 0.1            | 0.5           | 0.0                     | 1.0         | 0.0                     | 0.6         | 0.3                     | 100   | 0.6                                     | 2.0                          | 4,118                             |
|               | Zhob                          | 96.1                       | 0.0               | 0.0               | 0.3            | 0.7           | 0.1                     | 1.8         | 0.0                     | 0.8         | 0.2                     | 100   | 1.0                                     | 3.3                          | 6,832                             |
|               | Nasirabad                     | 93.8                       | 0.0               | 0.0               | 0.2            | 1.4           | 0.1                     | 3.3         | 0.0                     | 0.5         | 0.7                     | 100   | 1.7                                     | 5.3                          | 7,343                             |
|               | Makran                        | 96.3                       | 0.3               | 0.0               | 0.5            | 0.5           | 1.7                     | 0.6         | 0.0                     | 0.2         | 0.1                     | 100   | 1.2                                     | 1.5                          | 5,577                             |
|               | Urban                         | 95.0                       | 0.1               | 0.0               | 0.3            | 0.6           | 0.4                     | 2.6         | 0.0                     | 0.7         | 0.4                     | 100   | 1.0                                     | 3.9                          | 9,497                             |
| <b>Area</b>   | Rural                         | 95.7                       | 0.1               | 0.0               | 0.1            | 0.8           | 0.4                     | 1.7         | 0.0                     | 0.8         | 0.4                     | 100   | 1.0                                     | 3.4                          | 34,310                            |
|               | 0-4 years                     | 98.1                       | 0.1               | 0.0               | 0.0            | 0.2           | 0.5                     | 0.7         | 0.0                     | 0.2         | 0.1                     | 100   | 0.3                                     | 1.2                          | 10,618                            |
| <b>Age</b>    | 5-9 years                     | 97.2                       | 0.1               | 0.0               | 0.1            | 0.2           | 0.4                     | 1.2         | 0.0                     | 0.6         | 0.2                     | 100   | 0.5                                     | 2.1                          | 14,103                            |
|               | 10-14 years                   | 95.4                       | 0.0               | 0.0               | 0.2            | 0.7           | 0.4                     | 2.1         | 0.0                     | 1.0         | 0.1                     | 100   | 1.0                                     | 3.9                          | 12,668                            |
|               | 15-17 years                   | 88.0                       | 0.0               | 0.0               | 0.5            | 2.7           | 0.3                     | 5.0         | 0.0                     | 1.8         | 1.6                     | 100   | 3.3                                     | 9.6                          | 6,419                             |
|               | <b>Wealth index quintiles</b> | Poorest                    | 95.2              | 0.2               | 0.0            | 0.1           | 0.8                     | 0.3         | 1.7                     | 0.0         | 1.4                     | 0.3   | 100                                     | 1.1                          | 4.1                               |
| Second        | 94.7                          | 0.0                        | 0.0               | 0.1               | 1.1            | 0.3           | 2.5                     | 0.0         | 0.7                     | 0.5         | 100                     | 1.2   | 4.3                                     | 8,966                        |                                   |
| Middle        | 96.3                          | 0.0                        | 0.0               | 0.2               | 0.9            | 0.3           | 1.2                     | 0.0         | 0.7                     | 0.4         | 100                     | 1.1   | 2.8                                     | 9,045                        |                                   |
| Fourth        | 96.9                          | 0.0                        | 0.0               | 0.1               | 0.3            | 0.5           | 1.4                     | 0.0         | 0.4                     | 0.3         | 100                     | 0.4   | 2.2                                     | 8,700                        |                                   |
| Richest       | 94.5                          | 0.1                        | 0.0               | 0.4               | 0.6            | 0.6           | 2.8                     | 0.0         | 0.8                     | 0.3         | 100                     | 1.1   | 4.3                                     | 8,087                        |                                   |
| <b>Total</b>  |                               | 95.5                       | 0.1               | 0.0               | 0.2            | 0.7           | 0.4                     | 1.9         | 0.0                     | 0.8         | 0.4                     | 100   | 1.0                                     | 3.5                          | 43,808                            |

Note: 8 number of children with missing "sex" are not shown

[1] MICS indicator 9.17

[2] MICS indicator 9.18

# XII Knowledge of HIV/AIDS

## 12.1 Knowledge of HIV Transmission

209. One of the most important prerequisites for reducing the rate of HIV infection is accurate knowledge of how HIV is transmitted and strategies for preventing transmission. Correct information is the first step toward raising awareness. Misconceptions about HIV are common and can confuse young people and hinder prevention efforts. Different regions are likely to have variations in misconceptions although some appear to be universal (for example that sharing food can transmit HIV or mosquito bites can transmit HIV). The UN General Assembly Special Session on HIV/AIDS (UNGASS) called on governments to improve the knowledge and skills of young people to protect themselves from HIV. The indicators to measure this goal as well as the MDG of reducing HIV infections by half include improving the level of knowledge of HIV and its prevention, and changing behaviours to prevent further spread of the disease. The HIV module was administered to women 15-49 years of age. However, two questions<sup>11</sup> from the standard MICS questionnaire were excluded due to perceived cultural sensitivities; hence two indicators related to comprehensive knowledge of respondents about HIV/AIDS could not be measured.

210. Table HA.1 is a summary of knowledge about HIV transmission among respondent women in the age group 15-49 years. A little over 1/6<sup>th</sup> respondent had heard of AIDS. Their knowledge that 'a healthy looking person can have the HIV virus' was limited to 8.9 percent respondents. Further, respondents in the range of 12 -14 percent confirmed that HIV/AIDS can't be transmitted by ways like mosquito bite, supernatural means or sharing food with HIV infected person. Only 5 percent respondents rejected two common misconceptions about HIV transmission and knew that a healthy looking person can have AIDS virus. MICS survey results show a major knowledge gap in women of reproductive age on HIV, its transmission and to shun misconceptions about its spread.

211. Table HA.1 further describes knowledge of respondents linked with different variables like age group, area of residence, marital status, educational level and wealth quintile. The correct knowledge under different variables was also found low except that respondents from urban areas, Sibi region, and richest wealth quintile were better equipped with correct knowledge. Respondent women with matric and higher education were found much better equipped with correct knowledge about HIV.

212. As seen from table HA.2, nearly 1/5<sup>th</sup> of young women interviewed in the age group 15-24 years have heard of AIDS. Their knowledge that 'a healthy looking person can have the HIV virus' was even further limited as only one out of every 10 respondents gave the correct answer. Further, only few respondents (in the range of 15 to 17 percent) confirmed that HIV/AIDS can't be transmitted by mosquito bite, supernatural means or sharing food

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<sup>11</sup> HA2. Can people reduce their chance of getting the AIDS virus by having just one uninfected sex partner who has no other sex partners?

HA4. Can people reduce their chance of getting the AIDS virus by using a condom every time they have sex?

with HIV infected person. From cohort of young women 15-24 years old, only 6.3 percent rejected two common misconceptions and knew that a healthy looking person can have AIDS virus. Finally, a major knowledge gap in young women was observed that requires mounting a context specific behaviour change communication campaign.

213. Table HA.2 also provides information on knowledge level of respondents with reference to their age group, area of residence, marital status, educational level and wealth quintile; however, correct answers under different variables were so awfully low except that respondents from urban areas, Makran region, and richest wealth quintile were better equipped with correct knowledge. Respondent women with matric and higher level education were found much better equipped with correct knowledge about HIV.



**Table HA.1: Knowledge and misconceptions about HIV/AIDS**  
**Percentage of women age 15-49 years who know that a healthy looking person can have the AIDS virus, and percentage who reject common misconceptions**  
**Balochistan Province, Pakistan, 2010**

|                               |               | Percentage who have heard of AIDS | Percentage who know transmission can be prevented by:                     | Percentage who know that HIV cannot be transmitted by: |                    |                                     | Percentage who reject the two most common misconceptions and know that a healthy looking person can have the AIDS virus | Number of women |
|-------------------------------|---------------|-----------------------------------|---------------------------------------------------------------------------|--------------------------------------------------------|--------------------|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-----------------|
|                               |               |                                   | Percentage who know that a healthy looking person can have the AIDS virus | Mosquito bites                                         | Supernatural means | Sharing food with someone with AIDS |                                                                                                                         |                 |
| <b>Region</b>                 | Quetta        | 18.7                              | 11.4                                                                      | 14.2                                                   | 15.9               | 14.9                                | 8.3                                                                                                                     | 4,852           |
|                               | Kalat         | 13.0                              | 5.7                                                                       | 10.0                                                   | 11.0               | 8.7                                 | 2.6                                                                                                                     | 3,848           |
|                               | Sibi          | 22.2                              | 15.7                                                                      | 14.0                                                   | 18.8               | 8.9                                 | 4.2                                                                                                                     | 1,236           |
|                               | Zhob          | 7.4                               | 4.2                                                                       | 4.3                                                    | 4.7                | 4.0                                 | 2.3                                                                                                                     | 2,499           |
|                               | Nasirabad     | 18.2                              | 9.9                                                                       | 10.8                                                   | 13.8               | 11.0                                | 4.8                                                                                                                     | 3,164           |
| <b>Area</b>                   | Makran        | 29.6                              | 9.0                                                                       | 25.1                                                   | 23.8               | 23.8                                | 5.7                                                                                                                     | 2,132           |
|                               | Urban         | 34.5                              | 19.2                                                                      | 26.1                                                   | 28.3               | 25.6                                | 12.3                                                                                                                    | 4,414           |
| <b>Age</b>                    | Rural         | 11.7                              | 5.4                                                                       | 8.1                                                    | 9.3                | 7.5                                 | 2.6                                                                                                                     | 13,318          |
|                               | 15-24         | 21.0                              | 10.7                                                                      | 15.4                                                   | 17.1               | 14.9                                | 6.3                                                                                                                     | 7,222           |
|                               | 25-29         | 19.4                              | 9.9                                                                       | 13.4                                                   | 15.7               | 13.2                                | 5.0                                                                                                                     | 3,074           |
|                               | 30-39         | 15.3                              | 8.2                                                                       | 11.6                                                   | 12.4               | 10.2                                | 4.7                                                                                                                     | 4,478           |
| <b>Marital status</b>         | 40-49         | 9.6                               | 4.4                                                                       | 6.4                                                    | 7.4                | 6.3                                 | 2.2                                                                                                                     | 2,958           |
|                               | Ever married  | 14.2                              | 7.4                                                                       | 9.9                                                    | 11.2               | 9.3                                 | 3.9                                                                                                                     | 11,381          |
| <b>Education</b>              | Never married | 23.1                              | 11.6                                                                      | 17.5                                                   | 19.2               | 16.8                                | 7.0                                                                                                                     | 6,351           |
|                               | None          | 6.5                               | 3.3                                                                       | 3.9                                                    | 4.8                | 3.2                                 | 1.1                                                                                                                     | 13,375          |
|                               | Preschool     | (*)                               | (*)                                                                       | (*)                                                    | (*)                | (*)                                 | (*)                                                                                                                     | 14              |
|                               | Primary       | 22.0                              | 11.6                                                                      | 14.5                                                   | 18.5               | 12.7                                | 5.3                                                                                                                     | 1,138           |
|                               | Middle        | 39.0                              | 17.9                                                                      | 28.1                                                   | 31.4               | 27.5                                | 10.4                                                                                                                    | 819             |
|                               | Matric        | 62.0                              | 30.6                                                                      | 48.3                                                   | 49.9               | 48.3                                | 20.4                                                                                                                    | 1,397           |
|                               | Higher        | 80.7                              | 44.0                                                                      | 66.9                                                   | 70.6               | 67.3                                | 31.7                                                                                                                    | 957             |
| Madrassa                      | (4.4)         | (3.4)                             | (2.5)                                                                     | (4.4)                                                  | (2.9)              | 0.0                                 | 31                                                                                                                      |                 |
| <b>Wealth index quintiles</b> | Poorest       | 2.8                               | 0.9                                                                       | 2.1                                                    | 2.1                | 1.7                                 | 0.5                                                                                                                     | 3,482           |
|                               | Second        | 7.9                               | 3.0                                                                       | 5.4                                                    | 6.4                | 4.7                                 | 1.0                                                                                                                     | 3,537           |
|                               | Middle        | 12.3                              | 5.9                                                                       | 8.6                                                    | 9.7                | 7.1                                 | 2.2                                                                                                                     | 3,378           |
|                               | Fourth        | 20.8                              | 10.6                                                                      | 14.6                                                   | 16.4               | 13.6                                | 5.6                                                                                                                     | 3,506           |
|                               | Richest       | 40.7                              | 22.6                                                                      | 30.4                                                   | 33.6               | 30.9                                | 14.7                                                                                                                    | 3,829           |
| <b>Total</b>                  |               | 17.4                              | 8.9                                                                       | 12.6                                                   | 14.0               | 12.0                                | 5.0                                                                                                                     | 17,732          |

Note 1: 2 cases with missing "education of woman"; 16 cases of preschool and 33 cases of women with madrassa level of education are not shown

Note 2: Figures shown in parenthesis are based on denominators of 25-49 un-weighted cases

Note 3: Figures marked by an asterisk (\*) are based on denominators of 24 un-weighted cases and less

**Table HA.2: Knowledge and misconceptions about HIV/AIDS among young people**  
**Percentage of young women age 15-24 years who know that a healthy looking person can have the AIDS virus, percentage who reject common misconceptions,**  
**Balochistan Province, Pakistan, 2010**

|                               |               | Percentage who know transmission can be prevented by: |                                                                           | Percentage who know that HIV cannot be transmitted by: |                    |                                     | Percentage who reject the two most common misconceptions and know that a healthy looking person can have the AIDS virus | Number of women age 15-24 |
|-------------------------------|---------------|-------------------------------------------------------|---------------------------------------------------------------------------|--------------------------------------------------------|--------------------|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------|---------------------------|
|                               |               | Percentage who have heard of AIDS                     | Percentage who know that a healthy looking person can have the AIDS virus | Mosquito bites                                         | Supernatural means | Sharing food with someone with AIDS |                                                                                                                         |                           |
| <b>Region</b>                 | Quetta        | 20.0                                                  | 11.5                                                                      | 14.8                                                   | 17.2               | 15.7                                | 7.9                                                                                                                     | 2,287                     |
|                               | Kalat         | 17.1                                                  | 7.3                                                                       | 12.6                                                   | 14.0               | 11.0                                | 3.4                                                                                                                     | 1,469                     |
|                               | Sibi          | 24.3                                                  | 16.4                                                                      | 13.7                                                   | 20.2               | 10.1                                | 3.5                                                                                                                     | 336                       |
|                               | Zhob          | 10.4                                                  | 6.3                                                                       | 6.8                                                    | 7.4                | 6.1                                 | 3.7                                                                                                                     | 962                       |
|                               | Nasirabad     | 22.0                                                  | 12.7                                                                      | 14.6                                                   | 17.9               | 14.5                                | 7.1                                                                                                                     | 1,369                     |
|                               | Makran        | 40.6                                                  | 14.1                                                                      | 34.4                                                   | 31.7               | 32.8                                | 10.1                                                                                                                    | 798                       |
| <b>Area</b>                   | Urban         | 38.3                                                  | 20.2                                                                      | 28.9                                                   | 31.8               | 29.0                                | 12.7                                                                                                                    | 1,989                     |
|                               | Rural         | 14.4                                                  | 7.1                                                                       | 10.2                                                   | 11.5               | 9.5                                 | 3.9                                                                                                                     | 5,233                     |
| <b>Age</b>                    | 15-19         | 19.6                                                  | 9.7                                                                       | 14.5                                                   | 15.8               | 13.5                                | 5.3                                                                                                                     | 4,250                     |
|                               | 20-24         | 22.9                                                  | 12.2                                                                      | 16.7                                                   | 19.0               | 16.8                                | 7.7                                                                                                                     | 2,972                     |
| <b>Marital status</b>         | Ever married  | 17.7                                                  | 9.3                                                                       | 12.0                                                   | 14.0               | 12.1                                | 5.4                                                                                                                     | 1,601                     |
|                               | Never married | 21.9                                                  | 11.1                                                                      | 16.3                                                   | 18.0               | 15.6                                | 6.6                                                                                                                     | 5,620                     |
| <b>Education</b>              | None          | 4.8                                                   | 2.2                                                                       | 2.6                                                    | 3.4                | 2.4                                 | 0.7                                                                                                                     | 4,380                     |
|                               | Primary       | 20.5                                                  | 10.5                                                                      | 14.1                                                   | 17.1               | 10.4                                | 4.5                                                                                                                     | 751                       |
|                               | Middle        | 34.5                                                  | 17.5                                                                      | 24.6                                                   | 27.4               | 23.5                                | 9.2                                                                                                                     | 617                       |
|                               | Matric        | 58.1                                                  | 29.9                                                                      | 46.2                                                   | 48.0               | 45.5                                | 20.4                                                                                                                    | 937                       |
|                               | Higher        | 77.1                                                  | 41.3                                                                      | 61.2                                                   | 67.2               | 63.6                                | 28.7                                                                                                                    | 503                       |
| <b>Wealth index quintiles</b> | Poorest       | 3.8                                                   | 1.4                                                                       | 3.0                                                    | 3.1                | 2.3                                 | 1.1                                                                                                                     | 1,301                     |
|                               | Second        | 10.7                                                  | 4.6                                                                       | 7.0                                                    | 8.3                | 6.3                                 | 2.0                                                                                                                     | 1,430                     |
|                               | Middle        | 13.7                                                  | 6.6                                                                       | 9.8                                                    | 10.7               | 7.6                                 | 2.4                                                                                                                     | 1,320                     |
|                               | Fourth        | 25.3                                                  | 13.5                                                                      | 19.0                                                   | 20.1               | 18.1                                | 8.6                                                                                                                     | 1,455                     |
|                               | Richest       | 44.6                                                  | 23.5                                                                      | 32.9                                                   | 37.5               | 34.4                                | 14.9                                                                                                                    | 1,715                     |
| <b>Total</b>                  |               | 21.0                                                  | 10.7                                                                      | 15.4                                                   | 17.1               | 14.9                                | 6.3                                                                                                                     | 7,222                     |

Note 1: 1 case with missing "education of woman" is not shown

Note 2: 10 cases with pre-school education are not shown

Note 3: 22 cases with Madrassa education are not shown

214. Knowledge of mother-to-child transmission of HIV is also an important first step for women to seek HIV testing when they are pregnant to avoid infection in the baby. Women should know that HIV can be transmitted during pregnancy, delivery, and through breastfeeding. The level of knowledge among women age 15-49 years concerning mother-to-child transmission is presented in Table HA.3. Overall, 10.5 percent respondent women knew that HIV could be transmitted from mother to child. The percentage of women who knew all three ways of mother-to-child transmission was 4.1 percent, while 6.9 percent of women did not know any specific way.

215. Table HA.3 also provides information on mother-to-child transmission with reference to a number of variables of respondent women. Respondents from urban areas were far more knowledgeable on the routes of mother-to-child transmission; for example, 20 percent identified transmission of HIV virus during pregnancy, 15.8 percent during delivery, 15.4 percent by breastfeeding and 11.1 percent mentioned all three means. Respondents having matric or higher education were the most informed group of women on 'how mother-to-child transmission' takes place followed by those who were in richest wealth quintile. Women from Quetta region were better informed on the routes of mother-to-child transmission than those from other five regions of Balochistan and so was the case with respondents in the age group 20-24 years. Respondents interviewed from poorest wealth quintile had least knowledge about the routes of HIV transmission from mother-to- child.

**Table HA.3: Knowledge of mother-to-child HIV transmission**  
**Percentage of women age 15-49 years who correctly identify means of HIV transmission from mother to child,**  
**Balochistan Province, Pakistan, 2010**

|                               |               | Percentage who know HIV can be transmitted from mother to child | Percent who know HIV can be transmitted: |                 |                  |                     | Does not know any of the specific means | Number of women |
|-------------------------------|---------------|-----------------------------------------------------------------|------------------------------------------|-----------------|------------------|---------------------|-----------------------------------------|-----------------|
|                               |               |                                                                 | During pregnancy                         | During delivery | By breastfeeding | All three means [1] |                                         |                 |
| <b>Region</b>                 | Quetta        | 13.4                                                            | 12.3                                     | 9.8             | 9.0              | 7.4                 | 5.3                                     | 4,852           |
|                               | Kalat         | 8.3                                                             | 6.8                                      | 5.3             | 4.8              | 2.8                 | 4.7                                     | 3,848           |
|                               | Sibi          | 12.2                                                            | 3.4                                      | 3.8             | 10.3             | 1.7                 | 10.0                                    | 1,236           |
|                               | Zhob          | 2.3                                                             | 1.0                                      | 0.8             | 1.5              | 0.4                 | 5.1                                     | 2,499           |
|                               | Nasirabad     | 12.2                                                            | 8.5                                      | 8.3             | 9.8              | 6.0                 | 6.0                                     | 3,164           |
|                               | Makran        | 14.0                                                            | 7.6                                      | 6.2             | 6.0              | 1.7                 | 15.6                                    | 2,132           |
| <b>Area</b>                   | Urban         | 23.1                                                            | 20.0                                     | 15.8            | 15.4             | 11.1                | 11.4                                    | 4,414           |
|                               | Rural         | 6.3                                                             | 3.5                                      | 3.3             | 4.1              | 1.8                 | 5.3                                     | 13,318          |
| <b>Age group</b>              | 15-24         | 11.6                                                            | 8.5                                      | 7.0             | 7.5              | 4.4                 | 9.4                                     | 7,222           |
|                               | 25+           | 9.7                                                             | 7.1                                      | 6.0             | 6.5              | 3.9                 | 5.1                                     | 10,510          |
| <b>Age group</b>              | 15-19         | 9.9                                                             | 7.0                                      | 5.4             | 6.0              | 3.2                 | 9.7                                     | 4,250           |
|                               | 20-24         | 14.1                                                            | 10.6                                     | 9.3             | 9.7              | 6.1                 | 8.8                                     | 2,972           |
|                               | 25-29         | 12.0                                                            | 8.9                                      | 7.2             | 8.2              | 4.8                 | 7.4                                     | 3,074           |
|                               | 30-39         | 10.4                                                            | 7.3                                      | 6.2             | 7.1              | 4.0                 | 4.9                                     | 4,478           |
|                               | 40-49         | 6.4                                                             | 4.7                                      | 4.4             | 3.9              | 2.7                 | 3.1                                     | 2,958           |
| <b>Marital status</b>         | Ever married  | 9.4                                                             | 6.8                                      | 5.9             | 6.3              | 3.7                 | 4.8                                     | 11,381          |
|                               | Never married | 12.5                                                            | 9.1                                      | 7.4             | 8.0              | 4.7                 | 10.6                                    | 6,351           |
| <b>Education</b>              | None          | 4.3                                                             | 2.9                                      | 2.4             | 3.0              | 1.5                 | 2.2                                     | 13,375          |
|                               | Primary       | 13.5                                                            | 8.2                                      | 7.5             | 10.0             | 4.5                 | 8.5                                     | 1,138           |
|                               | Middle        | 21.8                                                            | 16.1                                     | 14.2            | 14.5             | 9.4                 | 17.2                                    | 819             |
|                               | Matric        | 35.1                                                            | 25.1                                     | 21.9            | 21.1             | 12.7                | 26.9                                    | 1,397           |
|                               | Higher        | 48.3                                                            | 41.1                                     | 31.9            | 31.6             | 22.4                | 32.4                                    | 957             |
| <b>Wealth index quintiles</b> | Poorest       | 1.5                                                             | 0.8                                      | 0.9             | 0.7              | 0.3                 | 1.3                                     | 3,482           |
|                               | Second        | 4.9                                                             | 3.0                                      | 2.4             | 2.9              | 1.3                 | 3.0                                     | 3,537           |
|                               | Middle        | 6.5                                                             | 3.8                                      | 3.1             | 3.8              | 1.5                 | 5.7                                     | 3,378           |
|                               | Fourth        | 11.5                                                            | 6.7                                      | 6.3             | 7.5              | 3.1                 | 9.3                                     | 3,506           |
|                               | Richest       | 26.5                                                            | 22.2                                     | 18.2            | 18.5             | 13.2                | 14.2                                    | 3,829           |
| <b>Total</b>                  |               | 10.5                                                            | 7.6                                      | 6.4             | 6.9              | 4.1                 | 6.9                                     | 17,732          |

Note 1: 1 case with missing "education of woman" is not shown

Note 2: 14 cases of "pre-school" education are not shown

Note 3: 31 cases of "Madrassa" education are not shown

[1] MICS indicator 9.3

216. The indicators on attitudes toward people living with HIV measure stigma and discrimination in the community. Stigma and discrimination are low if respondents report an accepting attitude on the following four questions: (i) would care for family member sick with AIDS; (ii) would buy fresh vegetables from a vendor who was HIV positive; (iii) thinks that a female teacher who is HIV positive should be allowed to teach in school; and (iv) would *not* want to keep HIV status of a family member a secret.

217. Table HA.4 presents attitudes of women towards people living with HIV/AIDS, on the basis of four questions mentioned in the above paragraph. The response to first question 'would care for family member sick with AIDS' was very encouraging as 79 percent women reacted in a positive way; there was no major variation in the response rate on the basis of area of residence, age group, marital status, education status and wealth index quintiles except that response rate from Sibi region was as low as 39 percent.

218. Attitude of respondents towards second question 'would buy fresh vegetables from a vendor who was HIV positive' was relatively less positive compared to first question, as only 3 out of every five women showed willingness to use the services of the vendor. The response rate from all categories of respondents was fairly uniform except lesser positive attitude from uneducated women (38%), and those from three lower wealth quintiles.

219. Respondents' attitude towards third question 'thinks that a female teacher who is HIV positive should be allowed to teach in school' was similar to the second question, and 3 out of every five women showed a constructive outlook. The pattern of reply to question 3 from all categories of respondents was also fairly homogeneous except lesser optimistic opinion from uneducated women (38%), and those from the three lower wealth quintiles (38 to 39%).

220. Opinion towards fourth question 'would not want to keep HIV status of a family member a secret' was found least positive, and only 37.4 respondent women had a positive outlook. The pattern of reply to this question was fairly homogeneous from all categories of respondents except a better response rate from residents of Makran region (52.5%).

221. Agreement with at least one accepting attitude was fairly high among all categories of respondent women ranging from 87 to 100 percent except those from Sibi region at 64 percent. However, accepting attitude on all four indicators (a MICS composite indicator) came down to a low level of 19 percent (MICS indicator 9.4), and the response rate was in the range of 12 – 30 percent from respondents of different background, but with extremely low accepting response from Nasirabad region (2.8%), Sibi region (3.5%) and illiterate women (6.8%)

**Table HA.4: Accepting attitudes toward people living with HIV/AIDS**  
**Percentage of women age 15-49 years who have heard of AIDS who express an accepting attitude towards people living with HIV/AIDS, Balochistan Province, Pakistan, 2010**

|                               |               | Percent of women who:                                                   |                                                                               |                                                                                                          |                                                                                     |                                            |                                                        | Number of women who have heard of AIDS |
|-------------------------------|---------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------|--------------------------------------------------------|----------------------------------------|
|                               |               | Are willing to care for a family member with the AIDS virus in own home | Would buy fresh vegetables from a shopkeeper or vendor who has the AIDS virus | Believe that a female teacher with the AIDS virus and is not sick should be allowed to continue teaching | Would not want to keep secret that a family member got infected with the AIDS virus | Agree with at least one accepting attitude | Express accepting attitudes on all four indicators [1] |                                        |
| <b>Region</b>                 | Quetta        | 86.9                                                                    | 70.8                                                                          | 76.8                                                                                                     | 38.2                                                                                | 96.5                                       | 24.4                                                   | 910                                    |
|                               | Kalat         | 79.8                                                                    | 57.7                                                                          | 57.6                                                                                                     | 46.3                                                                                | 94.2                                       | 22.2                                                   | 502                                    |
|                               | Sibi          | 39.3                                                                    | 25.5                                                                          | 27.9                                                                                                     | 33.9                                                                                | 63.9                                       | 3.5                                                    | 275                                    |
|                               | Zhob          | 78.8                                                                    | 59.4                                                                          | 62.1                                                                                                     | 41.9                                                                                | 87.8                                       | 23.3                                                   | 184                                    |
|                               | Nasirabad     | 69.9                                                                    | 60.5                                                                          | 61.7                                                                                                     | 12.2                                                                                | 89.4                                       | 2.8                                                    | 577                                    |
|                               | Makran        | 91.9                                                                    | 58.4                                                                          | 47.6                                                                                                     | 52.5                                                                                | 98.6                                       | 28.4                                                   | 631                                    |
| <b>Area</b>                   | Urban         | 85.0                                                                    | 67.8                                                                          | 70.9                                                                                                     | 37.4                                                                                | 95.9                                       | 20.0                                                   | 1,523                                  |
|                               | Rural         | 72.8                                                                    | 51.3                                                                          | 48.6                                                                                                     | 37.5                                                                                | 87.8                                       | 17.8                                                   | 1,556                                  |
| <b>Age group</b>              | 15-24         | 81.5                                                                    | 62.2                                                                          | 64.1                                                                                                     | 36.1                                                                                | 93.5                                       | 19.3                                                   | 1,515                                  |
|                               | 25+           | 76.3                                                                    | 56.8                                                                          | 55.2                                                                                                     | 38.7                                                                                | 90.2                                       | 18.5                                                   | 1,564                                  |
| <b>Age group</b>              | 15-19         | 80.2                                                                    | 60.9                                                                          | 62.1                                                                                                     | 36.0                                                                                | 94.2                                       | 18.1                                                   | 833                                    |
|                               | 20-24         | 83.0                                                                    | 63.8                                                                          | 66.6                                                                                                     | 36.2                                                                                | 92.6                                       | 20.8                                                   | 682                                    |
|                               | 25-29         | 77.0                                                                    | 59.4                                                                          | 59.4                                                                                                     | 35.7                                                                                | 91.2                                       | 16.7                                                   | 598                                    |
|                               | 30-39         | 75.3                                                                    | 55.4                                                                          | 53.6                                                                                                     | 40.0                                                                                | 90.7                                       | 18.2                                                   | 684                                    |
|                               | 40-49         | 77.5                                                                    | 54.6                                                                          | 50.5                                                                                                     | 42.1                                                                                | 86.8                                       | 22.9                                                   | 283                                    |
| <b>Marital status</b>         | Ever married  | 76.9                                                                    | 55.9                                                                          | 55.7                                                                                                     | 38.0                                                                                | 90.5                                       | 17.2                                                   | 1,613                                  |
|                               | Never married | 81.0                                                                    | 63.4                                                                          | 63.9                                                                                                     | 36.8                                                                                | 93.2                                       | 20.7                                                   | 1,466                                  |
| <b>Education</b>              | None          | 62.9                                                                    | 38.1                                                                          | 38.5                                                                                                     | 30.0                                                                                | 81.5                                       | 6.8                                                    | 870                                    |
|                               | Primary       | 68.8                                                                    | 55.0                                                                          | 61.9                                                                                                     | 32.2                                                                                | 88.3                                       | 12.5                                                   | 250                                    |
|                               | Middle        | 80.2                                                                    | 64.3                                                                          | 63.2                                                                                                     | 43.2                                                                                | 94.9                                       | 24.6                                                   | 319                                    |
|                               | Matric        | 86.1                                                                    | 67.0                                                                          | 61.3                                                                                                     | 37.7                                                                                | 96.7                                       | 20.5                                                   | 866                                    |
|                               | Higher        | 91.7                                                                    | 74.5                                                                          | 79.2                                                                                                     | 44.9                                                                                | 98.0                                       | 30.4                                                   | 772                                    |
| <b>Wealth index quintiles</b> | Poorest       | 86.3                                                                    | 42.5                                                                          | 37.6                                                                                                     | 30.6                                                                                | 92.6                                       | 13.7                                                   | 98                                     |
|                               | Second        | 70.2                                                                    | 42.8                                                                          | 38.4                                                                                                     | 30.2                                                                                | 85.8                                       | 12.1                                                   | 280                                    |
|                               | Middle        | 71.9                                                                    | 48.8                                                                          | 39.3                                                                                                     | 38.0                                                                                | 86.2                                       | 14.8                                                   | 415                                    |
|                               | Fourth        | 73.9                                                                    | 54.2                                                                          | 54.6                                                                                                     | 41.2                                                                                | 88.8                                       | 19.4                                                   | 728                                    |
|                               | Richest       | 84.1                                                                    | 68.8                                                                          | 72.6                                                                                                     | 37.2                                                                                | 95.7                                       | 21.2                                                   | 1,558                                  |
| <b>Total</b>                  |               | 78.9                                                                    | 59.5                                                                          | 59.6                                                                                                     | 37.4                                                                                | 91.8                                       | 18.9                                                   | 3,079                                  |

Note 1: 1 case with missing "education of woman" is not shown

Note 2: 2 cases of preschool and 1 case of madrassa level of education are not shown

[1] MICS indicator 9.4

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# Appendices



## Appendix-A Sample Design

The major features of the sample design are described in this appendix. Sample design features include target sample size, sample allocation, sampling frame and listing, choice of domains, sampling stages, stratification, and the calculation of sample weights.

The primary objective of the sample design for the province of Balochistan, Multiple Indicator Cluster Survey was to produce statistically reliable estimates of most indicators, at the Balochistan level, for urban and rural areas, and for six regions of Balochistan, The six regions were defined as the sampling strata.

A two-stage, stratified cluster sampling approach was used for the selection of the survey sample.

### Sample size and sample allocation

The target sample size for the Balochistan MICS was calculated as 12,378 households. For the calculation of the sample size, the indicators used were the immunisation, literacy rate, antenatal and postnatal care. The following formula was used to estimate the required sample size for these indicators:

$$n = \frac{[4(r)(1-r)(f)(1.05)]}{[(0.0966r)^2(p)(\bar{n})]}$$

where

- $n$  is the required sample size, expressed as number of households
- $4$  is a factor to achieve the 95 percent level of confidence
- $r$  is the predicted or anticipated value of the indicator, expressed in the form of a proportion
- $1.05$  is the factor necessary to raise the sample size by 5 per cent for the expected non-response [the actual factor will be based on the non-response level experienced in previous surveys in the country]
- $f$  is the shortened symbol for *deff* (design effect)
- $0.0966r$  is the margin of error to be tolerated at the 95 percent level of confidence, defined as 9.66 per cent (less than 10%) of  $r$  (relative margin of error of  $r$ )
- $p$  is the proportion of the total population upon which the indicator,  $r$ , is based
- $\bar{n}$  is the average household size (number of persons per household)

For the calculation,  $r$  full immunisation rate was assumed to be 35 percent. The value of *deff* (design effect) was taken as 1.5 based on estimates from previous surveys,  $p$  (percentage of

children aged 12-23 month in the total population) was taken as 8 percent,  $\bar{n}$  (average household size) was taken as 7.6 households, and the response rate is assumed to be 95%. The key indicator used to fix sample size at regions(strata) was a combination of complete immunization and skilled birth attendance obtained from district-based Multiple Indicators Cluster Survey 2004 and Pakistan Social and living Standards Measurement survey(PSLM)2005.

The resulting number of average households from this exercise was 2063 households which is the sample size needed in each region – thus yielding about 12378 in total. The estimates of key variables would be valid at region level. The average number of households selected per cluster for the Balochistan MICS was determined as 12 and 16 households for urban and rural areas respectively, based on a number of considerations, including the design effect, the budget available, and the time that would be needed per team to complete one cluster. Dividing the total number of households by the number of sample households per cluster, it was calculated that on an average 140 sample clusters would need to be selected in each region.

A combination of proportional and square root type of allocation was used to distribute total sample size to the six regions. A sample size in the range of 85 to 176 sample clusters was allocated to six regions. On the average 140 clusters were allocated to each region. Consequently, a sample of 844 (sample areas) clusters was fixed for the entire six regions of Balochistan province. In each region, the clusters (primary sampling units) were distributed to urban and rural domains, proportional to the size of urban and rural populations in that region. Meanwhile, a higher proportion of sample was allocated to urban domain and smaller region(s) to get reliable estimates. The table below shows the allocation of clusters to six regions. Three sample clusters were not covered from Quetta region due to refusal/non contact and security reasons.

| <b>Regions/Strata</b>          | <b>Number of Clusters By</b> |              |              |
|--------------------------------|------------------------------|--------------|--------------|
|                                | <b>Urban</b>                 | <b>Rural</b> | <b>Total</b> |
| <b><u>Quetta Region</u></b>    | 74                           | 101          | 175          |
| <b><u>Kalat Region</u></b>     | 40                           | 107          | 147          |
| <b><u>Sibi Region</u></b>      | 46                           | 115          | 161          |
| <b><u>Nasirabad Region</u></b> | 19                           | 78           | 97           |
| <b><u>Makran Region</u></b>    | 33                           | 52           | 85           |
| <b><u>Zhob Region</u></b>      | 28                           | 148          | 176          |
| <b><u>Total</u></b>            | 240                          | 601          | 841          |

### **Sampling frame and selection of clusters**

The sampling frame developed for all urban areas of Balochistan province by Federal Bureau of Statistics during 2004 and village list published by Population Census Organisation as a result of population census during 1998 was used for the selection of clusters. Enumeration blocks in urban areas and village in rural areas of the province were defined as primary sampling units (PSUs), and were selected from each of the sampling strata by using systematic pps (probability proportional to size) sampling procedures, based on the estimated sizes of the enumeration areas from Urban area frame 2004 and the 1998 Population Census respectively. Selecting the required number of enumeration areas from each of the 6 regions, separately by urban and rural strata, thus completed the first stage of sampling.

### **Listing activities**

Since the sampling frame in respect of urban areas developed during 2004 and in rural areas in the 1998 Population Census- was not up-to-date, a new listing of households was conducted in all the sample enumeration areas prior to the selection of households. For this purpose, listing teams were formed, who visited each enumeration area, and listed the occupied households.

Fresh listing of households was undertaken in all sample areas. For this purpose, a comprehensive training to the listers was imparted. In urban areas, enumeration blocks have been considered as Primary sampling units (PSUs). The sketch map of enumeration blocks demarcated by Federal Bureau of Statistics (FBS) in urban area of Baluchistan province was used to perform listing work. In rural areas, villages as per Population Census 1998 have been treated as Primary sampling units (PSUs). Large sample villages having population more than 2000 as per Population Census 1998 were split up into hamlets/blocks of equal size. One block was selected randomly for data collection. Small villages were completely listed. The listing of households was used to select a specified number of households from urban and rural sample areas.

### **Selection of households**

The listing teams in the field for each enumeration area prepared lists of households. The households were then sequentially numbered from 1 to n (the total number of households in each enumeration area) at the Central Statistical Office, where the selection of 12 and 16 households in each enumeration area and village was carried out respectively using random systematic selection procedures.

### **Calculation of sample weights**

The Balochistan Multiple Indicator Cluster Survey sample is not self-weighting. Essentially, by allocating different numbers of households to each of the regions, different sampling fractions were used in each region since the size of the regions varied. For this reason, sample weights were calculated and these were used in the subsequent analyses of the survey data.

The major component of the weight is the reciprocal of the sampling fraction employed in selecting the number of sample households in that particular sampling stratum (h) and PSU (i):

$$W_{hi} = \frac{1}{f_{hi}}$$

The term  $f_{hi}$ , the sampling fraction for the  $i$ -th sample PSU in the  $h$ -th stratum, is the product of probabilities of selection at every stage in each sampling stratum:

$$f_{hi} = p_{1hi} \times p_{2hi}$$

Where  $p_{shi}$  is the probability of selection of the sampling unit at stages for the  $i$ -th sample PSU in the  $h$ -th sampling stratum.

Since the estimated number of households in each enumeration area (PSU) in the sampling frame used for the first stage selection and the updated number of households in the enumeration area from the listing were different, individual sampling fractions for households in each sample enumeration area (cluster) were calculated. The sampling fractions for households in each enumeration area (cluster) therefore included the first stage probability of selection of the enumeration area in that particular sampling stratum and the second stage probability of selection of a household in the sample enumeration area (cluster).

A second component in the calculation of sample weights takes into account the level of non-response for the household and individual interviews. The adjustment for household non-response is equal to the inverse value of:

$$RR_h = \text{Number of interviewed households in stratum } h / \text{Number of occupied households listed in stratum } h$$

After the completion of fieldwork, response rates were calculated for each sampling stratum. These were used to adjust the sample weights calculated for each cluster. Response rates in the Balochistan Multiple Indicator Cluster Survey are shown in Table HH.1 in this report.

Similarly, the adjustment for non-response at the individual level (women and under-5 children) for each stratum is equal to the inverse value of:

$$RR_h = \text{Completed women's (or under-5's) questionnaires in stratum } h / \text{Eligible women (or under-5s) in stratum } h$$

The non-response adjustment factors for women's and under-5's questionnaires are applied to the adjusted household weights. Numbers of eligible women and under-5 children were obtained from the roster of household members in the Household Questionnaire for households where interviews were completed.

The design weights for the households were calculated by multiplying the above factors for each enumeration area. These weights were then standardized (or normalized), one purpose of which is to make the weighted sum of the interviewed sample units equal the total sample size at the provincial level. Dividing the aforementioned design weights by the average

design weight at the provincial level performs normalization. The average design weight is calculated as the sum of the design weights divided by the un weighted total). A similar standardization procedure was followed in obtaining standardized weights for the women's and under-5's questionnaires. Adjusted (normalized) weights varied between 0.08246123 and 3.8667738 in the 841 sample enumeration areas (clusters).

Sample weights were appended to all data sets and weighting each household, woman or under-5 with these sample weights performed analyses.

**Appendix-B List of Personnel Involved in the Survey**

**Planning and Development Department, Government of Balochistan**

Mr. Arif Hussain Shah  
Mr. Kamran Khan  
Mr. Khalid Pervaiz

**UNICEF**

Mr. Zulfiqar Durrani

**SoSec Consulting Services**

Mr. Mehboob Sultan  
Mr. Moin-ud-din  
Dr. Bashir ul Haq  
Dr. Riaz A Malik  
Dr. Asma Bokhari.  
Ms. Sadia Batool Naqvi  
Mr. Kashif Malik  
Mr. Imran Latif  
Mr. Habib ullah Kakar  
Mr. Sohail Asghar  
Mr. Hanif Panezai  
Mr. Raheel Shahzad  
Mr. Imran Bin Younis  
Ms. Adeela  
Ms. Rashida  
Ms. Nauzeen Sangeen  
Ms. Saima Saghir  
Ms. Tasneem Aslam  
Ms. Shazia Khan  
Mr. Shahid Mehmood  
Mr. Idrees Ahmed  
Mr. Waheed Mughal  
Mr. Zaheer Sadiq

**Regional Supervisors**

|          |                   |
|----------|-------------------|
| Region-1 | Akbar Khan Kakar  |
| Region-2 | Rashid Ahmad      |
| Region-3 | Bashir Ahmad      |
| Region-4 | Muhammad Siddique |
| Region-5 | Qasim Jan         |
| Region-6 | Zahoor Ahmad      |

## **Field Staff**

### **Region-1: (Quetta, Pishin, Ziarat, Qilla Abdullah and Harnai)**

#### **Team-A**

|              |             |
|--------------|-------------|
| Peer jan     | Supervisor  |
| Nasreen Gul  | Interviewer |
| Saira Iqbal  | Interviewer |
| Anila Younas | Interviewer |
| Zubaida      | Interviewer |

#### **Team-B**

|              |             |
|--------------|-------------|
| Naseebullah  | Supervisor  |
| Bakht Zamina | Interviewer |
| Farzana Khan | Interviewer |
| Lailuma      | Interviewer |
| Gul Nigar    | Interviewer |

### **Region-2: (Mastung, Kalat, Awaran, Khuzdar, Lasbella)**

#### **Team-A**

|                 |             |
|-----------------|-------------|
| Najee-ur-Rehman | Supervisor  |
| Rashida         | Interviewer |
| Sumaira         | Interviewer |
| Shaista Bashir  | Interviewer |
| Rabia Jamal     | Interviewer |

#### **Team-B**

|               |             |
|---------------|-------------|
| Qambar        | Supervisor  |
| Aila Kausar   | Interviewer |
| Azra Batool   | Interviewer |
| Shabana Ahmad | Interviewer |
| Kah Kashan    | Interviewer |

### **Region-3: (Jafaraba, Nasirabad, Jhal Magsi, Bolan, Sibi, Dera Bugti)**

#### **Team-A**

|               |             |
|---------------|-------------|
| Shabir Ahmad  | Supervisor  |
| Habiba Khan   | Interviewer |
| Tahira Jabeen | Interviewer |
| Nadeeha Noor  | Interviewer |
| Salma         | Interviewer |

#### **Team-B**

|             |             |
|-------------|-------------|
| Abdul Karim | Supervisor  |
| Rukhsana    | Interviewer |
| Nadia Noor  | Interviewer |
| Fehmida     | Interviewer |
| Farzana     | Interviewer |

**Region-4: (Noshiki, Chagi, Kharan, Washuk)**

**Team-A**

|               |             |
|---------------|-------------|
| Abid Hussain  | Supervisor  |
| Bilqees Anjum | Interviewer |
| Rubina Shah   | Interviewer |
| Fehmida Shah  | Interviewer |
| Bibi Halima   | Interviewer |

**Team-B**

|              |             |
|--------------|-------------|
| Masood Rahki | Supervisor  |
| Millat Syed  | Interviewer |
| Shagufta     | Interviewer |
| Zar Gul      | Interviewer |
| Husna        | Interviewer |

**Region-5: (Panjgoor, Kech, Gawadar)**

**Team-A**

|                  |             |
|------------------|-------------|
| Abdul Ahad       | Supervisor  |
| Farhana Gul      | Interviewer |
| Nazia            | Interviewer |
| Dur Jan          | Interviewer |
| Sabeeta Abdullah | Interviewer |

**Team-B**

|               |             |
|---------------|-------------|
| Sanaullah     | Supervisor  |
| Mariam        | Interviewer |
| Sakina Hameed | Interviewer |
| Safia         | Interviewer |
| Shahnaz       | Interviewer |

**Region-6: (Qilla Abdullah, Zhob, Sherani, Musa Khel, Loralai, Barkhan, Kohlu)**

**Team-A**

|               |             |
|---------------|-------------|
| Sher Afghan   | Supervisor  |
| Fauzia Yasmin | Interviewer |
| Shal Bhat     | Interviewer |
| Khubana Barki | Interviewer |
| Sumaira       | Interviewer |

**Team-B**

|                   |             |
|-------------------|-------------|
| Moeen Akhtar Khan | Supervisor  |
| Shaheen Kausar    | Interviewer |
| Naik Bibi         | Interviewer |
| Bibi Fauzia       | Interviewer |
| Sultan Bibi       | Interviewer |



## **Appendix C Estimates of sampling errors**

**Table SE.1: Indicators selected for sampling error calculations**

List of indicators selected for sampling error calculations, and base populations (denominators) for each indicator, Balochistan Province, Pakistan, 2010

| MICS4 Indicator   |                                                               | Base Population                                                                          |
|-------------------|---------------------------------------------------------------|------------------------------------------------------------------------------------------|
| HOUSEHOLDS        |                                                               |                                                                                          |
| 2.16              | Iodized salt consumption                                      | All households                                                                           |
| 3.12              | Household availability of insecticide-treated nets (ITNs)     | All households                                                                           |
| HOUSEHOLD MEMBERS |                                                               |                                                                                          |
| 4.1               | Use of improved drinking water sources                        | All household members                                                                    |
| 4.3               | Use of improved sanitation facilities                         | All household members                                                                    |
| 7.5               | Secondary school net attendance ratio (adjusted)              | Children of secondary school age                                                         |
| 8.2               | Child labour                                                  | Children age 5-14 years                                                                  |
| WOMEN             |                                                               |                                                                                          |
| -                 | Pregnant women                                                | Ever married women age 15-49 years                                                       |
| 3.20              | Intermittent preventive treatment for malaria                 | Ever married women age 15-49 years with a live birth in the 2 years preceding the survey |
| 5.2               | Early childbearing                                            | Ever married women age 20-24 years                                                       |
| 5.3               | Contraceptive prevalence                                      | Women age 15-49 years who are currently married                                          |
| 5.5a              | Antenatal care coverage - at least once by skilled personnel  | Ever married women age 15-49 years with a live birth in the 2 years preceding the survey |
| 5.5b              | Antenatal care coverage – at least four times by any provider | Ever married women age 15-49 years with a live birth in the 2 years preceding the survey |
| 5.7               | Skilled attendant at delivery                                 | Ever married women age 15-49 years with a live birth in the 2 years preceding the survey |
| 5.8               | Institutional deliveries                                      | Ever married women age 15-49 years with a live birth in the 2 years preceding the survey |
| 7.1               | Literacy rate among young women                               | Women age 15-24 years                                                                    |
| 8.7               | Marriage before age 18                                        | Women age 20-49 years                                                                    |
| 9.3               | Knowledge of mother- to-child transmission of HIV             | Women age 15-49 years                                                                    |
| 9.4               | Accepting attitudes towards people living with HIV            | Women age 15-49 years                                                                    |

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UNDER-5s

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|      |                                                                     |                                                                       |
|------|---------------------------------------------------------------------|-----------------------------------------------------------------------|
| 2.6  | Exclusive breastfeeding under 6 months                              | Total number of infants under 6 months of age                         |
| 2.14 | Age-appropriate breastfeeding                                       | Children age 0-23 months                                              |
| -    | Tuberculosis immunization coverage                                  | Children age 12-23 months                                             |
| -    | Received polio immunization                                         | Children age 12-23 months                                             |
| -    | Received DPT immunization                                           | Children age 12-23 months                                             |
| -    | Received measles immunization                                       | Children age 12-23 months                                             |
| -    | Received Hepatitis B immunization                                   | Children age 12-23 months                                             |
| -    | Diarrhoea in the previous 2 weeks                                   | Children under age 5                                                  |
| -    | Illness with a cough in the previous 2 weeks                        | Children under age 5                                                  |
| -    | Fever in last two weeks                                             | Children under age 5                                                  |
| 3.8  | Oral rehydration therapy with continued feeding                     | Children under age 5 with diarrhoea in the previous 2 weeks           |
| 3.10 | Antibiotic treatment of suspected pneumonia                         | Children under age 5 with suspected pneumonia in the previous 2 weeks |
| 3.15 | Children under age 5 sleeping under insecticide-treated nets (ITNs) | Children under age 5                                                  |
| 3.18 | Anti-malarial treatment of children under age 5                     | Children under age 5 with fever in the previous 2 weeks               |
| 6.1  | Support for learning                                                | Children age 36-59 months                                             |
| 6.7  | Attendance to early childhood education                             | Children age 36-59 months                                             |
| 8.1  | Birth registration                                                  | Children under age 5                                                  |

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## Estimates of Sampling Errors

| <b>Table SE.2: Sampling errors: Total sample</b>                                                                                                                                                                 |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------|------------------------------|------------------------------------------|-------------------------------|----------------------------------------------|----------------|------------------|------------------------|------------------------|
| Standard errors, coefficients of variation, design effects ( <i>deff</i> ), square root of design effects ( <i>deft</i> ) and confidence intervals for selected indicators, Balochistan Province, Pakistan, 2010 |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
|                                                                                                                                                                                                                  | MICS Indicator | Value ( <i>r</i> ) | Standard error ( <i>se</i> ) | Coefficient of variation ( <i>se/r</i> ) | Design effect ( <i>deff</i> ) | Square root of design effect ( <i>deft</i> ) | Weighted count | Unweighted count | Confidence limits      |                        |
|                                                                                                                                                                                                                  |                |                    |                              |                                          |                               |                                              |                |                  | <i>r</i> - 2 <i>se</i> | <i>r</i> + 2 <i>se</i> |
| <b>HOUSEHOLDS</b>                                                                                                                                                                                                |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Iodized salt consumption                                                                                                                                                                                         | 2.16           | 0.1023             | 0.0040                       | 0.039                                    | 1.980                         | 1.407                                        | 11,367         | 11,327           | 0.094                  | 0.110                  |
| Household availability of insecticide-treated nets (ITNs)                                                                                                                                                        | 3.12           | 0.0286             | 0.0027                       | 0.095                                    | 3.092                         | 1.758                                        | 11,612         | 11,612           | 0.023                  | 0.034                  |
| <b>HOUSEHOLD MEMBERS</b>                                                                                                                                                                                         |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Use of improved drinking water sources                                                                                                                                                                           | 4.1            | 0.7371             | 0.0091                       | 0.012                                    | 4.978                         | 2.231                                        | 89,218         | 11,612           | 0.719                  | 0.755                  |
| Use of improved sanitation facilities                                                                                                                                                                            | 4.3            | 0.6145             | 0.0100                       | 0.016                                    | 4.877                         | 2.208                                        | 89,218         | 11,612           | 0.595                  | 0.634                  |
| Secondary school net attendance ratio (adjusted)                                                                                                                                                                 | 7.5            | 0.2780             | 0.0077                       | 0.028                                    | 3.988                         | 1.997                                        | 14,111         | 13,603           | 0.263                  | 0.293                  |
| Child labour                                                                                                                                                                                                     | 8.2            | 0.1733             | 0.0058                       | 0.033                                    | 6.121                         | 2.474                                        | 26,771         | 26,504           | 0.162                  | 0.185                  |
| <b>WOMEN</b>                                                                                                                                                                                                     |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Pregnant women                                                                                                                                                                                                   | -              | 0.1333             | 0.0040                       | 0.030                                    | 2.465                         | 1.570                                        | 17,732         | 17,732           | 0.125                  | 0.141                  |
| Intermittent preventive treatment for malaria                                                                                                                                                                    | 3.20           | 0.0308             | 0.0048                       | 0.157                                    | 0.705                         | 0.840                                        | 973            | 901              | 0.021                  | 0.040                  |
| Early childbearing                                                                                                                                                                                               | 5.2            | 0.1098             | 0.0069                       | 0.063                                    | 1.444                         | 1.202                                        | 2,972          | 2,976            | 0.096                  | 0.124                  |
| Contraceptive prevalence                                                                                                                                                                                         | 5.3            | 0.1465             | 0.0049                       | 0.034                                    | 2.194                         | 1.481                                        | 11,260         | 11,305           | 0.137                  | 0.156                  |
| Antenatal care coverage - at least once by skilled personnel                                                                                                                                                     | 5.5a           | 0.3906             | 0.0134                       | 0.034                                    | 1.768                         | 1.330                                        | 2,491          | 2,358            | 0.364                  | 0.417                  |
| Antenatal care coverage – at least four times by any provider                                                                                                                                                    | 5.5b           | 0.1125             | 0.0074                       | 0.066                                    | 1.285                         | 1.133                                        | 2,491          | 2,358            | 0.098                  | 0.127                  |
| Skilled attendant at delivery                                                                                                                                                                                    | 5.7            | 0.2889             | 0.0116                       | 0.040                                    | 1.539                         | 1.241                                        | 2,491          | 2,358            | 0.266                  | 0.312                  |
| Institutional deliveries                                                                                                                                                                                         | 5.8            | 0.2421             | 0.0100                       | 0.041                                    | 1.291                         | 1.136                                        | 2,491          | 2,358            | 0.222                  | 0.262                  |
| Literacy rate among young women                                                                                                                                                                                  | 7.1            | 0.3287             | 0.0117                       | 0.036                                    | 4.413                         | 2.101                                        | 7,222          | 7,089            | 0.305                  | 0.352                  |
| Marriage before age 18                                                                                                                                                                                           | 8.7            | 0.3465             | 0.0067                       | 0.019                                    | 2.674                         | 1.635                                        | 13,482         | 13,619           | 0.333                  | 0.360                  |
| Knowledge of mother- to-child transmission of HIV                                                                                                                                                                | 9.3            | 0.0408             | 0.0029                       | 0.071                                    | 3.806                         | 1.951                                        | 17,732         | 17,732           | 0.035                  | 0.047                  |
| Accepting attitudes towards people living with HIV                                                                                                                                                               | 9.4            | 0.1888             | 0.0122                       | 0.065                                    | 2.752                         | 1.659                                        | 3,079          | 2,827            | 0.164                  | 0.213                  |
| <b>UNDER-5s</b>                                                                                                                                                                                                  |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Exclusive breastfeeding under 6 months                                                                                                                                                                           | 2.6            | 0.3973             | 0.0155                       | 0.039                                    | 0.752                         | 0.867                                        | 749            | 751              | 0.366                  | 0.428                  |
| Age-appropriate breastfeeding                                                                                                                                                                                    | 2.14           | 0.4433             | 0.0109                       | 0.025                                    | 1.328                         | 1.152                                        | 2855           | 2,751            | 0.422                  | 0.465                  |
| Tuberculosis immunization coverage                                                                                                                                                                               | -              | 0.3447             | 0.0164                       | 0.047                                    | 1.638                         | 1.280                                        | 1437           | 1,384            | 0.312                  | 0.377                  |
| Received polio immunization                                                                                                                                                                                      | -              | 0.4610             | 0.0193                       | 0.042                                    | 1.996                         | 1.413                                        | 1410           | 1,326            | 0.422                  | 0.500                  |

**Table SE.2: Sampling errors: Total sample**Standard errors, coefficients of variation, design effects (*deff*), square root of design effects (*deft*) and confidence intervals for selected indicators, Balochistan Province, Pakistan, 2010

|                                                                     | MICS Indicator | Value ( <i>r</i> ) | Standard error ( <i>se</i> ) | Coefficient of variation ( <i>se/r</i> ) | Design effect ( <i>deff</i> ) | Square root of design effect ( <i>deft</i> ) | Weighted count | Unweighted count | Confidence limits      |                        |
|---------------------------------------------------------------------|----------------|--------------------|------------------------------|------------------------------------------|-------------------------------|----------------------------------------------|----------------|------------------|------------------------|------------------------|
|                                                                     |                |                    |                              |                                          |                               |                                              |                |                  | <i>r</i> - 2 <i>se</i> | <i>r</i> + 2 <i>se</i> |
| Received DPT immunization                                           | -              | 0.1218             | 0.0114                       | 0.094                                    | 1.634                         | 1.278                                        | 1379           | 1,336            | 0.099                  | 0.145                  |
| Received measles immunization                                       | -              | 0.2291             | 0.0149                       | 0.065                                    | 1.662                         | 1.289                                        | 1365           | 1,318            | 0.199                  | 0.259                  |
| Received Hepatitis B immunization                                   | -              | 0.0673             | 0.0085                       | 0.127                                    | 1.512                         | 1.230                                        | 1358           | 1,308            | 0.050                  | 0.084                  |
| Diarrhea in the previous 2 weeks                                    | -              | 0.2116             | 0.0060                       | 0.028                                    | 2.119                         | 1.456                                        | 9734           | 9,734            | 0.200                  | 0.224                  |
| Illness with a cough in the previous 2 weeks                        | -              | 0.0446             | 0.0028                       | 0.062                                    | 1.767                         | 1.329                                        | 9734           | 9,734            | 0.039                  | 0.050                  |
| Fever in last two weeks                                             | -              | 0.1768             | 0.0068                       | 0.038                                    | 3.063                         | 1.750                                        | 9734           | 9,734            | 0.163                  | 0.190                  |
| Oral rehydration therapy with continued feeding                     | 3.8            | 0.5570             | 0.0137                       | 0.025                                    | 1.594                         | 1.263                                        | 2060           | 2,102            | 0.530                  | 0.584                  |
| Antibiotic treatment of suspected pneumonia                         | 3.10           | 0.3733             | 0.0159                       | 0.043                                    | 0.460                         | 0.678                                        | 434            | 424              | 0.341                  | 0.405                  |
| Children under age 5 sleeping under insecticide-treated nets (ITNs) | 3.15           | 0.0065             | 0.0015                       | 0.226                                    | 3.211                         | 1.792                                        | 9609           | 9,611            | 0.004                  | 0.009                  |
| Anti-malarial treatment of children under age 5                     | 3.18           | 0.2411             | 0.0178                       | 0.074                                    | 2.905                         | 1.704                                        | 1721           | 1,676            | 0.205                  | 0.277                  |
| Support for learning                                                | 6.1            | 0.3793             | 0.0111                       | 0.029                                    | 2.627                         | 1.621                                        | 4905           | 4,980            | 0.357                  | 0.402                  |
| Attendance to early childhood education                             | 6.7            | 0.0316             | 0.0030                       | 0.096                                    | 1.503                         | 1.226                                        | 4905           | 4,980            | 0.026                  | 0.038                  |
| Birth registration                                                  | 8.1            | 0.2290             | 0.0083                       | 0.036                                    | 3.777                         | 1.943                                        | 9734           | 9,734            | 0.212                  | 0.246                  |

**Table SE.3: Sampling errors: Urban areas**Standard errors, coefficients of variation, design effects (*deff*), square root of design effects (*deft*) and confidence intervals for selected indicators, Balochistan Province, Pakistan, 2010

|                                                               | MICS Indicator | Value ( <i>r</i> ) | Standard error ( <i>se</i> ) | Coefficient of variation ( <i>se/r</i> ) | Design effect ( <i>deff</i> ) | Square root of design effect ( <i>deft</i> ) | Weighted count | Unweighted count | Confidence limits |                |
|---------------------------------------------------------------|----------------|--------------------|------------------------------|------------------------------------------|-------------------------------|----------------------------------------------|----------------|------------------|-------------------|----------------|
|                                                               |                |                    |                              |                                          |                               |                                              |                |                  | <i>r - 2se</i>    | <i>r + 2se</i> |
| HOUSEHOLDS                                                    |                |                    |                              |                                          |                               |                                              |                |                  |                   |                |
| Iodized salt consumption                                      | 2.16           | 0.1735             | 0.0094                       | 0.054                                    | 1.589                         | 1.260                                        | 2652           | 2553             | 0.155             | 0.192          |
| Household availability of insecticide-treated nets (ITNs)     | 3.12           | 0.0242             | 0.0034                       | 0.139                                    | 1.261                         | 1.123                                        | 2720           | 2626             | 0.017             | 0.031          |
| HOUSEHOLD MEMBERS                                             |                |                    |                              |                                          |                               |                                              |                |                  |                   |                |
| Use of improved drinking water sources                        | 4.1            | 0.9064             | 0.0127                       | 0.014                                    | 5.018                         | 2.240                                        | 20570          | 2626             | 0.881             | 0.932          |
| Use of improved sanitation facilities                         | 4.3            | 0.8154             | 0.0149                       | 0.018                                    | 3.848                         | 1.962                                        | 20570          | 2626             | 0.786             | 0.845          |
| Secondary school net attendance ratio (adjusted)              | 7.5            | 0.4160             | 0.0156                       | 0.037                                    | 3.231                         | 1.798                                        | 3317           | 3230             | 0.385             | 0.447          |
| Child labour                                                  | 8.2            | 0.1183             | 0.0082                       | 0.069                                    | 3.690                         | 1.921                                        | 5717           | 5760             | 0.102             | 0.135          |
| WOMEN                                                         |                |                    |                              |                                          |                               |                                              |                |                  |                   |                |
| Pregnant women                                                | -              | 0.0950             | 0.0065                       | 0.069                                    | 2.104                         | 1.451                                        | 4414           | 4240             | 0.082             | 0.108          |
| Intermittent preventive treatment for malaria                 | 3.20           | 0.0263             | 0.0072                       | 0.276                                    | 0.704                         | 0.839                                        | 381            | 344              | 0.012             | 0.041          |
| Early childbearing                                            | 5.2            | 0.0819             | 0.0094                       | 0.115                                    | 0.903                         | 0.950                                        | 854            | 764              | 0.063             | 0.101          |
| Contraceptive prevalence                                      | 5.3            | 0.2135             | 0.0120                       | 0.056                                    | 2.152                         | 1.467                                        | 2545           | 2514             | 0.189             | 0.237          |
| Antenatal care coverage - at least once by skilled personnel  | 5.5a           | 0.6337             | 0.0243                       | 0.038                                    | 1.509                         | 1.229                                        | 602            | 593              | 0.585             | 0.682          |
| Antenatal care coverage – at least four times by any provider | 5.5b           | 0.2448             | 0.0196                       | 0.080                                    | 1.225                         | 1.107                                        | 602            | 593              | 0.206             | 0.284          |
| Skilled attendant at delivery                                 | 5.7            | 0.5368             | 0.0263                       | 0.049                                    | 1.643                         | 1.282                                        | 602            | 593              | 0.484             | 0.589          |
| Institutional deliveries                                      | 5.8            | 0.4936             | 0.0242                       | 0.049                                    | 1.391                         | 1.179                                        | 602            | 593              | 0.445             | 0.542          |
| Literacy rate among young women                               | 7.1            | 0.5875             | 0.0245                       | 0.042                                    | 4.578                         | 2.140                                        | 1989           | 1842             | 0.538             | 0.637          |
| Marriage before age 18                                        | 8.7            | 0.2905             | 0.0139                       | 0.048                                    | 2.955                         | 1.719                                        | 3279           | 3162             | 0.263             | 0.318          |
| Knowledge of mother- to-child transmission of HIV             | 9.3            | 0.1108             | 0.0094                       | 0.085                                    | 3.827                         | 1.956                                        | 4414           | 4240             | 0.092             | 0.130          |
| Accepting attitudes towards people living with HIV            | 9.4            | 0.1999             | 0.0163                       | 0.082                                    | 2.256                         | 1.502                                        | 1523           | 1352             | 0.167             | 0.233          |
| UNDER-5s                                                      |                |                    |                              |                                          |                               |                                              |                |                  |                   |                |
| Exclusive breastfeeding under 6 months                        | 2.6            | 0.3733             | 0.0302                       | 0.081                                    | 0.687                         | 0.829                                        | 183            | 177              | 0.313             | 0.434          |
| Age-appropriate breastfeeding                                 | 2.14           | 0.4612             | 0.0208                       | 0.045                                    | 1.140                         | 1.068                                        | 653            | 656              | 0.420             | 0.503          |
| Tuberculosis immunization coverage                            | -              | 0.5225             | 0.0323                       | 0.062                                    | 1.315                         | 1.147                                        | 317            | 316              | 0.458             | 0.587          |
| Received polio immunization                                   | -              | 0.5428             | 0.0304                       | 0.056                                    | 1.115                         | 1.056                                        | 306            | 301              | 0.482             | 0.604          |

**Table SE.3: Sampling errors: Urban areas**Standard errors, coefficients of variation, design effects (*deff*), square root of design effects (*deft*) and confidence intervals for selected indicators, Balochistan Province, Pakistan, 2010

|                                                                     | MICS Indicator | Value ( <i>r</i> ) | Standard error ( <i>se</i> ) | Coefficient of variation ( <i>se/r</i> ) | Design effect ( <i>deff</i> ) | Square root of design effect ( <i>deft</i> ) | Weighted count | Unweighted count | Confidence limits      |                        |
|---------------------------------------------------------------------|----------------|--------------------|------------------------------|------------------------------------------|-------------------------------|----------------------------------------------|----------------|------------------|------------------------|------------------------|
|                                                                     |                |                    |                              |                                          |                               |                                              |                |                  | <i>r</i> - 2 <i>se</i> | <i>r</i> + 2 <i>se</i> |
| Received DPT immunization                                           | -              | 0.2446             | 0.0291                       | 0.119                                    | 1.374                         | 1.172                                        | 297            | 300              | 0.186                  | 0.303                  |
| Received measles immunization                                       | -              | 0.3388             | 0.0309                       | 0.091                                    | 1.253                         | 1.119                                        | 291            | 294              | 0.277                  | 0.401                  |
| Received Hepatitis B immunization                                   | -              | 0.1449             | 0.0278                       | 0.192                                    | 1.785                         | 1.336                                        | 286            | 288              | 0.089                  | 0.200                  |
| Diarrhea in the previous 2 weeks                                    | -              | 0.1545             | 0.0094                       | 0.061                                    | 1.463                         | 1.210                                        | 2028           | 2149             | 0.136                  | 0.173                  |
| Illness with a cough in the previous 2 weeks                        | -              | 0.0356             | 0.0042                       | 0.119                                    | 1.120                         | 1.058                                        | 2028           | 2149             | 0.027                  | 0.044                  |
| Fever in last two weeks                                             | -              | 0.1672             | 0.0116                       | 0.069                                    | 2.076                         | 1.441                                        | 2028           | 2149             | 0.144                  | 0.190                  |
| Oral rehydration therapy with continued feeding                     | 3.8            | 0.6024             | 0.0247                       | 0.041                                    | 0.987                         | 0.993                                        | 313            | 388              | 0.553                  | 0.652                  |
| Antibiotic treatment of suspected pneumonia                         | 3.10           | 0.5229             | 0.0220                       | 0.042                                    | 0.146                         | 0.382                                        | 72             | 76               | 0.479                  | 0.567                  |
| Children under age 5 sleeping under insecticide-treated nets (ITNs) | 3.15           | 0.0060             | 0.0019                       | 0.309                                    | 1.230                         | 1.109                                        | 2002           | 2134             | 0.002                  | 0.010                  |
| Anti-malarial treatment of children under age 5                     | 3.18           | 0.1576             | 0.0151                       | 0.096                                    | 0.619                         | 0.787                                        | 339            | 363              | 0.127                  | 0.188                  |
| Support for learning                                                | 6.1            | 0.5243             | 0.0205                       | 0.039                                    | 1.782                         | 1.335                                        | 966            | 1060             | 0.483                  | 0.565                  |
| Attendance to early childhood education                             | 6.7            | 0.0602             | 0.0089                       | 0.148                                    | 1.486                         | 1.219                                        | 966            | 1060             | 0.042                  | 0.078                  |
| Birth registration                                                  | 8.1            | 0.3858             | 0.0201                       | 0.052                                    | 3.680                         | 1.918                                        | 2028           | 2149             | 0.345                  | 0.426                  |

**Table SE.4: Sampling errors: Rural areas**Standard errors, coefficients of variation, design effects (*deff*), square root of design effects (*deft*) and confidence intervals for selected indicators, Balochistan Province, Pakistan, 2010

|                                                               | MICS Indicator | Value ( <i>r</i> ) | Standard error ( <i>se</i> ) | Coefficient of variation ( <i>se/r</i> ) | Design effect ( <i>deff</i> ) | Square root of design effect ( <i>deft</i> ) | Weighted count | Unweighted count | Confidence limits      |                        |
|---------------------------------------------------------------|----------------|--------------------|------------------------------|------------------------------------------|-------------------------------|----------------------------------------------|----------------|------------------|------------------------|------------------------|
|                                                               |                |                    |                              |                                          |                               |                                              |                |                  | <i>r</i> - 2 <i>se</i> | <i>r</i> + 2 <i>se</i> |
| HOUSEHOLDS                                                    |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Iodized salt consumption                                      | 2.16           | 0.0806             | 0.0043                       | 0.054                                    | 2.225                         | 1.492                                        | 8,715          | 8,774            | 0.072                  | 0.089                  |
| Household availability of insecticide-treated nets (ITNs)     | 3.12           | 0.0300             | 0.0034                       | 0.113                                    | 3.572                         | 1.890                                        | 8,892          | 8,986            | 0.023                  | 0.037                  |
| HOUSEHOLD MEMBERS                                             |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Use of improved drinking water sources                        | 4.1            | 0.6863             | 0.0112                       | 0.016                                    | 5.256                         | 2.293                                        | 68,648         | 8,986            | 0.664                  | 0.709                  |
| Use of improved sanitation facilities                         | 4.3            | 0.5543             | 0.0121                       | 0.022                                    | 5.286                         | 2.299                                        | 68,648         | 8,986            | 0.530                  | 0.578                  |
| Secondary school net attendance ratio (adjusted)              | 7.5            | 0.2356             | 0.0088                       | 0.037                                    | 4.413                         | 2.101                                        | 10,793         | 10,373           | 0.218                  | 0.253                  |
| Child labour                                                  | 8.2            | 0.1882             | 0.0069                       | 0.037                                    | 6.462                         | 2.542                                        | 21,055         | 20,744           | 0.174                  | 0.202                  |
| WOMEN                                                         |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Pregnant women                                                | -              | 0.1460             | 0.0049                       | 0.034                                    | 2.609                         | 1.615                                        | 13,318         | 13,492           | 0.136                  | 0.156                  |
| Intermittent preventive treatment for malaria                 | 3.20           | 0.0337             | 0.0064                       | 0.191                                    | 0.708                         | 0.842                                        | 592            | 557              | 0.021                  | 0.047                  |
| Early childbearing                                            | 5.2            | 0.1210             | 0.0089                       | 0.073                                    | 1.643                         | 1.282                                        | 2,118          | 2,212            | 0.103                  | 0.139                  |
| Contraceptive prevalence                                      | 5.3            | 0.1270             | 0.0052                       | 0.041                                    | 2.105                         | 1.451                                        | 8,715          | 8,791            | 0.117                  | 0.137                  |
| Antenatal care coverage - at least once by skilled personnel  | 5.5a           | 0.3132             | 0.0159                       | 0.051                                    | 2.077                         | 1.441                                        | 1,889          | 1,765            | 0.281                  | 0.345                  |
| Antenatal care coverage - at least four times by any provider | 5.5b           | 0.0703             | 0.0078                       | 0.110                                    | 1.625                         | 1.275                                        | 1,889          | 1,765            | 0.055                  | 0.086                  |
| Skilled attendant at delivery                                 | 5.7            | 0.2100             | 0.0125                       | 0.060                                    | 1.661                         | 1.289                                        | 1,889          | 1,765            | 0.185                  | 0.235                  |
| Institutional deliveries                                      | 5.8            | 0.1621             | 0.0101                       | 0.062                                    | 1.331                         | 1.154                                        | 1,889          | 1,765            | 0.142                  | 0.182                  |
| Literacy rate among young women                               | 7.1            | 0.2303             | 0.0123                       | 0.054                                    | 4.509                         | 2.123                                        | 5,233          | 5,247            | 0.206                  | 0.255                  |
| Marriage before age 18                                        | 8.7            | 0.3645             | 0.0075                       | 0.021                                    | 2.560                         | 1.600                                        | 10,203         | 10,457           | 0.349                  | 0.380                  |
| Knowledge of mother- to-child transmission of HIV             | 9.3            | 0.0176             | 0.0020                       | 0.115                                    | 3.208                         | 1.791                                        | 13,318         | 13,492           | 0.014                  | 0.022                  |
| Accepting attitudes towards people living with HIV            | 9.4            | 0.1779             | 0.0180                       | 0.101                                    | 3.252                         | 1.803                                        | 1,556          | 1,475            | 0.142                  | 0.214                  |
| UNDER-5s                                                      |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Exclusive breastfeeding under 6 months                        | 2.6            | 0.4050             | 0.0181                       | 0.045                                    | 0.778                         | 0.882                                        | 566            | 574              | 0.369                  | 0.441                  |
| Age-appropriate breastfeeding                                 | 2.14           | 0.4380             | 0.0127                       | 0.029                                    | 1.370                         | 1.170                                        | 2,202          | 2,095            | 0.413                  | 0.463                  |
| Tuberculosis immunization coverage                            | -              | 0.2944             | 0.0189                       | 0.064                                    | 1.832                         | 1.353                                        | 1,120          | 1,068            | 0.257                  | 0.332                  |
| Received polio immunization                                   | -              | 0.4383             | 0.0234                       | 0.053                                    | 2.272                         | 1.507                                        | 1,104          | 1,025            | 0.392                  | 0.485                  |



**Table SE.4: Sampling errors: Rural areas**Standard errors, coefficients of variation, design effects (*deff*), square root of design effects (*deft*) and confidence intervals for selected indicators, Balochistan Province, Pakistan, 2010

|                                                                     | MICS Indicator | Value ( <i>r</i> ) | Standard error ( <i>se</i> ) | Coefficient of variation ( <i>se/r</i> ) | Design effect ( <i>deff</i> ) | Square root of design effect ( <i>deft</i> ) | Weighted count | Unweighted count | Confidence limits |                |
|---------------------------------------------------------------------|----------------|--------------------|------------------------------|------------------------------------------|-------------------------------|----------------------------------------------|----------------|------------------|-------------------|----------------|
|                                                                     |                |                    |                              |                                          |                               |                                              |                |                  | <i>r - 2se</i>    | <i>r + 2se</i> |
| Received DPT immunization                                           | -              | 0.0880             | 0.0124                       | 0.141                                    | 1.977                         | 1.406                                        | 1,082          | 1,036            | 0.063             | 0.113          |
| Received measles immunization                                       | -              | 0.1994             | 0.0171                       | 0.086                                    | 1.882                         | 1.372                                        | 1,073          | 1,024            | 0.165             | 0.234          |
| Received Hepatitis B immunization                                   | -              | 0.0466             | 0.0080                       | 0.171                                    | 1.455                         | 1.206                                        | 1,072          | 1,020            | 0.031             | 0.063          |
| Diarrhea in the previous 2 weeks                                    | -              | 0.2266             | 0.0072                       | 0.032                                    | 2.230                         | 1.493                                        | 7,706          | 7,585            | 0.212             | 0.241          |
| Illness with a cough in the previous 2 weeks                        | -              | 0.0469             | 0.0033                       | 0.071                                    | 1.888                         | 1.374                                        | 7,706          | 7,585            | 0.040             | 0.054          |
| Fever in last two weeks                                             | -              | 0.1793             | 0.0080                       | 0.045                                    | 3.282                         | 1.812                                        | 7,706          | 7,585            | 0.163             | 0.195          |
| Oral rehydration therapy with continued feeding                     | 3.8            | 0.5489             | 0.0155                       | 0.028                                    | 1.664                         | 1.290                                        | 1,746          | 1,714            | 0.518             | 0.580          |
| Antibiotic treatment of suspected pneumonia                         | 3.10           | 0.3434             | 0.0183                       | 0.053                                    | 0.514                         | 0.717                                        | 362            | 348              | 0.307             | 0.380          |
| Children under age 5 sleeping under insecticide-treated nets (ITNs) | 3.15           | 0.0066             | 0.0018                       | 0.270                                    | 3.639                         | 1.908                                        | 7,607          | 7,477            | 0.003             | 0.010          |
| Anti-malarial treatment of children under age 5                     | 3.18           | 0.2616             | 0.0216                       | 0.082                                    | 3.162                         | 1.778                                        | 1,382          | 1,313            | 0.218             | 0.305          |
| Support for learning                                                | 6.1            | 0.3438             | 0.0128                       | 0.037                                    | 2.857                         | 1.690                                        | 3,939          | 3,920            | 0.318             | 0.369          |
| Attendance to early childhood education                             | 6.7            | 0.0246             | 0.0031                       | 0.125                                    | 1.535                         | 1.239                                        | 3,939          | 3,920            | 0.018             | 0.031          |
| Birth registration                                                  | 8.1            | 0.1878             | 0.0090                       | 0.048                                    | 3.999                         | 2.000                                        | 7,706          | 7,585            | 0.170             | 0.206          |

**Table SE.5: Sampling errors: Quetta**Standard errors, coefficients of variation, design effects (*deff*), square root of design effects (*deft*) and confidence intervals for selected indicators, Balochistan Province, Pakistan, 2010

|                                                               | MICS Indicator | Value ( <i>r</i> ) | Standard error ( <i>se</i> ) | Coefficient of variation ( <i>se/r</i> ) | Design effect ( <i>deff</i> ) | Square root of design effect ( <i>deft</i> ) | Weighted count | Unweighted count | Confidence limits |                |
|---------------------------------------------------------------|----------------|--------------------|------------------------------|------------------------------------------|-------------------------------|----------------------------------------------|----------------|------------------|-------------------|----------------|
|                                                               |                |                    |                              |                                          |                               |                                              |                |                  | <i>r - 2se</i>    | <i>r + 2se</i> |
| HOUSEHOLDS                                                    |                |                    |                              |                                          |                               |                                              |                |                  |                   |                |
| Iodized salt consumption                                      | 2.16           | 0.0983             | 0.0078                       | 0.079                                    | 1.450                         | 1.204                                        | 2,605          | 2,126            | 0.083             | 0.114          |
| Household availability of insecticide-treated nets (ITNs)     | 3.12           | 0.0363             | 0.0041                       | 0.112                                    | 1.049                         | 1.024                                        | 2,715          | 2,220            | 0.028             | 0.044          |
| HOUSEHOLD MEMBERS                                             |                |                    |                              |                                          |                               |                                              |                |                  |                   |                |
| Use of improved drinking water sources                        | 4.1            | 0.8921             | 0.0144                       | 0.016                                    | 4.776                         | 2.185                                        | 21,966         | 2,220            | 0.863             | 0.921          |
| Use of improved sanitation facilities                         | 4.3            | 0.7437             | 0.0214                       | 0.029                                    | 5.309                         | 2.304                                        | 21,966         | 2,220            | 0.701             | 0.786          |
| Secondary school net attendance ratio (adjusted)              | 7.5            | 0.3054             | 0.0179                       | 0.059                                    | 4.313                         | 2.077                                        | 3,560          | 2,849            | 0.270             | 0.341          |
| Child labour                                                  | 8.2            | 0.1010             | 0.0073                       | 0.073                                    | 2.871                         | 1.694                                        | 5,932          | 4,856            | 0.086             | 0.116          |
| WOMEN                                                         |                |                    |                              |                                          |                               |                                              |                |                  |                   |                |
| Pregnant women                                                | -              | 0.1069             | 0.0076                       | 0.071                                    | 2.303                         | 1.518                                        | 4,852          | 3,812            | 0.092             | 0.122          |
| Intermittent preventive treatment for malaria                 | 3.20           | 0.0139             | 0.0063                       | 0.456                                    | 0.751                         | 0.866                                        | 354            | 258              | 0.001             | 0.027          |
| Early childbearing                                            | 5.2            | 0.0646             | 0.0096                       | 0.149                                    | 1.098                         | 1.048                                        | 931            | 717              | 0.045             | 0.084          |
| Contraceptive prevalence                                      | 5.3            | 0.2108             | 0.0132                       | 0.063                                    | 2.157                         | 1.469                                        | 2,650          | 2,061            | 0.184             | 0.237          |
| Antenatal care coverage - at least once by skilled personnel  | 5.5a           | 0.4471             | 0.0246                       | 0.055                                    | 1.506                         | 1.227                                        | 792            | 614              | 0.398             | 0.496          |
| Antenatal care coverage – at least four times by any provider | 5.5b           | 0.1674             | 0.0141                       | 0.084                                    | 0.871                         | 0.933                                        | 792            | 614              | 0.139             | 0.196          |
| Skilled attendant at delivery                                 | 5.7            | 0.3848             | 0.0227                       | 0.059                                    | 1.334                         | 1.155                                        | 792            | 614              | 0.339             | 0.430          |
| Institutional deliveries                                      | 5.8            | 0.3671             | 0.0199                       | 0.054                                    | 1.045                         | 1.022                                        | 792            | 614              | 0.327             | 0.407          |
| Literacy rate among young women                               | 7.1            | 0.3911             | 0.0242                       | 0.062                                    | 4.402                         | 2.098                                        | 2,287          | 1,785            | 0.343             | 0.440          |
| Marriage before age 18                                        | 8.7            | 0.2397             | 0.0137                       | 0.057                                    | 2.818                         | 1.679                                        | 3,495          | 2,744            | 0.212             | 0.267          |
| Knowledge of mother- to-child transmission of HIV             | 9.3            | 0.0736             | 0.0086                       | 0.117                                    | 4.140                         | 2.035                                        | 4,852          | 3,812            | 0.056             | 0.091          |
| Accepting attitudes towards people living with HIV            | 9.4            | 0.2442             | 0.0237                       | 0.097                                    | 1.771                         | 1.331                                        | 910            | 585              | 0.197             | 0.292          |
| UNDER-5s                                                      |                |                    |                              |                                          |                               |                                              |                |                  |                   |                |
| Exclusive breastfeeding under 6 months                        | 2.6            | 0.3564             | 0.0285                       | 0.080                                    | 0.671                         | 0.819                                        | 244            | 190              | 0.299             | 0.414          |
| Age-appropriate breastfeeding                                 | 2.14           | 0.4681             | 0.0193                       | 0.041                                    | 1.019                         | 1.010                                        | 875            | 679              | 0.429             | 0.507          |
| Tuberculosis immunization coverage                            | -              | 0.2852             | 0.0308                       | 0.108                                    | 1.560                         | 1.249                                        | 435            | 336              | 0.224             | 0.347          |
| Received polio immunization                                   | -              | 0.4942             | 0.0386                       | 0.078                                    | 2.041                         | 1.429                                        | 444            | 344              | 0.417             | 0.571          |

**Table SE.5: Sampling errors: Quetta**Standard errors, coefficients of variation, design effects (*deff*), square root of design effects (*deft*) and confidence intervals for selected indicators, Balochistan Province, Pakistan, 2010

|                                                                     | MICS Indicator | Value ( <i>r</i> ) | Standard error ( <i>se</i> ) | Coefficient of variation ( <i>se/r</i> ) | Design effect ( <i>deff</i> ) | Square root of design effect ( <i>deft</i> ) | Weighted count | Unweighted count | Confidence limits |                |
|---------------------------------------------------------------------|----------------|--------------------|------------------------------|------------------------------------------|-------------------------------|----------------------------------------------|----------------|------------------|-------------------|----------------|
|                                                                     |                |                    |                              |                                          |                               |                                              |                |                  | <i>r - 2se</i>    | <i>r + 2se</i> |
| Received DPT immunization                                           | -              | 0.0640             | 0.0185                       | 0.290                                    | 1.815                         | 1.347                                        | 407            | 317              | 0.027             | 0.101          |
| Received measles immunization                                       | -              | 0.1805             | 0.0257                       | 0.142                                    | 1.383                         | 1.176                                        | 400            | 311              | 0.129             | 0.232          |
| Received Hepatitis B immunization                                   | -              | 0.0459             | 0.0167                       | 0.365                                    | 1.993                         | 1.412                                        | 404            | 312              | 0.012             | 0.079          |
| Diarrhea in the previous 2 weeks                                    | -              | 0.1435             | 0.0113                       | 0.079                                    | 2.133                         | 1.461                                        | 2,548          | 2,040            | 0.121             | 0.166          |
| Illness with a cough in the previous 2 weeks                        | -              | 0.0407             | 0.0047                       | 0.115                                    | 1.140                         | 1.068                                        | 2,548          | 2,040            | 0.031             | 0.050          |
| Fever in last two weeks                                             | -              | 0.1271             | 0.0090                       | 0.071                                    | 1.504                         | 1.227                                        | 2,548          | 2,040            | 0.109             | 0.145          |
| Oral rehydration therapy with continued feeding                     | 3.8            | 0.5227             | 0.0268                       | 0.051                                    | 0.875                         | 0.935                                        | 366            | 304              | 0.469             | 0.576          |
| Antibiotic treatment of suspected pneumonia                         | 3.10           | 0.3727             | 0.0200                       | 0.054                                    | 0.133                         | 0.364                                        | 104            | 79               | 0.333             | 0.413          |
| Children under age 5 sleeping under insecticide-treated nets (ITNs) | 3.15           | 0.0051             | 0.0019                       | 0.362                                    | 1.364                         | 1.168                                        | 2,508          | 2,018            | 0.001             | 0.009          |
| Anti-malarial treatment of children under age 5                     | 3.18           | 0.0351             | 0.0090                       | 0.255                                    | 0.591                         | 0.769                                        | 324            | 250              | 0.017             | 0.053          |
| Support for learning                                                | 6.1            | 0.3221             | 0.0253                       | 0.078                                    | 2.766                         | 1.663                                        | 1,171          | 948              | 0.272             | 0.373          |
| Attendance to early childhood education                             | 6.7            | 0.0236             | 0.0049                       | 0.210                                    | 1.007                         | 1.004                                        | 1,171          | 948              | 0.014             | 0.033          |
| Birth registration                                                  | 8.1            | 0.2423             | 0.0180                       | 0.074                                    | 3.582                         | 1.893                                        | 2,548          | 2,040            | 0.206             | 0.278          |

**Table SE.6: Sampling errors: Kalat**Standard errors, coefficients of variation, design effects (*deff*), square root of design effects (*deft*) and confidence intervals for selected indicators, Balochistan Province, Pakistan, 2010

|                                                               | MICS Indicator | Value ( <i>r</i> ) | Standard error ( <i>se</i> ) | Coefficient of variation ( <i>se/r</i> ) | Design effect ( <i>deff</i> ) | Square root of design effect ( <i>deft</i> ) | Weighted count | Unweighted count | Confidence limits      |                        |
|---------------------------------------------------------------|----------------|--------------------|------------------------------|------------------------------------------|-------------------------------|----------------------------------------------|----------------|------------------|------------------------|------------------------|
|                                                               |                |                    |                              |                                          |                               |                                              |                |                  | <i>r</i> - 2 <i>se</i> | <i>r</i> + 2 <i>se</i> |
| HOUSEHOLDS                                                    |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Iodized salt consumption                                      | 2.16           | 0.0714             | 0.0077                       | 0.108                                    | 2.443                         | 1.563                                        | 2791           | 2718             | 0.056                  | 0.087                  |
| Household availability of insecticide-treated nets (ITNs)     | 3.12           | 0.0310             | 0.0061                       | 0.198                                    | 3.493                         | 1.869                                        | 2835           | 2780             | 0.019                  | 0.043                  |
| HOUSEHOLD MEMBERS                                             |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Use of improved drinking water sources                        | 4.1            | 0.7966             | 0.0208                       | 0.026                                    | 7.391                         | 2.719                                        | 19,510         | 2,780            | 0.755                  | 0.838                  |
| Use of improved sanitation facilities                         | 4.3            | 0.5807             | 0.0261                       | 0.045                                    | 7.779                         | 2.789                                        | 19510          | 2780             | 0.528                  | 0.633                  |
| Secondary school net attendance ratio (adjusted)              | 7.5            | 0.1879             | 0.0157                       | 0.083                                    | 4.455                         | 2.111                                        | 2,997          | 2,776            | 0.157                  | 0.219                  |
| Child labour                                                  | 8.2            | 0.2505             | 0.0149                       | 0.059                                    | 6.622                         | 2.573                                        | 5,890          | 5,627            | 0.221                  | 0.280                  |
| WOMEN                                                         |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Pregnant women                                                | -              | 0.1267             | 0.0075                       | 0.059                                    | 1.946                         | 1.395                                        | 3,848          | 3,793            | 0.112                  | 0.142                  |
| Intermittent preventive treatment for malaria                 | 3.20           | 0.0165             | 0.0093                       | 0.563                                    | 0.901                         | 0.949                                        | 170            | 170              | 0.000                  | 0.035                  |
| Early childbearing                                            | 5.2            | 0.1424             | 0.0198                       | 0.139                                    | 2.101                         | 1.450                                        | 645            | 653              | 0.103                  | 0.182                  |
| Contraceptive prevalence                                      | 5.3            | 0.1168             | 0.0076                       | 0.065                                    | 1.396                         | 1.181                                        | 2,584          | 2,525            | 0.102                  | 0.132                  |
| Antenatal care coverage - at least once by skilled personnel  | 5.5a           | 0.3004             | 0.0226                       | 0.075                                    | 1.302                         | 1.141                                        | 565            | 538              | 0.255                  | 0.346                  |
| Antenatal care coverage – at least four times by any provider | 5.5b           | 0.0749             | 0.0117                       | 0.157                                    | 1.068                         | 1.033                                        | 565            | 538              | 0.051                  | 0.098                  |
| Skilled attendant at delivery                                 | 5.7            | 0.1752             | 0.0214                       | 0.122                                    | 1.698                         | 1.303                                        | 565            | 538              | 0.132                  | 0.218                  |
| Institutional deliveries                                      | 5.8            | 0.1136             | 0.0162                       | 0.142                                    | 1.392                         | 1.180                                        | 565            | 538              | 0.081                  | 0.146                  |
| Literacy rate among young women                               | 7.1            | 0.2547             | 0.0223                       | 0.088                                    | 3.785                         | 1.946                                        | 1,469          | 1,440            | 0.210                  | 0.299                  |
| Marriage before age 18                                        | 8.7            | 0.3514             | 0.0137                       | 0.039                                    | 2.475                         | 1.573                                        | 3,024          | 3,006            | 0.324                  | 0.379                  |
| Knowledge of mother- to-child transmission of HIV             | 9.3            | 0.0281             | 0.0052                       | 0.186                                    | 3.801                         | 1.950                                        | 3,848          | 3,793            | 0.018                  | 0.039                  |
| Accepting attitudes towards people living with HIV            | 9.4            | 0.2222             | 0.0216                       | 0.097                                    | 1.495                         | 1.223                                        | 502            | 553              | 0.179                  | 0.266                  |
| UNDER-5s                                                      |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Exclusive breastfeeding under 6 months                        | 2.6            | 0.4792             | 0.0259                       | 0.054                                    | 0.405                         | 0.636                                        | 151            | 152              | 0.427                  | 0.531                  |
| Age-appropriate breastfeeding                                 | 2.14           | 0.4690             | 0.0246                       | 0.052                                    | 1.476                         | 1.215                                        | 639            | 609              | 0.420                  | 0.518                  |
| Tuberculosis immunization coverage                            | -              | 0.3509             | 0.0254                       | 0.072                                    | 0.820                         | 0.905                                        | 313            | 291              | 0.300                  | 0.402                  |
| Received polio immunization                                   | -              | 0.4256             | 0.0301                       | 0.071                                    | 1.089                         | 1.043                                        | 320            | 294              | 0.365                  | 0.486                  |

**Table SE.6: Sampling errors: Kalat**Standard errors, coefficients of variation, design effects (*deff*), square root of design effects (*deft*) and confidence intervals for selected indicators, Balochistan Province, Pakistan, 2010

|                                                                     | MICS Indicator | Value ( <i>r</i> ) | Standard error ( <i>se</i> ) | Coefficient of variation ( <i>se/r</i> ) | Design effect ( <i>deff</i> ) | Square root of design effect ( <i>deft</i> ) | Weighted count | Unweighted count | Confidence limits |                |
|---------------------------------------------------------------------|----------------|--------------------|------------------------------|------------------------------------------|-------------------------------|----------------------------------------------|----------------|------------------|-------------------|----------------|
|                                                                     |                |                    |                              |                                          |                               |                                              |                |                  | <i>r - 2se</i>    | <i>r + 2se</i> |
| Received DPT immunization                                           | -              | 0.1341             | 0.0164                       | 0.123                                    | 0.661                         | 0.813                                        | 302            | 285              | 0.101             | 0.167          |
| Received measles immunization                                       | -              | 0.2745             | 0.0209                       | 0.076                                    | 0.615                         | 0.784                                        | 304            | 282              | 0.233             | 0.316          |
| Received Hepatitis B immunization                                   | -              | 0.0758             | 0.0145                       | 0.192                                    | 0.836                         | 0.914                                        | 303            | 278              | 0.047             | 0.105          |
| Diarrhea in the previous 2 weeks                                    | -              | 0.2337             | 0.0130                       | 0.056                                    | 1.898                         | 1.378                                        | 2,054          | 2,012            | 0.208             | 0.260          |
| Illness with a cough in the previous 2 weeks                        | -              | 0.0703             | 0.0086                       | 0.122                                    | 2.260                         | 1.503                                        | 2,054          | 2,012            | 0.053             | 0.087          |
| Fever in last two weeks                                             | -              | 0.1567             | 0.0134                       | 0.086                                    | 2.745                         | 1.657                                        | 2,054          | 2,012            | 0.130             | 0.184          |
| Oral rehydration therapy with continued feeding                     | 3.8            | 0.5476             | 0.0251                       | 0.046                                    | 1.064                         | 1.032                                        | 480            | 419              | 0.497             | 0.598          |
| Antibiotic treatment of suspected pneumonia                         | 3.10           | 0.3618             | 0.0356                       | 0.099                                    | 0.754                         | 0.868                                        | 144            | 138              | 0.291             | 0.433          |
| Children under age 5 sleeping under insecticide-treated nets (ITNs) | 3.15           | 0.0048             | 0.0017                       | 0.350                                    | 1.192                         | 1.092                                        | 2,044          | 1,997            | 0.001             | 0.008          |
| Anti-malarial treatment of children under age 5                     | 3.18           | 0.1175             | 0.0145                       | 0.124                                    | 0.662                         | 0.813                                        | 322            | 326              | 0.088             | 0.147          |
| Support for learning                                                | 6.1            | 0.4128             | 0.0226                       | 0.055                                    | 2.165                         | 1.471                                        | 1,031          | 1,031            | 0.368             | 0.458          |
| Attendance to early childhood education                             | 6.7            | 0.0258             | 0.0065                       | 0.253                                    | 1.748                         | 1.322                                        | 1,031          | 1,031            | 0.013             | 0.039          |
| Birth registration                                                  | 8.1            | 0.1745             | 0.0142                       | 0.082                                    | 2.834                         | 1.684                                        | 2,054          | 2,012            | 0.146             | 0.203          |

**Table SE.7: Sampling errors: Sibi**Standard errors, coefficients of variation, design effects (*deff*), square root of design effects (*deft*) and confidence intervals for selected indicators, Balochistan Province, Pakistan, 2010

|                                                               | MICS Indicator | Value ( <i>r</i> ) | Standard error ( <i>se</i> ) | Coefficient of variation ( <i>se/r</i> ) | Design effect ( <i>deff</i> ) | Square root of design effect ( <i>deft</i> ) | Weighted count | Unweighted count | Confidence limits |                |
|---------------------------------------------------------------|----------------|--------------------|------------------------------|------------------------------------------|-------------------------------|----------------------------------------------|----------------|------------------|-------------------|----------------|
|                                                               |                |                    |                              |                                          |                               |                                              |                |                  | <i>r - 2se</i>    | <i>r + 2se</i> |
| HOUSEHOLDS                                                    |                |                    |                              |                                          |                               |                                              |                |                  |                   |                |
| Iodized salt consumption                                      | 2.16           | 0.0464             | 0.0064                       | 0.139                                    | 1.583                         | 1.258                                        | 984            | 1,693            | 0.033             | 0.059          |
| Household availability of insecticide-treated nets (ITNs)     | 3.12           | 0.0076             | 0.0024                       | 0.314                                    | 1.300                         | 1.140                                        | 997            | 1,724            | 0.003             | 0.012          |
| HOUSEHOLD MEMBERS                                             |                |                    |                              |                                          |                               |                                              |                |                  |                   |                |
| Use of improved drinking water sources                        | 4.1            | 0.7595             | 0.0177                       | 0.023                                    | 2.966                         | 1.722                                        | 8,128          | 1,724            | 0.724             | 0.795          |
| Use of improved sanitation facilities                         | 4.3            | 0.6668             | 0.0225                       | 0.034                                    | 3.925                         | 1.981                                        | 8128           | 1724             | 0.622             | 0.712          |
| Secondary school net attendance ratio (adjusted)              | 7.5            | 0.2862             | 0.0123                       | 0.043                                    | 1.528                         | 1.236                                        | 1,246          | 2,071            | 0.262             | 0.311          |
| Child labour                                                  | 8.2            | 0.2585             | 0.0208                       | 0.081                                    | 9.989                         | 3.161                                        | 2,757          | 4,410            | 0.217             | 0.300          |
| WOMEN                                                         |                |                    |                              |                                          |                               |                                              |                |                  |                   |                |
| Pregnant women                                                | -              | 0.2278             | 0.0169                       | 0.074                                    | 3.958                         | 1.990                                        | 1,236          | 2435             | 0.194             | 0.262          |
| Intermittent preventive treatment for malaria                 | 3.20           | 0.0423             | 0.0243                       | 0.576                                    | 2.033                         | 1.426                                        | 80             | 140              | 0.000             | 0.091          |
| Early childbearing                                            | 5.2            | 0.0959             | 0.0188                       | 0.196                                    | 1.392                         | 1.180                                        | 137            | 343              | 0.058             | 0.133          |
| Contraceptive prevalence                                      | 5.3            | 0.0636             | 0.0078                       | 0.123                                    | 1.751                         | 1.323                                        | 912            | 1,697            | 0.048             | 0.079          |
| Antenatal care coverage - at least once by skilled personnel  | 5.5a           | 0.4810             | 0.0377                       | 0.078                                    | 1.864                         | 1.365                                        | 166            | 328              | 0.406             | 0.556          |
| Antenatal care coverage – at least four times by any provider | 5.5b           | 0.1233             | 0.0286                       | 0.232                                    | 2.467                         | 1.571                                        | 166            | 328              | 0.066             | 0.180          |
| Skilled attendant at delivery                                 | 5.7            | 0.1730             | 0.0296                       | 0.171                                    | 2.004                         | 1.416                                        | 166            | 328              | 0.114             | 0.232          |
| Institutional deliveries                                      | 5.8            | 0.1612             | 0.0273                       | 0.169                                    | 1.799                         | 1.341                                        | 166            | 328              | 0.107             | 0.216          |
| Literacy rate among young women                               | 7.1            | 0.2584             | 0.0318                       | 0.123                                    | 4.283                         | 2.070                                        | 336            | 813              | 0.195             | 0.322          |
| Marriage before age 18                                        | 8.7            | 0.5833             | 0.0193                       | 0.033                                    | 3.025                         | 1.739                                        | 1,037          | 1,965            | 0.545             | 0.622          |
| Knowledge of mother- to-child transmission of HIV             | 9.3            | 0.0166             | 0.0041                       | 0.249                                    | 2.551                         | 1.597                                        | 1,236          | 2,435            | 0.008             | 0.025          |
| Accepting attitudes towards people living with HIV            | 9.4            | 0.0354             | 0.0133                       | 0.375                                    | 2.087                         | 1.445                                        | 275            | 406              | 0.009             | 0.062          |
| UNDER-5s                                                      |                |                    |                              |                                          |                               |                                              |                |                  |                   |                |
| Exclusive breastfeeding under 6 months                        | 2.6            | 0.3418             | 0.0295                       | 0.086                                    | 0.297                         | 0.545                                        | 26             | 78               | 0.283             | 0.401          |
| Age-appropriate breastfeeding                                 | 2.14           | 0.4262             | 0.0426                       | 0.100                                    | 2.599                         | 1.612                                        | 170            | 351              | 0.341             | 0.511          |
| Tuberculosis immunization coverage                            | -              | 0.1366             | 0.0203                       | 0.149                                    | 0.722                         | 0.850                                        | 114            | 207              | 0.096             | 0.177          |
| Received polio immunization                                   | -              | 0.2547             | 0.0290                       | 0.114                                    | 0.942                         | 0.971                                        | 117            | 213              | 0.197             | 0.313          |

**Table SE.7: Sampling errors: Sibi**Standard errors, coefficients of variation, design effects (*deff*), square root of design effects (*deft*) and confidence intervals for selected indicators, Balochistan Province, Pakistan, 2010

|                                                                     | MICS Indicator | Value ( <i>r</i> ) | Standard error ( <i>se</i> ) | Coefficient of variation ( <i>se/r</i> ) | Design effect ( <i>deff</i> ) | Square root of design effect ( <i>deft</i> ) | Weighted count | Unweighted count | Confidence limits |                |
|---------------------------------------------------------------------|----------------|--------------------|------------------------------|------------------------------------------|-------------------------------|----------------------------------------------|----------------|------------------|-------------------|----------------|
|                                                                     |                |                    |                              |                                          |                               |                                              |                |                  | <i>r - 2se</i>    | <i>r + 2se</i> |
| Received DPT immunization                                           | -              | 0.0387             | 0.0081                       | 0.210                                    | 0.356                         | 0.596                                        | 112            | 202              | 0.022             | 0.055          |
| Received measles immunization                                       | -              | 0.1036             | 0.0167                       | 0.161                                    | 0.604                         | 0.777                                        | 113            | 203              | 0.070             | 0.137          |
| Received Hepatitis B immunization                                   | -              | 0.0297             | 0.0101                       | 0.341                                    | 0.728                         | 0.853                                        | 113            | 205              | 0.009             | 0.050          |
| Diarrhea in the previous 2 weeks                                    | -              | 0.4402             | 0.0202                       | 0.046                                    | 2.327                         | 1.525                                        | 798            | 1,407            | 0.400             | 0.481          |
| Illness with a cough in the previous 2 weeks                        | -              | 0.0209             | 0.0042                       | 0.202                                    | 1.223                         | 1.106                                        | 798            | 1,407            | 0.012             | 0.029          |
| Fever in last two weeks                                             | -              | 0.3220             | 0.0179                       | 0.056                                    | 2.072                         | 1.440                                        | 798            | 1,407            | 0.286             | 0.358          |
| Oral rehydration therapy with continued feeding                     | 3.8            | 0.5900             | 0.0342                       | 0.058                                    | 2.487                         | 1.577                                        | 351            | 515              | 0.522             | 0.658          |
| Antibiotic treatment of suspected pneumonia                         | 3.10           | 0.2958             | 0.0163                       | 0.055                                    | 0.061                         | 0.248                                        | 17             | 49               | 0.263             | 0.328          |
| Children under age 5 sleeping under insecticide-treated nets (ITNs) | 3.15           | 0.0029             | 0.0017                       | 0.579                                    | 1.308                         | 1.144                                        | 755            | 1,358            | 0.000             | 0.006          |
| Anti-malarial treatment of children under age 5                     | 3.18           | 0.4925             | 0.0592                       | 0.120                                    | 5.001                         | 2.236                                        | 257            | 358              | 0.374             | 0.611          |
| Support for learning                                                | 6.1            | 0.3066             | 0.0372                       | 0.121                                    | 4.972                         | 2.230                                        | 454            | 764              | 0.232             | 0.381          |
| Attendance to early childhood education                             | 6.7            | 0.0113             | 0.0037                       | 0.332                                    | 0.961                         | 0.980                                        | 454            | 764              | 0.004             | 0.019          |
| Birth registration                                                  | 8.1            | 0.1353             | 0.0187                       | 0.139                                    | 4.224                         | 2.055                                        | 798            | 1,407            | 0.098             | 0.173          |

**Table SE.8: Sampling errors: Zhob**Standard errors, coefficients of variation, design effects (*deff*), square root of design effects (*deft*) and confidence intervals for selected indicators, Balochistan Province, Pakistan, 2010

|                                                               | MICS Indicator | Value ( <i>r</i> ) | Standard error ( <i>se</i> ) | Coefficient of variation ( <i>se/r</i> ) | Design effect ( <i>deff</i> ) | Square root of design effect ( <i>deft</i> ) | Weighted count | Unweighted count | Confidence limits |                |
|---------------------------------------------------------------|----------------|--------------------|------------------------------|------------------------------------------|-------------------------------|----------------------------------------------|----------------|------------------|-------------------|----------------|
|                                                               |                |                    |                              |                                          |                               |                                              |                |                  | <i>r - 2se</i>    | <i>r + 2se</i> |
| HOUSEHOLDS                                                    |                |                    |                              |                                          |                               |                                              |                |                  |                   |                |
| Iodized salt consumption                                      | 2.16           | 0.0369             | 0.0053                       | 0.145                                    | 1.759                         | 1.326                                        | 1629           | 2188             | 0.026             | 0.048          |
| Household availability of insecticide-treated nets (ITNs)     | 3.12           | 0.0138             | 0.0041                       | 0.295                                    | 2.744                         | 1.656                                        | 1677           | 2256             | 0.006             | 0.022          |
| HOUSEHOLD MEMBERS                                             |                |                    |                              |                                          |                               |                                              |                |                  |                   |                |
| Use of improved drinking water sources                        | 4.1            | 0.6786             | 0.0256                       | 0.038                                    | 6.762                         | 2.600                                        | 13,430         | 2,256            | 0.627             | 0.730          |
| Use of improved sanitation facilities                         | 4.3            | 0.4147             | 0.0224                       | 0.054                                    | 4.669                         | 2.161                                        | 13430          | 2256             | 0.370             | 0.460          |
| Secondary school net attendance ratio (adjusted)              | 7.5            | 0.1649             | 0.0106                       | 0.064                                    | 2.129                         | 1.459                                        | 1,980          | 2,621            | 0.144             | 0.186          |
| Child labour                                                  | 8.2            | 0.1823             | 0.0139                       | 0.076                                    | 7.189                         | 2.681                                        | 4,168          | 5,552            | 0.154             | 0.210          |
| WOMEN                                                         |                |                    |                              |                                          |                               |                                              |                |                  |                   |                |
| Pregnant women                                                | -              | 0.1117             | 0.0088                       | 0.079                                    | 2.767                         | 1.663                                        | 2,499          | 3,539            | 0.094             | 0.129          |
| Intermittent preventive treatment for malaria                 | 3.20           | 0.0046             | 0.0002                       | 0.039                                    | 0.001                         | 0.031                                        | 91             | 133              | 0.004             | 0.005          |
| Early childbearing                                            | 5.2            | 0.1082             | 0.0139                       | 0.129                                    | 1.184                         | 1.088                                        | 412            | 590              | 0.080             | 0.136          |
| Contraceptive prevalence                                      | 5.3            | 0.0309             | 0.0035                       | 0.114                                    | 0.987                         | 0.993                                        | 1,665          | 2,364            | 0.024             | 0.038          |
| Antenatal care coverage - at least once by skilled personnel  | 5.5a           | 0.3178             | 0.0321                       | 0.101                                    | 1.822                         | 1.350                                        | 286            | 385              | 0.254             | 0.382          |
| Antenatal care coverage - at least four times by any provider | 5.5b           | 0.0219             | 0.0056                       | 0.257                                    | 0.565                         | 0.752                                        | 286            | 385              | 0.011             | 0.033          |
| Skilled attendant at delivery                                 | 5.7            | 0.2231             | 0.0277                       | 0.124                                    | 1.698                         | 1.303                                        | 286            | 385              | 0.168             | 0.278          |
| Institutional deliveries                                      | 5.8            | 0.1407             | 0.0193                       | 0.137                                    | 1.181                         | 1.087                                        | 286            | 385              | 0.102             | 0.179          |
| Literacy rate among young women                               | 7.1            | 0.1614             | 0.0145                       | 0.090                                    | 2.083                         | 1.443                                        | 962            | 1,344            | 0.132             | 0.190          |
| Marriage before age 18                                        | 8.7            | 0.3460             | 0.0143                       | 0.041                                    | 2.515                         | 1.586                                        | 1,950          | 2,785            | 0.317             | 0.375          |
| Knowledge of mother- to-child transmission of HIV             | 9.3            | 0.0044             | 0.0011                       | 0.247                                    | 0.957                         | 0.978                                        | 2,499          | 3,539            | 0.002             | 0.007          |
| Accepting attitudes towards people living with HIV            | 9.4            | 0.2334             | 0.0460                       | 0.197                                    | 3.782                         | 1.945                                        | 184            | 321              | 0.141             | 0.325          |
| UNDER-5s                                                      |                |                    |                              |                                          |                               |                                              |                |                  |                   |                |
| Exclusive breastfeeding under 6 months                        | 2.6            | 0.3815             | 0.0263                       | 0.069                                    | 0.529                         | 0.727                                        | 125            | 181              | 0.329             | 0.434          |
| Age-appropriate breastfeeding                                 | 2.14           | 0.4677             | 0.0242                       | 0.052                                    | 1.345                         | 1.160                                        | 395            | 571              | 0.419             | 0.516          |
| Tuberculosis immunization coverage                            | -              | 0.1858             | 0.0254                       | 0.137                                    | 1.212                         | 1.101                                        | 191            | 286              | 0.135             | 0.237          |
| Received polio immunization                                   | -              | 0.4605             | 0.0503                       | 0.109                                    | 2.145                         | 1.465                                        | 147            | 212              | 0.360             | 0.561          |



**Table SE.8: Sampling errors: Zhob**Standard errors, coefficients of variation, design effects (*deff*), square root of design effects (*deft*) and confidence intervals for selected indicators, Balochistan Province, Pakistan, 2010

|                                                                     | MICS Indicator | Value ( <i>r</i> ) | Standard error ( <i>se</i> ) | Coefficient of variation ( <i>se/r</i> ) | Design effect ( <i>deff</i> ) | Square root of design effect ( <i>deft</i> ) | Weighted count | Unweighted count | Confidence limits |                |
|---------------------------------------------------------------------|----------------|--------------------|------------------------------|------------------------------------------|-------------------------------|----------------------------------------------|----------------|------------------|-------------------|----------------|
|                                                                     |                |                    |                              |                                          |                               |                                              |                |                  | <i>r - 2se</i>    | <i>r + 2se</i> |
| Received DPT immunization                                           | -              | 0.0315             | 0.0145                       | 0.460                                    | 1.894                         | 1.376                                        | 184            | 276              | 0.003             | 0.060          |
| Received measles immunization                                       | -              | 0.1282             | 0.0221                       | 0.173                                    | 1.178                         | 1.085                                        | 179            | 270              | 0.084             | 0.172          |
| Received Hepatitis B immunization                                   | -              | 0.0147             | 0.0086                       | 0.582                                    | 1.354                         | 1.164                                        | 178            | 268              | 0.000             | 0.032          |
| Diarrhea in the previous 2 weeks                                    | -              | 0.1551             | 0.0101                       | 0.065                                    | 1.761                         | 1.327                                        | 1,608          | 2,278            | 0.135             | 0.175          |
| Illness with a cough in the previous 2 weeks                        | -              | 0.0380             | 0.0059                       | 0.156                                    | 2.184                         | 1.478                                        | 1,608          | 2,278            | 0.026             | 0.050          |
| Fever in last two weeks                                             | -              | 0.1017             | 0.0095                       | 0.094                                    | 2.270                         | 1.507                                        | 1,608          | 2,278            | 0.083             | 0.121          |
| Oral rehydration therapy with continued feeding                     | 3.8            | 0.6064             | 0.0358                       | 0.059                                    | 1.942                         | 1.394                                        | 249            | 362              | 0.535             | 0.678          |
| Antibiotic treatment of suspected pneumonia                         | 3.10           | 0.1633             | 0.0402                       | 0.246                                    | 0.924                         | 0.961                                        | 61             | 79               | 0.083             | 0.244          |
| Children under age 5 sleeping under insecticide-treated nets (ITNs) | 3.15           | 0.0024             | 0.0017                       | 0.711                                    | 2.794                         | 1.671                                        | 1,596          | 2,259            | 0.000             | 0.006          |
| Anti-malarial treatment of children under age 5                     | 3.18           | 0.1721             | 0.0257                       | 0.149                                    | 1.129                         | 1.063                                        | 164            | 245              | 0.121             | 0.223          |
| Support for learning                                                | 6.1            | 0.1793             | 0.0152                       | 0.085                                    | 1.807                         | 1.344                                        | 806            | 1,158            | 0.149             | 0.210          |
| Attendance to early childhood education                             | 6.7            | 0.0281             | 0.0054                       | 0.191                                    | 1.219                         | 1.104                                        | 806            | 1,158            | 0.017             | 0.039          |
| Birth registration                                                  | 8.1            | 0.0515             | 0.0066                       | 0.128                                    | 2.015                         | 1.419                                        | 1,608          | 2,278            | 0.038             | 0.065          |

**Table SE.9: Sampling errors: Nasirabad**Standard errors, coefficients of variation, design effects (*deff*), square root of design effects (*deft*) and confidence intervals for selected indicators, Balochistan Province, Pakistan, 2010

|                                                               | MICS Indicator | Value ( <i>r</i> ) | Standard error ( <i>se</i> ) | Coefficient of variation ( <i>se/r</i> ) | Design effect ( <i>deff</i> ) | Square root of design effect ( <i>deft</i> ) | Weighted count | Unweighted count | Confidence limits |                |
|---------------------------------------------------------------|----------------|--------------------|------------------------------|------------------------------------------|-------------------------------|----------------------------------------------|----------------|------------------|-------------------|----------------|
|                                                               |                |                    |                              |                                          |                               |                                              |                |                  | <i>r - 2se</i>    | <i>r + 2se</i> |
| HOUSEHOLDS                                                    |                |                    |                              |                                          |                               |                                              |                |                  |                   |                |
| Iodized salt consumption                                      | 2.16           | 0.1226             | 0.0142                       | 0.116                                    | 2.803                         | 1.674                                        | 1,834          | 1,490            | 0.094             | 0.151          |
| Household availability of insecticide-treated nets (ITNs)     | 3.12           | 0.0110             | 0.0028                       | 0.251                                    | 1.057                         | 1.028                                        | 1,849          | 1,505            | 0.005             | 0.017          |
| HOUSEHOLD MEMBERS                                             |                |                    |                              |                                          |                               |                                              |                |                  |                   |                |
| Use of improved drinking water sources                        | 4.1            | 0.4119             | 0.0275                       | 0.067                                    | 4.701                         | 2.168                                        | 15,142         | 1,505            | 0.357             | 0.467          |
| Use of improved sanitation facilities                         | 4.3            | 0.4758             | 0.0253                       | 0.053                                    | 3.849                         | 1.962                                        | 15142          | 1505             | 0.425             | 0.526          |
| Secondary school net attendance ratio (adjusted)              | 7.5            | 0.1993             | 0.0170                       | 0.085                                    | 3.345                         | 1.829                                        | 2,271          | 1,843            | 0.165             | 0.233          |
| Child labour                                                  | 8.2            | 0.1371             | 0.0139                       | 0.101                                    | 5.863                         | 2.421                                        | 4,423          | 3,607            | 0.109             | 0.165          |
| WOMEN                                                         |                |                    |                              |                                          |                               |                                              |                |                  |                   |                |
| Pregnant women                                                | -              | 0.1439             | 0.0096                       | 0.067                                    | 1.860                         | 1.364                                        | 3,164          | 2,501            | 0.125             | 0.163          |
| Intermittent preventive treatment for malaria                 | 3.20           | 0.0166             | 0.0084                       | 0.508                                    | 0.531                         | 0.728                                        | 160            | 123              | 0.000             | 0.033          |
| Early childbearing                                            | 5.2            | 0.1378             | 0.0160                       | 0.116                                    | 0.947                         | 0.973                                        | 553            | 439              | 0.106             | 0.170          |
| Contraceptive prevalence                                      | 5.3            | 0.1409             | 0.0116                       | 0.082                                    | 1.843                         | 1.357                                        | 2,113          | 1,653            | 0.118             | 0.164          |
| Antenatal care coverage - at least once by skilled personnel  | 5.5a           | 0.3359             | 0.0400                       | 0.119                                    | 2.489                         | 1.578                                        | 476            | 348              | 0.256             | 0.416          |
| Antenatal care coverage – at least four times by any provider | 5.5b           | 0.1139             | 0.0229                       | 0.201                                    | 1.801                         | 1.342                                        | 476            | 348              | 0.068             | 0.160          |
| Skilled attendant at delivery                                 | 5.7            | 0.2565             | 0.0303                       | 0.118                                    | 1.672                         | 1.293                                        | 476            | 348              | 0.196             | 0.317          |
| Institutional deliveries                                      | 5.8            | 0.2179             | 0.0266                       | 0.122                                    | 1.440                         | 1.200                                        | 476            | 348              | 0.165             | 0.271          |
| Literacy rate among young women                               | 7.1            | 0.2250             | 0.0293                       | 0.130                                    | 5.338                         | 2.310                                        | 1,369          | 1,085            | 0.166             | 0.284          |
| Marriage before age 18                                        | 8.7            | 0.4130             | 0.0154                       | 0.037                                    | 1.814                         | 1.347                                        | 2,349          | 1,855            | 0.382             | 0.444          |
| Knowledge of mother- to-child transmission of HIV             | 9.3            | 0.0601             | 0.0057                       | 0.094                                    | 1.418                         | 1.191                                        | 3,164          | 2,501            | 0.049             | 0.071          |
| Accepting attitudes towards people living with HIV            | 9.4            | 0.0276             | 0.0073                       | 0.264                                    | 0.952                         | 0.976                                        | 577            | 484              | 0.013             | 0.042          |
| UNDER-5s                                                      |                |                    |                              |                                          |                               |                                              |                |                  |                   |                |
| Exclusive breastfeeding under 6 months                        | 2.6            | 0.5214             | 0.0504                       | 0.097                                    | 0.976                         | 0.988                                        | 140            | 97               | 0.421             | 0.622          |
| Age-appropriate breastfeeding                                 | 2.14           | 0.3655             | 0.0262                       | 0.072                                    | 1.166                         | 1.080                                        | 567            | 395              | 0.313             | 0.418          |
| Tuberculosis immunization coverage                            | -              | 0.4574             | 0.0530                       | 0.116                                    | 2.209                         | 1.486                                        | 276            | 196              | 0.351             | 0.563          |
| Received polio immunization                                   | -              | 0.5717             | 0.0514                       | 0.090                                    | 2.125                         | 1.458                                        | 277            | 198              | 0.469             | 0.674          |

**Table SE.9: Sampling errors: Nasirabad**Standard errors, coefficients of variation, design effects (*deff*), square root of design effects (*deft*) and confidence intervals for selected indicators, Balochistan Province, Pakistan, 2010

|                                                                     | MICS Indicator | Value ( <i>r</i> ) | Standard error ( <i>se</i> ) | Coefficient of variation ( <i>se/r</i> ) | Design effect ( <i>deff</i> ) | Square root of design effect ( <i>deft</i> ) | Weighted count | Unweighted count | Confidence limits |                |
|---------------------------------------------------------------------|----------------|--------------------|------------------------------|------------------------------------------|-------------------------------|----------------------------------------------|----------------|------------------|-------------------|----------------|
|                                                                     |                |                    |                              |                                          |                               |                                              |                |                  | <i>r - 2se</i>    | <i>r + 2se</i> |
| Received DPT immunization                                           | -              | 0.2179             | 0.0380                       | 0.175                                    | 1.623                         | 1.274                                        | 272            | 192              | 0.142             | 0.294          |
| Received measles immunization                                       | -              | 0.2164             | 0.0488                       | 0.226                                    | 2.598                         | 1.612                                        | 263            | 186              | 0.119             | 0.314          |
| Received Hepatitis B immunization                                   | -              | 0.0997             | 0.0225                       | 0.225                                    | 1.036                         | 1.018                                        | 263            | 185              | 0.055             | 0.145          |
| Diarrhea in the previous 2 weeks                                    | -              | 0.2271             | 0.0152                       | 0.067                                    | 1.711                         | 1.308                                        | 1,743          | 1,295            | 0.197             | 0.258          |
| Illness with a cough in the previous 2 weeks                        | -              | 0.0456             | 0.0059                       | 0.130                                    | 1.037                         | 1.019                                        | 1,743          | 1,295            | 0.034             | 0.057          |
| Fever in last two weeks                                             | -              | 0.2578             | 0.0221                       | 0.086                                    | 3.300                         | 1.817                                        | 1,743          | 1,295            | 0.214             | 0.302          |
| Oral rehydration therapy with continued feeding                     | 3.8            | 0.5243             | 0.0288                       | 0.055                                    | 1.096                         | 1.047                                        | 396            | 330              | 0.467             | 0.582          |
| Antibiotic treatment of suspected pneumonia                         | 3.10           | 0.4155             | 0.0268                       | 0.065                                    | 0.157                         | 0.396                                        | 79             | 54               | 0.362             | 0.469          |
| Children under age 5 sleeping under insecticide-treated nets (ITNs) | 3.15           | 0.0035             | 0.0019                       | 0.551                                    | 1.352                         | 1.163                                        | 1,725          | 1,279            | 0.000             | 0.007          |
| Anti-malarial treatment of children under age 5                     | 3.18           | 0.3031             | 0.0480                       | 0.158                                    | 3.696                         | 1.923                                        | 449            | 340              | 0.207             | 0.399          |
| Support for learning                                                | 6.1            | 0.3437             | 0.0308                       | 0.090                                    | 2.699                         | 1.643                                        | 836            | 643              | 0.282             | 0.405          |
| Attendance to early childhood education                             | 6.7            | 0.0257             | 0.0081                       | 0.315                                    | 1.679                         | 1.296                                        | 836            | 643              | 0.009             | 0.042          |
| Birth registration                                                  | 8.1            | 0.2416             | 0.0212                       | 0.088                                    | 3.172                         | 1.781                                        | 1,743          | 1,295            | 0.199             | 0.284          |

**Table SE.10: Sampling errors: Makran**Standard errors, coefficients of variation, design effects (*deff*), square root of design effects (*deft*) and confidence intervals for selected indicators, Balochistan Province, Pakistan, 2010

|                                                               | MICS Indicator | Value ( <i>r</i> ) | Standard error ( <i>se</i> ) | Coefficient of variation ( <i>se/r</i> ) | Design effect ( <i>deff</i> ) | Square root of design effect ( <i>deft</i> ) | Weighted count | Unweighted count | Confidence limits      |                        |
|---------------------------------------------------------------|----------------|--------------------|------------------------------|------------------------------------------|-------------------------------|----------------------------------------------|----------------|------------------|------------------------|------------------------|
|                                                               |                |                    |                              |                                          |                               |                                              |                |                  | <i>r</i> - 2 <i>se</i> | <i>r</i> + 2 <i>se</i> |
| HOUSEHOLDS                                                    |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Iodized salt consumption                                      | 2.16           | 0.2475             | 0.0140                       | 0.057                                    | 1.172                         | 1.083                                        | 1,524          | 1,112            | 0.219                  | 0.276                  |
| Household availability of insecticide-treated nets (ITNs)     | 3.12           | 0.0618             | 0.0142                       | 0.231                                    | 3.942                         | 1.985                                        | 1,539          | 1,127            | 0.033                  | 0.090                  |
| HOUSEHOLD MEMBERS                                             |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Use of improved drinking water sources                        | 4.1            | 0.8241             | 0.0144                       | 0.017                                    | 1.602                         | 1.266                                        | 11,041         | 1,127            | 0.795                  | 0.853                  |
| Use of improved sanitation facilities                         | 4.3            | 0.8118             | 0.0215                       | 0.026                                    | 3.392                         | 1.842                                        | 11041          | 1127             | 0.769                  | 0.855                  |
| Secondary school net attendance ratio (adjusted)              | 7.5            | 0.5527             | 0.0184                       | 0.033                                    | 1.980                         | 1.407                                        | 2,056          | 1,443            | 0.516                  | 0.590                  |
| Child labour                                                  | 8.2            | 0.1346             | 0.0130                       | 0.096                                    | 3.549                         | 1.884                                        | 3,602          | 2,452            | 0.109                  | 0.161                  |
| WOMEN                                                         |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Pregnant women                                                | -              | 0.1603             | 0.0125                       | 0.078                                    | 1.906                         | 1.380                                        | 2,132          | 1,652            | 0.135                  | 0.185                  |
| Intermittent preventive treatment for malaria                 | 3.20           | 0.1329             | 0.0220                       | 0.165                                    | 0.319                         | 0.565                                        | 119            | 77               | 0.089                  | 0.177                  |
| Early childbearing                                            | 5.2            | 0.1375             | 0.0216                       | 0.157                                    | 0.914                         | 0.956                                        | 293            | 234              | 0.094                  | 0.181                  |
| Contraceptive prevalence                                      | 5.3            | 0.2860             | 0.0186                       | 0.065                                    | 1.703                         | 1.305                                        | 1,336          | 1,005            | 0.249                  | 0.323                  |
| Antenatal care coverage - at least once by skilled personnel  | 5.5a           | 0.5750             | 0.0484                       | 0.084                                    | 1.383                         | 1.176                                        | 207            | 145              | 0.478                  | 0.672                  |
| Antenatal care coverage – at least four times by any provider | 5.5b           | 0.1177             | 0.0259                       | 0.220                                    | 0.933                         | 0.966                                        | 207            | 145              | 0.066                  | 0.170                  |
| Skilled attendant at delivery                                 | 5.7            | 0.4912             | 0.0458                       | 0.093                                    | 1.211                         | 1.100                                        | 207            | 145              | 0.400                  | 0.583                  |
| Institutional deliveries                                      | 5.8            | 0.3754             | 0.0486                       | 0.129                                    | 1.449                         | 1.204                                        | 207            | 145              | 0.278                  | 0.473                  |
| Literacy rate among young women                               | 7.1            | 0.6948             | 0.0245                       | 0.035                                    | 1.755                         | 1.325                                        | 798            | 622              | 0.646                  | 0.744                  |
| Marriage before age 18                                        | 8.7            | 0.3204             | 0.0211                       | 0.066                                    | 2.574                         | 1.604                                        | 1,627          | 1,264            | 0.278                  | 0.362                  |
| Knowledge of mother- to-child transmission of HIV             | 9.3            | 0.0167             | 0.0060                       | 0.360                                    | 3.647                         | 1.910                                        | 2,132          | 1,652            | 0.005                  | 0.029                  |
| Accepting attitudes towards people living with HIV            | 9.4            | 0.2836             | 0.0411                       | 0.145                                    | 3.964                         | 1.991                                        | 631            | 478              | 0.201                  | 0.366                  |
| UNDER-5s                                                      |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Exclusive breastfeeding under 6 months                        | 2.6            | 0.1389             | 0.0446                       | 0.321                                    | 0.864                         | 0.929                                        | 63             | 53               | 0.050                  | 0.228                  |
| Age-appropriate breastfeeding                                 | 2.14           | 0.4404             | 0.0423                       | 0.096                                    | 1.053                         | 1.026                                        | 209            | 146              | 0.356                  | 0.525                  |
| Tuberculosis immunization coverage                            | -              | 0.7798             | 0.0480                       | 0.062                                    | 0.898                         | 0.948                                        | 108            | 68               | 0.684                  | 0.876                  |
| Received polio immunization                                   | -              | 0.3663             | 0.0778                       | 0.212                                    | 1.670                         | 1.292                                        | 104            | 65               | 0.211                  | 0.522                  |

**Table SE.10: Sampling errors: Makran**Standard errors, coefficients of variation, design effects (*deff*), square root of design effects (*deft*) and confidence intervals for selected indicators, Balochistan Province, Pakistan, 2010

|                                                                     | MICS Indicator | Value ( <i>r</i> ) | Standard error ( <i>se</i> ) | Coefficient of variation ( <i>se/r</i> ) | Design effect ( <i>deff</i> ) | Square root of design effect ( <i>deft</i> ) | Weighted count | Unweighted count | Confidence limits      |                        |
|---------------------------------------------------------------------|----------------|--------------------|------------------------------|------------------------------------------|-------------------------------|----------------------------------------------|----------------|------------------|------------------------|------------------------|
|                                                                     |                |                    |                              |                                          |                               |                                              |                |                  | <i>r</i> - 2 <i>se</i> | <i>r</i> + 2 <i>se</i> |
| Received DPT immunization                                           | -              | 0.3139             | 0.0575                       | 0.183                                    | 0.968                         | 0.984                                        | 102            | 64               | 0.199                  | 0.429                  |
| Received measles immunization                                       | -              | 0.6200             | 0.0798                       | 0.129                                    | 1.756                         | 1.325                                        | 106            | 66               | 0.460                  | 0.780                  |
| Received Hepatitis B immunization                                   | -              | 0.1819             | 0.0530                       | 0.291                                    | 1.112                         | 1.054                                        | 97             | 60               | 0.076                  | 0.288                  |
| Diarrhea in the previous 2 weeks                                    | -              | 0.2212             | 0.0175                       | 0.079                                    | 1.253                         | 1.119                                        | 982            | 702              | 0.186                  | 0.256                  |
| Illness with a cough in the previous 2 weeks                        | -              | 0.0292             | 0.0076                       | 0.260                                    | 1.430                         | 1.196                                        | 982            | 702              | 0.014                  | 0.044                  |
| Fever in last two weeks                                             | -              | 0.2089             | 0.0291                       | 0.139                                    | 3.582                         | 1.893                                        | 982            | 702              | 0.151                  | 0.267                  |
| Oral rehydration therapy with continued feeding                     | 3.8            | 0.5850             | 0.0611                       | 0.105                                    | 2.633                         | 1.623                                        | 217            | 172              | 0.463                  | 0.707                  |
| Children under age 5 sleeping under insecticide-treated nets (ITNs) | 3.15           | 0.0281             | 0.0121                       | 0.431                                    | 3.755                         | 1.938                                        | 981            | 700              | 0.004                  | 0.052                  |
| Anti-malarial treatment of children under age 5                     | 3.18           | 0.3647             | 0.0600                       | 0.165                                    | 2.426                         | 1.558                                        | 205            | 157              | 0.245                  | 0.485                  |
| Support for learning                                                | 6.1            | 0.8019             | 0.0242                       | 0.030                                    | 1.600                         | 1.265                                        | 607            | 436              | 0.754                  | 0.850                  |
| Attendance to early childhood education                             | 6.7            | 0.0849             | 0.0153                       | 0.180                                    | 1.313                         | 1.146                                        | 607            | 436              | 0.054                  | 0.116                  |
| Birth registration                                                  | 8.1            | 0.6531             | 0.0323                       | 0.049                                    | 3.228                         | 1.797                                        | 982            | 702              | 0.588                  | 0.718                  |

## **Appendix C-1 Estimates of sampling errors for selected indicators at districts level**

| <b>Table D2: Sampling errors: Quetta Chilton town</b>                                                                                                                                                            |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------|------------------------------|------------------------------------------|-------------------------------|----------------------------------------------|----------------|------------------|------------------------|------------------------|
| Standard errors, coefficients of variation, design effects ( <i>deff</i> ), square root of design effects ( <i>deff</i> ) and confidence intervals for selected indicators, Balochistan Province, Pakistan, 2010 |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
|                                                                                                                                                                                                                  | MICS Indicator | Value ( <i>r</i> ) | Standard error ( <i>se</i> ) | Coefficient of variation ( <i>se/r</i> ) | Design effect ( <i>deff</i> ) | Square root of design effect ( <i>deff</i> ) | Weighted count | Unweighted count | Confidence limits      |                        |
|                                                                                                                                                                                                                  |                |                    |                              |                                          |                               |                                              |                |                  | <i>r</i> - 2 <i>se</i> | <i>r</i> + 2 <i>se</i> |
| <b>HOUSEHOLDS</b>                                                                                                                                                                                                |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Iodized salt consumption                                                                                                                                                                                         | 2.16           | 0.0684             | 0.0125                       | 0.182                                    | 0.974                         | 0.987                                        | 543            | 400              | 0.043                  | 0.093                  |
| <b>HOUSEHOLD MEMBERS</b>                                                                                                                                                                                         |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Use of improved drinking water sources                                                                                                                                                                           | 4.1            | 0.8344             | 0.0431                       | 0.052                                    | 5.537                         | 2.353                                        | 4286           | 412              | 0.748                  | 0.921                  |
| Use of improved sanitation facilities                                                                                                                                                                            | 4.3            | 0.8052             | 0.0329                       | 0.041                                    | 2.839                         | 1.685                                        | 4286           | 412              | 0.739                  | 0.871                  |
| Secondary school net attendance ratio (adjusted)                                                                                                                                                                 | 7.5            | 0.3728             | 0.0296                       | 0.079                                    | 1.915                         | 1.384                                        | 704            | 513              | 0.314                  | 0.432                  |
| <b>WOMEN</b>                                                                                                                                                                                                     |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Contraceptive prevalence                                                                                                                                                                                         | 5.3            | 0.2105             | 0.0284                       | 0.135                                    | 1.892                         | 1.375                                        | 525            | 391              | 0.154                  | 0.267                  |
| Antenatal care coverage - at least once by skilled personnel                                                                                                                                                     | 5.5a           | 0.6732             | 0.0573                       | 0.085                                    | 1.537                         | 1.240                                        | 132            | 104              | 0.559                  | 0.788                  |
| Antenatal care coverage – at least four times by any provider                                                                                                                                                    | 5.5b           | 0.2967             | 0.0400                       | 0.135                                    | 0.791                         | 0.889                                        | 132            | 104              | 0.217                  | 0.377                  |
| Skilled attendant at delivery                                                                                                                                                                                    | 5.7            | 0.6645             | 0.0308                       | 0.046                                    | 0.439                         | 0.663                                        | 132            | 104              | 0.603                  | 0.726                  |
| Institutional deliveries                                                                                                                                                                                         | 5.8            | 0.6113             | 0.0374                       | 0.061                                    | 0.607                         | 0.779                                        | 132            | 104              | 0.536                  | 0.686                  |
| Literacy rate among young women                                                                                                                                                                                  | 7.1            | 0.5605             | 0.0548                       | 0.098                                    | 3.596                         | 1.896                                        | 430            | 296              | 0.451                  | 0.670                  |
| <b>UNDER-5s</b>                                                                                                                                                                                                  |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Tuberculosis immunization coverage                                                                                                                                                                               | -              | 0.4418             | 0.0823                       | 0.186                                    | 1.346                         | 1.160                                        | 63             | 50               | 0.277                  | 0.606                  |
| Received polio immunization                                                                                                                                                                                      | -              | 0.6172             | 0.0709                       | 0.115                                    | 1.062                         | 1.031                                        | 63             | 51               | 0.476                  | 0.759                  |
| Received DPT immunization                                                                                                                                                                                        | -              | 0.1902             | 0.0712                       | 0.374                                    | 1.449                         | 1.204                                        | 56             | 45               | 0.048                  | 0.333                  |
| Received measles immunization                                                                                                                                                                                    | -              | 0.3267             | 0.0960                       | 0.294                                    | 1.760                         | 1.327                                        | 53             | 43               | 0.135                  | 0.519                  |
| Received Hepatitis B immunization                                                                                                                                                                                | -              | 0.1666             | 0.0691                       | 0.415                                    | 1.548                         | 1.244                                        | 59             | 46               | 0.028                  | 0.305                  |
| Diarrhoea in the previous 2 weeks                                                                                                                                                                                | -              | 0.1491             | 0.0213                       | 0.143                                    | 1.222                         | 1.105                                        | 421            | 342              | 0.106                  | 0.192                  |

| <b>Table D3: Sampling errors: Pishin</b>                                                                                                                                                                         |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------|------------------------------|------------------------------------------|-------------------------------|----------------------------------------------|----------------|------------------|------------------------|------------------------|
| Standard errors, coefficients of variation, design effects ( <i>deff</i> ), square root of design effects ( <i>deff</i> ) and confidence intervals for selected indicators, Balochistan Province, Pakistan, 2010 |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
|                                                                                                                                                                                                                  | MICS Indicator | Value ( <i>r</i> ) | Standard error ( <i>se</i> ) | Coefficient of variation ( <i>se/r</i> ) | Design effect ( <i>deff</i> ) | Square root of design effect ( <i>deff</i> ) | Weighted count | Unweighted count | Confidence limits      |                        |
|                                                                                                                                                                                                                  |                |                    |                              |                                          |                               |                                              |                |                  | <i>r</i> - 2 <i>se</i> | <i>r</i> + 2 <i>se</i> |
| <b>HOUSEHOLDS</b>                                                                                                                                                                                                |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Iodized salt consumption                                                                                                                                                                                         | 2.16           | 0.0501             | 0.0062                       | 0.125                                    | 0.330                         | 0.575                                        | 556            | 404              | 0.038                  | 0.063                  |
| <b>HOUSEHOLD MEMBERS</b>                                                                                                                                                                                         |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Use of improved drinking water sources                                                                                                                                                                           | 4.1            | 0.8982             | 0.0312                       | 0.035                                    | 4.670                         | 2.161                                        | 5527           | 439              | 0.836                  | 0.961                  |
| Use of improved sanitation facilities                                                                                                                                                                            | 4.3            | 0.5171             | 0.0510                       | 0.099                                    | 4.560                         | 2.135                                        | 5527           | 439              | 0.415                  | 0.619                  |
| Secondary school net attendance ratio (adjusted)                                                                                                                                                                 | 7.5            | 0.1938             | 0.0335                       | 0.173                                    | 4.805                         | 2.192                                        | 918            | 671              | 0.127                  | 0.261                  |
| <b>WOMEN</b>                                                                                                                                                                                                     |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Contraceptive prevalence                                                                                                                                                                                         | 5.3            | 0.0911             | 0.0141                       | 0.154                                    | 1.236                         | 1.112                                        | 697            | 518              | 0.063                  | 0.119                  |
| Antenatal care coverage - at least once by skilled personnel                                                                                                                                                     | 5.5a           | 0.3715             | 0.0346                       | 0.093                                    | 0.809                         | 0.899                                        | 219            | 159              | 0.302                  | 0.441                  |
| Antenatal care coverage – at least four times by any provider                                                                                                                                                    | 5.5b           | 0.0780             | 0.0159                       | 0.204                                    | 0.556                         | 0.746                                        | 219            | 159              | 0.046                  | 0.110                  |
| Skilled attendant at delivery                                                                                                                                                                                    | 5.7            | 0.2541             | 0.0310                       | 0.122                                    | 0.801                         | 0.895                                        | 219            | 159              | 0.192                  | 0.316                  |
| Institutional deliveries                                                                                                                                                                                         | 5.8            | 0.2384             | 0.0278                       | 0.117                                    | 0.672                         | 0.820                                        | 219            | 159              | 0.183                  | 0.294                  |
| Literacy rate among young women                                                                                                                                                                                  | 7.1            | 0.2455             | 0.0418                       | 0.170                                    | 3.918                         | 1.979                                        | 571            | 416              | 0.162                  | 0.329                  |
| <b>UNDER-5s</b>                                                                                                                                                                                                  |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Tuberculosis immunization coverage                                                                                                                                                                               | -              | 0.2199             | 0.0709                       | 0.322                                    | 2.284                         | 1.511                                        | 105            | 79               | 0.078                  | 0.362                  |
| Received polio immunization                                                                                                                                                                                      | -              | 0.7822             | 0.0443                       | 0.057                                    | 0.945                         | 0.972                                        | 112            | 83               | 0.694                  | 0.871                  |
| Received DPT immunization                                                                                                                                                                                        | -              | 0.0144             | 0.0161                       | 1.118                                    | 1.367                         | 1.169                                        | 100            | 76               | 0.000                  | 0.046                  |
| Received measles immunization                                                                                                                                                                                    | -              | 0.1045             | 0.0368                       | 0.352                                    | 1.028                         | 1.014                                        | 97             | 72               | 0.031                  | 0.178                  |
| Received Hepatitis B immunization                                                                                                                                                                                | -              | 0.0000             | 0.0000                       | .                                        | .                             | .                                            | 97             | 74               | 0.000                  | 0.000                  |
| Diarrhoea in the previous 2 weeks                                                                                                                                                                                | -              | 0.2391             | 0.0133                       | 0.055                                    | 0.468                         | 0.684                                        | 657            | 485              | 0.213                  | 0.266                  |



**Table D4: Sampling errors: Qilla Abdullah**

Standard errors, coefficients of variation, design effects (*deff*), square root of design effects (*deft*) and confidence intervals for selected indicators, Balochistan Province, Pakistan, 2010

|                                                               | MICS Indicator | Value ( <i>r</i> ) | Standard error ( <i>se</i> ) | Coefficient of variation ( <i>se/r</i> ) | Design effect ( <i>deff</i> ) | Square root of design effect ( <i>deft</i> ) | Weighted count | Unweighted count | Confidence limits      |                        |
|---------------------------------------------------------------|----------------|--------------------|------------------------------|------------------------------------------|-------------------------------|----------------------------------------------|----------------|------------------|------------------------|------------------------|
|                                                               |                |                    |                              |                                          |                               |                                              |                |                  | <i>r</i> - 2 <i>se</i> | <i>r</i> + 2 <i>se</i> |
| <b>HOUSEHOLDS</b>                                             |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Iodized salt consumption                                      | 2.16           | 0.0259             | 0.0087                       | 0.335                                    | 1.155                         | 1.075                                        | 493            | 389              | 0.009                  | 0.043                  |
| <b>HOUSEHOLD MEMBERS</b>                                      |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Use of improved drinking water sources                        | 4.1            | 0.9906             | 0.0065                       | 0.007                                    | 1.813                         | 1.346                                        | 4315           | 399              | 0.978                  | 1.000                  |
| Use of improved sanitation facilities                         | 4.3            | 0.9501             | 0.0292                       | 0.031                                    | 7.141                         | 2.672                                        | 4315           | 399              | 0.892                  | 1.000                  |
| Secondary school net attendance ratio (adjusted)              | 7.5            | 0.2901             | 0.0491                       | 0.169                                    | 6.665                         | 2.582                                        | 729            | 571              | 0.192                  | 0.388                  |
| <b>WOMEN</b>                                                  |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Contraceptive prevalence                                      | 5.3            | 0.3429             | 0.0325                       | 0.095                                    | 1.973                         | 1.405                                        | 524            | 423              | 0.278                  | 0.408                  |
| Antenatal care coverage - at least once by skilled personnel  | 5.5a           | 0.1650             | 0.0628                       | 0.381                                    | 4.153                         | 2.038                                        | 182            | 146              | 0.039                  | 0.291                  |
| Antenatal care coverage – at least four times by any provider | 5.5b           | 0.0480             | 0.0096                       | 0.199                                    | 0.290                         | 0.538                                        | 182            | 146              | 0.029                  | 0.067                  |
| Skilled attendant at delivery                                 | 5.7            | 0.1205             | 0.0459                       | 0.381                                    | 2.887                         | 1.699                                        | 182            | 146              | 0.029                  | 0.212                  |
| Institutional deliveries                                      | 5.8            | 0.1409             | 0.0414                       | 0.294                                    | 2.055                         | 1.433                                        | 182            | 146              | 0.058                  | 0.224                  |
| Literacy rate among young women                               | 7.1            | 0.1618             | 0.0382                       | 0.236                                    | 4.225                         | 2.055                                        | 485            | 393              | 0.085                  | 0.238                  |
| <b>UNDER-5s</b>                                               |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Tuberculosis immunization coverage                            | -              | 0.0650             | 0.0277                       | 0.425                                    | 1.070                         | 1.034                                        | 115            | 86               | 0.010                  | 0.120                  |
| Received polio immunization                                   | -              | 0.1403             | 0.0772                       | 0.550                                    | 4.298                         | 2.073                                        | 117            | 88               | 0.000                  | 0.295                  |
| Received DPT immunization                                     | -              | 0.0056             | 0.0058                       | 1.029                                    | 0.478                         | 0.692                                        | 109            | 81               | 0.000                  | 0.017                  |
| Received measles immunization                                 | -              | 0.0551             | 0.0238                       | 0.432                                    | 0.859                         | 0.927                                        | 108            | 80               | 0.008                  | 0.103                  |
| Received Hepatitis B immunization                             | -              | 0.0000             | 0.0000                       | .                                        | .                             | .                                            | 107            | 79               | 0.000                  | 0.000                  |
| Diarrhoea in the previous 2 weeks                             | -              | 0.0609             | 0.0141                       | 0.232                                    | 1.967                         | 1.402                                        | 727            | 564              | 0.033                  | 0.089                  |

**Table D5: Sampling errors: Ziarat**

Standard errors, coefficients of variation, design effects (*deff*), square root of design effects (*deft*) and confidence intervals for selected indicators, Balochistan Province, Pakistan, 2010

|                                                               | MICS Indicator | Value ( <i>r</i> ) | Standard error ( <i>se</i> ) | Coefficient of variation ( <i>se/r</i> ) | Design effect ( <i>deff</i> ) | Square root of design effect ( <i>deft</i> ) | Weighted count | Unweighted count | Confidence limits      |                        |
|---------------------------------------------------------------|----------------|--------------------|------------------------------|------------------------------------------|-------------------------------|----------------------------------------------|----------------|------------------|------------------------|------------------------|
|                                                               |                |                    |                              |                                          |                               |                                              |                |                  | <i>r</i> - 2 <i>se</i> | <i>r</i> + 2 <i>se</i> |
| HOUSEHOLDS                                                    |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Iodized salt consumption                                      | 2.16           | 0.0688             | 0.0101                       | 0.147                                    | 0.462                         | 0.680                                        | 63             | 292              | 0.049                  | 0.089                  |
| HOUSEHOLD MEMBERS                                             |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Use of improved drinking water sources                        | 4.1            | 0.4850             | 0.0577                       | 0.119                                    | 3.983                         | 1.996                                        | 556            | 300              | 0.370                  | 0.600                  |
| Use of improved sanitation facilities                         | 4.3            | 0.3302             | 0.0383                       | 0.116                                    | 1.986                         | 1.409                                        | 556            | 300              | 0.254                  | 0.407                  |
| Secondary school net attendance ratio (adjusted)              | 7.5            | 0.3176             | 0.0408                       | 0.128                                    | 2.988                         | 1.729                                        | 83             | 390              | 0.236                  | 0.399                  |
| WOMEN                                                         |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Contraceptive prevalence                                      | 5.3            | 0.0808             | 0.0112                       | 0.138                                    | 0.610                         | 0.781                                        | 74             | 363              | 0.058                  | 0.103                  |
| Antenatal care coverage - at least once by skilled personnel  | 5.5a           | 0.2907             | 0.0655                       | 0.225                                    | 1.811                         | 1.346                                        | 18             | 88               | 0.160                  | 0.422                  |
| Antenatal care coverage – at least four times by any provider | 5.5b           | 0.0557             | 0.0336                       | 0.604                                    | 1.870                         | 1.368                                        | 18             | 88               | 0.000                  | 0.123                  |
| Skilled attendant at delivery                                 | 5.7            | 0.1426             | 0.0400                       | 0.281                                    | 1.140                         | 1.068                                        | 18             | 88               | 0.063                  | 0.223                  |
| Institutional deliveries                                      | 5.8            | 0.1426             | 0.0400                       | 0.281                                    | 1.140                         | 1.068                                        | 18             | 88               | 0.063                  | 0.223                  |
| Literacy rate among young women                               | 7.1            | 0.3757             | 0.0514                       | 0.137                                    | 2.829                         | 1.682                                        | 47             | 252              | 0.273                  | 0.479                  |
| UNDER-5s                                                      |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Tuberculosis immunization coverage                            | -              | 0.3382             | 0.0473                       | 0.140                                    | 0.470                         | 0.686                                        | 10             | 48               | 0.244                  | 0.433                  |
| Received polio immunization                                   | -              | 0.6760             | 0.0647                       | 0.096                                    | 0.916                         | 0.957                                        | 10             | 49               | 0.547                  | 0.805                  |
| Received DPT immunization                                     | -              | 0.0147             | 0.0142                       | 0.965                                    | 0.640                         | 0.800                                        | 10             | 47               | 0.000                  | 0.043                  |
| Received measles immunization                                 | -              | 0.0362             | 0.0279                       | 0.771                                    | 0.984                         | 0.992                                        | 9              | 45               | 0.000                  | 0.092                  |
| Received Hepatitis B immunization                             | -              | 0.0155             | 0.0149                       | 0.963                                    | 0.657                         | 0.811                                        | 9              | 46               | 0.000                  | 0.045                  |
| Diarrhoea in the previous 2 weeks                             | -              | 0.2945             | 0.0361                       | 0.123                                    | 1.761                         | 1.327                                        | 59             | 282              | 0.222                  | 0.367                  |

| <b>Table D6: Sampling errors: Harnai</b>                                                                                                                                                                         |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------|------------------------------|------------------------------------------|-------------------------------|----------------------------------------------|----------------|------------------|------------------------|------------------------|
| Standard errors, coefficients of variation, design effects ( <i>deff</i> ), square root of design effects ( <i>deff</i> ) and confidence intervals for selected indicators, Balochistan Province, Pakistan, 2010 |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
|                                                                                                                                                                                                                  | MICS Indicator | Value ( <i>r</i> ) | Standard error ( <i>se</i> ) | Coefficient of variation ( <i>se/r</i> ) | Design effect ( <i>deff</i> ) | Square root of design effect ( <i>deff</i> ) | Weighted count | Unweighted count | Confidence limits      |                        |
|                                                                                                                                                                                                                  |                |                    |                              |                                          |                               |                                              |                |                  | <i>r</i> - 2 <i>se</i> | <i>r</i> + 2 <i>se</i> |
| <b>HOUSEHOLDS</b>                                                                                                                                                                                                |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Iodized salt consumption                                                                                                                                                                                         | 2.16           | 0.0657             | 0.0116                       | 0.176                                    | 0.815                         | 0.903                                        | 142            | 373              | 0.043                  | 0.089                  |
| <b>HOUSEHOLD MEMBERS</b>                                                                                                                                                                                         |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Use of improved drinking water sources                                                                                                                                                                           | 4.1            | 0.6749             | 0.0360                       | 0.053                                    | 2.287                         | 1.512                                        | 1129           | 388              | 0.603                  | 0.747                  |
| Use of improved sanitation facilities                                                                                                                                                                            | 4.3            | 0.4078             | 0.0595                       | 0.146                                    | 5.680                         | 2.383                                        | 1129           | 388              | 0.289                  | 0.527                  |
| Secondary school net attendance ratio (adjusted)                                                                                                                                                                 | 7.5            | 0.1621             | 0.0276                       | 0.170                                    | 2.667                         | 1.633                                        | 182            | 478              | 0.107                  | 0.217                  |
| <b>WOMEN</b>                                                                                                                                                                                                     |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Contraceptive prevalence                                                                                                                                                                                         | 5.3            | 0.1415             | 0.0215                       | 0.152                                    | 1.474                         | 1.214                                        | 149            | 387              | 0.098                  | 0.185                  |
| Antenatal care coverage - at least once by skilled personnel                                                                                                                                                     | 5.5a           | 0.3449             | 0.0571                       | 0.166                                    | 0.982                         | 0.991                                        | 25             | 69               | 0.231                  | 0.459                  |
| Antenatal care coverage – at least four times by any provider                                                                                                                                                    | 5.5b           | 0.0408             | 0.0227                       | 0.555                                    | 0.892                         | 0.944                                        | 25             | 69               | 0.000                  | 0.086                  |
| Skilled attendant at delivery                                                                                                                                                                                    | 5.7            | 0.1691             | 0.0356                       | 0.211                                    | 0.614                         | 0.784                                        | 25             | 69               | 0.098                  | 0.240                  |
| Institutional deliveries                                                                                                                                                                                         | 5.8            | 0.1417             | 0.0347                       | 0.245                                    | 0.673                         | 0.820                                        | 25             | 69               | 0.072                  | 0.211                  |
| Literacy rate among young women                                                                                                                                                                                  | 7.1            | 0.1922             | 0.0523                       | 0.272                                    | 3.837                         | 1.959                                        | 82             | 219              | 0.088                  | 0.297                  |
| <b>UNDER-5s</b>                                                                                                                                                                                                  |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Tuberculosis immunization coverage                                                                                                                                                                               | -              | 0.1871             | 0.0615                       | 0.329                                    | 0.944                         | 0.972                                        | 14             | 39               | 0.064                  | 0.310                  |
| Received polio immunization                                                                                                                                                                                      | -              | 0.4616             | 0.0985                       | 0.213                                    | 1.483                         | 1.218                                        | 14             | 39               | 0.265                  | 0.659                  |
| Received DPT immunization                                                                                                                                                                                        | -              | 0.0172             | 0.0167                       | 0.974                                    | 0.597                         | 0.773                                        | 13             | 37               | 0.000                  | 0.051                  |
| Received measles immunization                                                                                                                                                                                    | -              | 0.1976             | 0.0512                       | 0.259                                    | 0.627                         | 0.792                                        | 14             | 39               | 0.095                  | 0.300                  |
| Received Hepatitis B immunization                                                                                                                                                                                | -              | 0.0162             | 0.0162                       | 0.995                                    | 0.638                         | 0.798                                        | 14             | 40               | 0.000                  | 0.049                  |
| Diarrhoea in the previous 2 weeks                                                                                                                                                                                | -              | 0.2357             | 0.0425                       | 0.180                                    | 2.786                         | 1.669                                        | 107            | 279              | 0.151                  | 0.321                  |

| <b>Table D7: Sampling errors: Mastung</b>                                                                                                                                                                        |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------|------------------------------|------------------------------------------|-------------------------------|----------------------------------------------|----------------|------------------|------------------------|------------------------|
| Standard errors, coefficients of variation, design effects ( <i>deff</i> ), square root of design effects ( <i>deft</i> ) and confidence intervals for selected indicators, Balochistan Province, Pakistan, 2010 |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
|                                                                                                                                                                                                                  | MICS Indicator | Value ( <i>r</i> ) | Standard error ( <i>se</i> ) | Coefficient of variation ( <i>se/r</i> ) | Design effect ( <i>deff</i> ) | Square root of design effect ( <i>deft</i> ) | Weighted count | Unweighted count | Confidence limits      |                        |
|                                                                                                                                                                                                                  |                |                    |                              |                                          |                               |                                              |                |                  | <i>r</i> - 2 <i>se</i> | <i>r</i> + 2 <i>se</i> |
| <b>HOUSEHOLDS</b>                                                                                                                                                                                                |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Iodized salt consumption                                                                                                                                                                                         | 2.16           | 0.0356             | 0.0067                       | 0.189                                    | 0.466                         | 0.683                                        | 273            | 356              | 0.022                  | 0.049                  |
| <b>HOUSEHOLD MEMBERS</b>                                                                                                                                                                                         |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Use of improved drinking water sources                                                                                                                                                                           | 4.1            | 0.8845             | 0.0249                       | 0.028                                    | 2.184                         | 1.478                                        | 2245           | 362              | 0.835                  | 0.934                  |
| Use of improved sanitation facilities                                                                                                                                                                            | 4.3            | 0.5023             | 0.0775                       | 0.154                                    | 8.677                         | 2.946                                        | 2245           | 362              | 0.347                  | 0.657                  |
| Secondary school net attendance ratio (adjusted)                                                                                                                                                                 | 7.5            | 0.1992             | 0.0252                       | 0.126                                    | 1.815                         | 1.347                                        | 363            | 457              | 0.149                  | 0.250                  |
| <b>WOMEN</b>                                                                                                                                                                                                     |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Contraceptive prevalence                                                                                                                                                                                         | 5.3            | 0.1260             | 0.0181                       | 0.144                                    | 1.038                         | 1.019                                        | 282            | 350              | 0.090                  | 0.162                  |
| Antenatal care coverage - at least once by skilled personnel                                                                                                                                                     | 5.5a           | 0.3736             | 0.0686                       | 0.184                                    | 1.870                         | 1.367                                        | 79             | 94               | 0.236                  | 0.511                  |
| Antenatal care coverage – at least four times by any provider                                                                                                                                                    | 5.5b           | 0.1249             | 0.0286                       | 0.229                                    | 0.696                         | 0.834                                        | 79             | 94               | 0.068                  | 0.182                  |
| Skilled attendant at delivery                                                                                                                                                                                    | 5.7            | 0.3163             | 0.0828                       | 0.262                                    | 2.946                         | 1.716                                        | 79             | 94               | 0.151                  | 0.482                  |
| Institutional deliveries                                                                                                                                                                                         | 5.8            | 0.1704             | 0.0591                       | 0.347                                    | 2.299                         | 1.516                                        | 79             | 94               | 0.052                  | 0.289                  |
| Literacy rate among young women                                                                                                                                                                                  | 7.1            | 0.2841             | 0.0267                       | 0.094                                    | 0.834                         | 0.913                                        | 193            | 239              | 0.231                  | 0.338                  |
| <b>UNDER-5s</b>                                                                                                                                                                                                  |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Tuberculosis immunization coverage                                                                                                                                                                               | -              | 0.5505             | 0.0668                       | 0.121                                    | 0.993                         | 0.996                                        | 44             | 56               | 0.417                  | 0.684                  |
| Received polio immunization                                                                                                                                                                                      | -              | 0.6123             | 0.0773                       | 0.126                                    | 1.385                         | 1.177                                        | 45             | 56               | 0.458                  | 0.767                  |
| Received DPT immunization                                                                                                                                                                                        | -              | 0.2205             | 0.0618                       | 0.280                                    | 1.154                         | 1.074                                        | 40             | 53               | 0.097                  | 0.344                  |
| Received measles immunization                                                                                                                                                                                    | -              | 0.2755             | 0.0523                       | 0.190                                    | 0.726                         | 0.852                                        | 43             | 54               | 0.171                  | 0.380                  |
| Received Hepatitis B immunization                                                                                                                                                                                | -              | 0.1536             | 0.0520                       | 0.339                                    | 0.978                         | 0.989                                        | 38             | 48               | 0.050                  | 0.258                  |
| Diarrhoea in the previous 2 weeks                                                                                                                                                                                | -              | 0.2109             | 0.0182                       | 0.086                                    | 0.633                         | 0.796                                        | 248            | 318              | 0.174                  | 0.247                  |

| <b>Table D8: Sampling errors: Kalat</b>                                                                                                                                                                          |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------|------------------------------|------------------------------------------|-------------------------------|----------------------------------------------|----------------|------------------|------------------------|------------------------|
| Standard errors, coefficients of variation, design effects ( <i>deff</i> ), square root of design effects ( <i>deft</i> ) and confidence intervals for selected indicators, Balochistan Province, Pakistan, 2010 |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
|                                                                                                                                                                                                                  | MICS Indicator | Value ( <i>r</i> ) | Standard error ( <i>se</i> ) | Coefficient of variation ( <i>se/r</i> ) | Design effect ( <i>deff</i> ) | Square root of design effect ( <i>deft</i> ) | Weighted count | Unweighted count | Confidence limits      |                        |
|                                                                                                                                                                                                                  |                |                    |                              |                                          |                               |                                              |                |                  | <i>r</i> - 2 <i>se</i> | <i>r</i> + 2 <i>se</i> |
| <b>HOUSEHOLDS</b>                                                                                                                                                                                                |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Iodized salt consumption                                                                                                                                                                                         | 2.16           | 0.1065             | 0.0148                       | 0.139                                    | 0.958                         | 0.979                                        | 455            | 416              | 0.077                  | 0.136                  |
| <b>HOUSEHOLD MEMBERS</b>                                                                                                                                                                                         |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Use of improved drinking water sources                                                                                                                                                                           | 4.1            | 0.8186             | 0.0468                       | 0.057                                    | 6.255                         | 2.501                                        | 3945           | 425              | 0.725                  | 0.912                  |
| Use of improved sanitation facilities                                                                                                                                                                            | 4.3            | 0.5291             | 0.0497                       | 0.094                                    | 4.198                         | 2.049                                        | 3945           | 425              | 0.430                  | 0.628                  |
| Secondary school net attendance ratio (adjusted)                                                                                                                                                                 | 7.5            | 0.2285             | 0.0284                       | 0.124                                    | 2.222                         | 1.491                                        | 521            | 488              | 0.172                  | 0.285                  |
| <b>WOMEN</b>                                                                                                                                                                                                     |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Contraceptive prevalence                                                                                                                                                                                         | 5.3            | 0.0878             | 0.0124                       | 0.141                                    | 0.851                         | 0.922                                        | 472            | 445              | 0.063                  | 0.113                  |
| Antenatal care coverage - at least once by skilled personnel                                                                                                                                                     | 5.5a           | 0.1461             | 0.0471                       | 0.322                                    | 2.008                         | 1.417                                        | 117            | 114              | 0.052                  | 0.240                  |
| Antenatal care coverage – at least four times by any provider                                                                                                                                                    | 5.5b           | 0.0724             | 0.0256                       | 0.354                                    | 1.106                         | 1.052                                        | 117            | 114              | 0.021                  | 0.124                  |
| Skilled attendant at delivery                                                                                                                                                                                    | 5.7            | 0.1291             | 0.0373                       | 0.289                                    | 1.399                         | 1.183                                        | 117            | 114              | 0.054                  | 0.204                  |
| Institutional deliveries                                                                                                                                                                                         | 5.8            | 0.0690             | 0.0216                       | 0.312                                    | 0.818                         | 0.904                                        | 117            | 114              | 0.026                  | 0.112                  |
| Literacy rate among young women                                                                                                                                                                                  | 7.1            | 0.3132             | 0.0618                       | 0.197                                    | 4.045                         | 2.011                                        | 229            | 229              | 0.190                  | 0.437                  |
| <b>UNDER-5s</b>                                                                                                                                                                                                  |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Tuberculosis immunization coverage                                                                                                                                                                               | -              | 0.1498             | 0.0225                       | 0.150                                    | 0.235                         | 0.485                                        | 70             | 60               | 0.105                  | 0.195                  |
| Received polio immunization                                                                                                                                                                                      | -              | 0.4813             | 0.1013                       | 0.210                                    | 2.385                         | 1.544                                        | 69             | 59               | 0.279                  | 0.684                  |
| Received DPT immunization                                                                                                                                                                                        | -              | 0.0801             | 0.0379                       | 0.473                                    | 1.129                         | 1.063                                        | 66             | 59               | 0.004                  | 0.156                  |
| Received measles immunization                                                                                                                                                                                    | -              | 0.0764             | 0.0336                       | 0.441                                    | 0.914                         | 0.956                                        | 68             | 58               | 0.009                  | 0.144                  |
| Received Hepatitis B immunization                                                                                                                                                                                | -              | 0.0161             | 0.0039                       | 0.243                                    | 0.056                         | 0.237                                        | 69             | 59               | 0.008                  | 0.024                  |
| Diarrhoea in the previous 2 weeks                                                                                                                                                                                | -              | 0.2181             | 0.0267                       | 0.122                                    | 1.693                         | 1.301                                        | 428            | 406              | 0.165                  | 0.271                  |

| <b>Table D9: Sampling errors: Khuzdar</b>                                                                                                                                                                        |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------|------------------------------|------------------------------------------|-------------------------------|----------------------------------------------|----------------|------------------|------------------------|------------------------|
| Standard errors, coefficients of variation, design effects ( <i>deff</i> ), square root of design effects ( <i>deft</i> ) and confidence intervals for selected indicators, Balochistan Province, Pakistan, 2010 |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
|                                                                                                                                                                                                                  | MICS Indicator | Value ( <i>r</i> ) | Standard error ( <i>se</i> ) | Coefficient of variation ( <i>se/r</i> ) | Design effect ( <i>deff</i> ) | Square root of design effect ( <i>deft</i> ) | Weighted count | Unweighted count | Confidence limits      |                        |
|                                                                                                                                                                                                                  |                |                    |                              |                                          |                               |                                              |                |                  | <i>r</i> - 2 <i>se</i> | <i>r</i> + 2 <i>se</i> |
| <b>HOUSEHOLDS</b>                                                                                                                                                                                                |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Iodized salt consumption                                                                                                                                                                                         | 2.16           | 0.0681             | 0.0162                       | 0.238                                    | 2.026                         | 1.423                                        | 867            | 489              | 0.036                  | 0.101                  |
| <b>HOUSEHOLD MEMBERS</b>                                                                                                                                                                                         |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Use of improved drinking water sources                                                                                                                                                                           | 4.1            | 0.7388             | 0.0480                       | 0.065                                    | 5.884                         | 2.426                                        | 5972           | 494              | 0.643                  | 0.835                  |
| Use of improved sanitation facilities                                                                                                                                                                            | 4.3            | 0.6873             | 0.0498                       | 0.072                                    | 5.684                         | 2.384                                        | 5972           | 494              | 0.588                  | 0.787                  |
| Secondary school net attendance ratio (adjusted)                                                                                                                                                                 | 7.5            | 0.0976             | 0.0209                       | 0.214                                    | 2.897                         | 1.702                                        | 1068           | 585              | 0.056                  | 0.139                  |
| <b>WOMEN</b>                                                                                                                                                                                                     |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Contraceptive prevalence                                                                                                                                                                                         | 5.3            | 0.0617             | 0.0100                       | 0.161                                    | 0.810                         | 0.900                                        | 823            | 473              | 0.042                  | 0.082                  |
| Antenatal care coverage - at least once by skilled personnel                                                                                                                                                     | 5.5a           | 0.2544             | 0.0318                       | 0.125                                    | 0.465                         | 0.682                                        | 152            | 88               | 0.191                  | 0.318                  |
| Antenatal care coverage – at least four times by any provider                                                                                                                                                    | 5.5b           | 0.0381             | 0.0196                       | 0.514                                    | 0.911                         | 0.955                                        | 152            | 88               | 0.000                  | 0.077                  |
| Skilled attendant at delivery                                                                                                                                                                                    | 5.7            | 0.0789             | 0.0233                       | 0.296                                    | 0.651                         | 0.807                                        | 152            | 88               | 0.032                  | 0.126                  |
| Institutional deliveries                                                                                                                                                                                         | 5.8            | 0.0252             | 0.0179                       | 0.711                                    | 1.137                         | 1.066                                        | 152            | 88               | 0.000                  | 0.061                  |
| Literacy rate among young women                                                                                                                                                                                  | 7.1            | 0.1772             | 0.0409                       | 0.231                                    | 3.060                         | 1.749                                        | 437            | 268              | 0.095                  | 0.259                  |
| <b>UNDER-5s</b>                                                                                                                                                                                                  |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Tuberculosis immunization coverage                                                                                                                                                                               | -              | 0.3046             | 0.0405                       | 0.133                                    | 0.380                         | 0.616                                        | 88             | 50               | 0.224                  | 0.386                  |
| Received polio immunization                                                                                                                                                                                      | -              | 0.1429             | 0.0198                       | 0.138                                    | 0.166                         | 0.408                                        | 92             | 53               | 0.103                  | 0.182                  |
| Received DPT immunization                                                                                                                                                                                        | -              | 0.0449             | 0.0209                       | 0.464                                    | 0.496                         | 0.705                                        | 88             | 50               | 0.003                  | 0.087                  |
| Received measles immunization                                                                                                                                                                                    | -              | 0.2325             | 0.0460                       | 0.198                                    | 0.533                         | 0.730                                        | 81             | 46               | 0.141                  | 0.324                  |
| Received Hepatitis B immunization                                                                                                                                                                                | -              | 0.0272             | 0.0019                       | 0.071                                    | 0.006                         | 0.080                                        | 83             | 46               | 0.023                  | 0.031                  |
| Diarrhoea in the previous 2 weeks                                                                                                                                                                                | -              | 0.2175             | 0.0216                       | 0.099                                    | 1.036                         | 1.018                                        | 622            | 378              | 0.174                  | 0.261                  |

| <b>Table D10: Sampling errors: Awaran</b>                                                                                                                                                                        |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------|------------------------------|------------------------------------------|-------------------------------|----------------------------------------------|----------------|------------------|------------------------|------------------------|
| Standard errors, coefficients of variation, design effects ( <i>deff</i> ), square root of design effects ( <i>deft</i> ) and confidence intervals for selected indicators, Balochistan Province, Pakistan, 2010 |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
|                                                                                                                                                                                                                  | MICS Indicator | Value ( <i>r</i> ) | Standard error ( <i>se</i> ) | Coefficient of variation ( <i>se/r</i> ) | Design effect ( <i>deff</i> ) | Square root of design effect ( <i>deft</i> ) | Weighted count | Unweighted count | Confidence limits      |                        |
|                                                                                                                                                                                                                  |                |                    |                              |                                          |                               |                                              |                |                  | <i>r</i> - 2 <i>se</i> | <i>r</i> + 2 <i>se</i> |
| <b>HOUSEHOLDS</b>                                                                                                                                                                                                |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Iodized salt consumption                                                                                                                                                                                         | 2.16           | 0.0070             | 0.0051                       | 0.734                                    | 1.019                         | 1.009                                        | 242            | 270              | 0.000                  | 0.017                  |
| <b>HOUSEHOLD MEMBERS</b>                                                                                                                                                                                         |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Use of improved drinking water sources                                                                                                                                                                           | 4.1            | 0.4716             | 0.0723                       | 0.153                                    | 5.667                         | 2.381                                        | 1308           | 271              | 0.327                  | 0.616                  |
| Use of improved sanitation facilities                                                                                                                                                                            | 4.3            | 0.4168             | 0.0845                       | 0.203                                    | 7.933                         | 2.816                                        | 1308           | 271              | 0.248                  | 0.586                  |
| Secondary school net attendance ratio (adjusted)                                                                                                                                                                 | 7.5            | 0.2452             | 0.0812                       | 0.331                                    | 6.549                         | 2.559                                        | 142            | 185              | 0.083                  | 0.407                  |
| <b>WOMEN</b>                                                                                                                                                                                                     |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Contraceptive prevalence                                                                                                                                                                                         | 5.3            | 0.1856             | 0.0469                       | 0.253                                    | 3.358                         | 1.833                                        | 199            | 232              | 0.092                  | 0.279                  |
| Antenatal care coverage - at least once by skilled personnel                                                                                                                                                     | 5.5a           | 0.3054             | 0.0826                       | 0.270                                    | 0.836                         | 0.914                                        | 23             | 27               | 0.140                  | 0.471                  |
| Antenatal care coverage – at least four times by any provider                                                                                                                                                    | 5.5b           | 0.0896             | 0.0615                       | 0.686                                    | 1.206                         | 1.098                                        | 23             | 27               | 0.000                  | 0.213                  |
| Skilled attendant at delivery                                                                                                                                                                                    | 5.7            | 0.0266             | 0.0035                       | 0.132                                    | 0.012                         | 0.111                                        | 23             | 27               | 0.020                  | 0.034                  |
| Institutional deliveries                                                                                                                                                                                         | 5.8            | 0.0266             | 0.0035                       | 0.132                                    | 0.012                         | 0.111                                        | 23             | 27               | 0.020                  | 0.034                  |
| Literacy rate among young women                                                                                                                                                                                  | 7.1            | 0.2212             | 0.0826                       | 0.374                                    | 3.924                         | 1.981                                        | 81             | 100              | 0.056                  | 0.386                  |
| <b>UNDER-5s</b>                                                                                                                                                                                                  |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Tuberculosis immunization coverage                                                                                                                                                                               | -              | 0.0726             | 0.0054                       | 0.075                                    | 0.008                         | 0.091                                        | 17             | 20               | 0.062                  | 0.083                  |
| Received polio immunization                                                                                                                                                                                      | -              | 0.0000             | 0.0000                       | .                                        | .                             | .                                            | 17             | 20               | 0.000                  | 0.000                  |
| Received DPT immunization                                                                                                                                                                                        | -              | 0.0726             | 0.0054                       | 0.075                                    | 0.008                         | 0.091                                        | 17             | 20               | 0.062                  | 0.083                  |
| Received measles immunization                                                                                                                                                                                    | -              | 0.1349             | 0.0094                       | 0.070                                    | 0.016                         | 0.126                                        | 18             | 22               | 0.116                  | 0.154                  |
| Received Hepatitis B immunization                                                                                                                                                                                | -              | 0.0348             | 0.0025                       | 0.072                                    | 0.004                         | 0.061                                        | 18             | 21               | 0.030                  | 0.040                  |
| Diarrhoea in the previous 2 weeks                                                                                                                                                                                | -              | 0.3592             | 0.0536                       | 0.149                                    | 2.085                         | 1.444                                        | 148            | 168              | 0.252                  | 0.466                  |

**Table D11: Sampling errors: Lasbela**

Standard errors, coefficients of variation, design effects (*deff*), square root of design effects (*deft*) and confidence intervals for selected indicators, Balochistan Province, Pakistan, 2010

|                                                               | MICS Indicator | Value ( <i>r</i> ) | Standard error ( <i>se</i> ) | Coefficient of variation ( <i>se/r</i> ) | Design effect ( <i>deff</i> ) | Square root of design effect ( <i>deft</i> ) | Weighted count | Unweighted count | Confidence limits      |                        |
|---------------------------------------------------------------|----------------|--------------------|------------------------------|------------------------------------------|-------------------------------|----------------------------------------------|----------------|------------------|------------------------|------------------------|
|                                                               |                |                    |                              |                                          |                               |                                              |                |                  | <i>r</i> - 2 <i>se</i> | <i>r</i> + 2 <i>se</i> |
| HOUSEHOLDS                                                    |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Iodized salt consumption                                      | 2.16           | 0.1021             | 0.0177                       | 0.173                                    | 1.540                         | 1.241                                        | 563            | 452              | 0.067                  | 0.137                  |
| HOUSEHOLD MEMBERS                                             |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Use of improved drinking water sources                        | 4.1            | 0.8877             | 0.0374                       | 0.042                                    | 6.423                         | 2.534                                        | 3544           | 458              | 0.813                  | 0.963                  |
| Use of improved sanitation facilities                         | 4.3            | 0.5756             | 0.0639                       | 0.111                                    | 7.642                         | 2.764                                        | 3544           | 458              | 0.448                  | 0.703                  |
| Secondary school net attendance ratio (adjusted)              | 7.5            | 0.3144             | 0.0448                       | 0.143                                    | 4.354                         | 2.087                                        | 584            | 468              | 0.225                  | 0.404                  |
| WOMEN                                                         |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Contraceptive prevalence                                      | 5.3            | 0.2315             | 0.0224                       | 0.097                                    | 1.151                         | 1.073                                        | 486            | 411              | 0.187                  | 0.276                  |
| Antenatal care coverage - at least once by skilled personnel  | 5.5a           | 0.4679             | 0.0585                       | 0.125                                    | 1.539                         | 1.240                                        | 133            | 113              | 0.351                  | 0.585                  |
| Antenatal care coverage – at least four times by any provider | 5.5b           | 0.0845             | 0.0247                       | 0.293                                    | 0.886                         | 0.941                                        | 133            | 113              | 0.035                  | 0.134                  |
| Skilled attendant at delivery                                 | 5.7            | 0.2889             | 0.0526                       | 0.182                                    | 1.509                         | 1.228                                        | 133            | 113              | 0.184                  | 0.394                  |
| Institutional deliveries                                      | 5.8            | 0.2410             | 0.0474                       | 0.197                                    | 1.376                         | 1.173                                        | 133            | 113              | 0.146                  | 0.336                  |
| Literacy rate among young women                               | 7.1            | 0.3463             | 0.0511                       | 0.148                                    | 3.430                         | 1.852                                        | 357            | 298              | 0.244                  | 0.449                  |
| UNDER-5s                                                      |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Tuberculosis immunization coverage                            | -              | 0.5703             | 0.0697                       | 0.122                                    | 0.931                         | 0.965                                        | 60             | 48               | 0.431                  | 0.710                  |
| Received polio immunization                                   | -              | 0.7950             | 0.0402                       | 0.051                                    | 0.495                         | 0.704                                        | 65             | 51               | 0.715                  | 0.875                  |
| Received DPT immunization                                     | -              | 0.3084             | 0.0520                       | 0.169                                    | 0.571                         | 0.755                                        | 56             | 46               | 0.204                  | 0.412                  |
| Received measles immunization                                 | -              | 0.6417             | 0.0590                       | 0.092                                    | 0.713                         | 0.844                                        | 61             | 48               | 0.524                  | 0.760                  |
| Received Hepatitis B immunization                             | -              | 0.1797             | 0.0560                       | 0.312                                    | 1.001                         | 1.001                                        | 61             | 48               | 0.068                  | 0.292                  |
| Diarrhoea in the previous 2 weeks                             | -              | 0.3011             | 0.0253                       | 0.084                                    | 0.943                         | 0.971                                        | 372            | 312              | 0.251                  | 0.352                  |



**Table D12: Sampling errors: Jafarabad**

Standard errors, coefficients of variation, design effects (*deff*), square root of design effects (*deft*) and confidence intervals for selected indicators, Balochistan Province, Pakistan, 2010

|                                                               | MICS Indicator | Value ( <i>r</i> ) | Standard error ( <i>se</i> ) | Coefficient of variation ( <i>se/r</i> ) | Design effect ( <i>deff</i> ) | Square root of design effect ( <i>deft</i> ) | Weighted count | Unweighted count | Confidence limits      |                        |
|---------------------------------------------------------------|----------------|--------------------|------------------------------|------------------------------------------|-------------------------------|----------------------------------------------|----------------|------------------|------------------------|------------------------|
|                                                               |                |                    |                              |                                          |                               |                                              |                |                  | <i>r</i> - 2 <i>se</i> | <i>r</i> + 2 <i>se</i> |
| HOUSEHOLDS                                                    |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Iodized salt consumption                                      | 2.16           | 0.2465             | 0.0339                       | 0.137                                    | 2.396                         | 1.548                                        | 711            | 389              | 0.179                  | 0.314                  |
| HOUSEHOLD MEMBERS                                             |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Use of improved drinking water sources                        | 4.1            | 0.5739             | 0.0439                       | 0.076                                    | 3.102                         | 1.761                                        | 6322           | 395              | 0.486                  | 0.662                  |
| Use of improved sanitation facilities                         | 4.3            | 0.4871             | 0.0459                       | 0.094                                    | 3.326                         | 1.824                                        | 6322           | 395              | 0.395                  | 0.579                  |
| Secondary school net attendance ratio (adjusted)              | 7.5            | 0.2231             | 0.0374                       | 0.168                                    | 3.684                         | 1.919                                        | 848            | 458              | 0.148                  | 0.298                  |
| WOMEN                                                         |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Contraceptive prevalence                                      | 5.3            | 0.1221             | 0.0178                       | 0.145                                    | 1.347                         | 1.160                                        | 884            | 459              | 0.087                  | 0.158                  |
| Antenatal care coverage - at least once by skilled personnel  | 5.5a           | 0.3733             | 0.0628                       | 0.168                                    | 2.093                         | 1.447                                        | 241            | 125              | 0.248                  | 0.499                  |
| Antenatal care coverage – at least four times by any provider | 5.5b           | 0.1408             | 0.0380                       | 0.270                                    | 1.480                         | 1.216                                        | 241            | 125              | 0.065                  | 0.217                  |
| Skilled attendant at delivery                                 | 5.7            | 0.3090             | 0.0513                       | 0.166                                    | 1.527                         | 1.236                                        | 241            | 125              | 0.206                  | 0.412                  |
| Institutional deliveries                                      | 5.8            | 0.2676             | 0.0448                       | 0.167                                    | 1.270                         | 1.127                                        | 241            | 125              | 0.178                  | 0.357                  |
| Literacy rate among young women                               | 7.1            | 0.3245             | 0.0686                       | 0.212                                    | 5.417                         | 2.327                                        | 489            | 253              | 0.187                  | 0.462                  |
| UNDER-5s                                                      |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Tuberculosis immunization coverage                            | -              | 0.4308             | 0.0958                       | 0.222                                    | 2.433                         | 1.560                                        | 129            | 66               | 0.239                  | 0.622                  |
| Received polio immunization                                   | -              | 0.5216             | 0.0887                       | 0.170                                    | 2.051                         | 1.432                                        | 131            | 66               | 0.344                  | 0.699                  |
| Received DPT immunization                                     | -              | 0.1862             | 0.0582                       | 0.312                                    | 1.519                         | 1.232                                        | 134            | 69               | 0.070                  | 0.303                  |
| Received measles immunization                                 | -              | 0.2130             | 0.0907                       | 0.426                                    | 3.139                         | 1.772                                        | 126            | 65               | 0.032                  | 0.394                  |
| Received Hepatitis B immunization                             | -              | 0.0549             | 0.0269                       | 0.490                                    | 0.908                         | 0.953                                        | 129            | 66               | 0.001                  | 0.109                  |
| Diarrhoea in the previous 2 weeks                             | -              | 0.1316             | 0.0126                       | 0.096                                    | 0.579                         | 0.761                                        | 810            | 417              | 0.106                  | 0.157                  |

| <b>Table D13: Sampling errors: Naseerabad</b>                                                                                                                                                                    |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------|------------------------------|------------------------------------------|-------------------------------|----------------------------------------------|----------------|------------------|------------------------|------------------------|
| Standard errors, coefficients of variation, design effects ( <i>deff</i> ), square root of design effects ( <i>deft</i> ) and confidence intervals for selected indicators, Balochistan Province, Pakistan, 2010 |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
|                                                                                                                                                                                                                  | MICS Indicator | Value ( <i>r</i> ) | Standard error ( <i>se</i> ) | Coefficient of variation ( <i>se/r</i> ) | Design effect ( <i>deff</i> ) | Square root of design effect ( <i>deft</i> ) | Weighted count | Unweighted count | Confidence limits      |                        |
|                                                                                                                                                                                                                  |                |                    |                              |                                          |                               |                                              |                |                  | <i>r</i> - 2 <i>se</i> | <i>r</i> + 2 <i>se</i> |
| <b>HOUSEHOLDS</b>                                                                                                                                                                                                |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Iodized salt consumption                                                                                                                                                                                         | 2.16           | 0.0647             | 0.0152                       | 0.235                                    | 1.403                         | 1.185                                        | 427            | 368              | 0.034                  | 0.095                  |
| <b>HOUSEHOLD MEMBERS</b>                                                                                                                                                                                         |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Use of improved drinking water sources                                                                                                                                                                           | 4.1            | 0.1593             | 0.0450                       | 0.282                                    | 5.543                         | 2.354                                        | 3560           | 368              | 0.069                  | 0.249                  |
| Use of improved sanitation facilities                                                                                                                                                                            | 4.3            | 0.4127             | 0.0305                       | 0.074                                    | 1.410                         | 1.187                                        | 3560           | 368              | 0.352                  | 0.474                  |
| Secondary school net attendance ratio (adjusted)                                                                                                                                                                 | 7.5            | 0.1692             | 0.0281                       | 0.166                                    | 2.879                         | 1.697                                        | 615            | 512              | 0.113                  | 0.226                  |
| <b>WOMEN</b>                                                                                                                                                                                                     |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Contraceptive prevalence                                                                                                                                                                                         | 5.3            | 0.2099             | 0.0227                       | 0.108                                    | 1.328                         | 1.152                                        | 494            | 429              | 0.165                  | 0.255                  |
| Antenatal care coverage - at least once by skilled personnel                                                                                                                                                     | 5.5a           | 0.2996             | 0.0446                       | 0.149                                    | 1.022                         | 1.011                                        | 130            | 109              | 0.211                  | 0.389                  |
| Antenatal care coverage – at least four times by any provider                                                                                                                                                    | 5.5b           | 0.1120             | 0.0305                       | 0.273                                    | 1.012                         | 1.006                                        | 130            | 109              | 0.051                  | 0.173                  |
| Skilled attendant at delivery                                                                                                                                                                                    | 5.7            | 0.2174             | 0.0363                       | 0.167                                    | 0.838                         | 0.915                                        | 130            | 109              | 0.145                  | 0.290                  |
| Institutional deliveries                                                                                                                                                                                         | 5.8            | 0.1971             | 0.0378                       | 0.192                                    | 0.974                         | 0.987                                        | 130            | 109              | 0.122                  | 0.273                  |
| Literacy rate among young women                                                                                                                                                                                  | 7.1            | 0.1436             | 0.0286                       | 0.199                                    | 2.108                         | 1.452                                        | 381            | 318              | 0.086                  | 0.201                  |
| <b>UNDER-5s</b>                                                                                                                                                                                                  |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Tuberculosis immunization coverage                                                                                                                                                                               | -              | 0.4887             | 0.0477                       | 0.098                                    | 0.556                         | 0.746                                        | 78             | 62               | 0.393                  | 0.584                  |
| Received polio immunization                                                                                                                                                                                      | -              | 0.6427             | 0.0763                       | 0.119                                    | 1.497                         | 1.223                                        | 75             | 60               | 0.490                  | 0.795                  |
| Received DPT immunization                                                                                                                                                                                        | -              | 0.1933             | 0.0430                       | 0.222                                    | 0.675                         | 0.822                                        | 73             | 58               | 0.107                  | 0.279                  |
| Received measles immunization                                                                                                                                                                                    | -              | 0.2361             | 0.0438                       | 0.186                                    | 0.606                         | 0.779                                        | 73             | 58               | 0.149                  | 0.324                  |
| Received Hepatitis B immunization                                                                                                                                                                                | -              | 0.1495             | 0.0422                       | 0.283                                    | 0.786                         | 0.887                                        | 72             | 57               | 0.065                  | 0.234                  |
| Diarrhoea in the previous 2 weeks                                                                                                                                                                                | -              | 0.3818             | 0.0354                       | 0.093                                    | 1.838                         | 1.356                                        | 411            | 348              | 0.311                  | 0.452                  |

| <b>Table D14: Sampling errors: Jhal Magsi</b>                                                                                                                                                                    |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------|------------------------------|------------------------------------------|-------------------------------|----------------------------------------------|----------------|------------------|------------------------|------------------------|
| Standard errors, coefficients of variation, design effects ( <i>deff</i> ), square root of design effects ( <i>deft</i> ) and confidence intervals for selected indicators, Balochistan Province, Pakistan, 2010 |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
|                                                                                                                                                                                                                  | MICS Indicator | Value ( <i>r</i> ) | Standard error ( <i>se</i> ) | Coefficient of variation ( <i>se/r</i> ) | Design effect ( <i>deff</i> ) | Square root of design effect ( <i>deft</i> ) | Weighted count | Unweighted count | Confidence limits      |                        |
|                                                                                                                                                                                                                  |                |                    |                              |                                          |                               |                                              |                |                  | <i>r</i> - 2 <i>se</i> | <i>r</i> + 2 <i>se</i> |
| <b>HOUSEHOLDS</b>                                                                                                                                                                                                |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Iodized salt consumption                                                                                                                                                                                         | 2.16           | 0.0363             | 0.0100                       | 0.275                                    | 0.854                         | 0.924                                        | 185            | 301              | 0.016                  | 0.056                  |
| <b>HOUSEHOLD MEMBERS</b>                                                                                                                                                                                         |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Use of improved drinking water sources                                                                                                                                                                           | 4.1            | 0.2351             | 0.0408                       | 0.174                                    | 2.842                         | 1.686                                        | 1472           | 308              | 0.154                  | 0.317                  |
| Use of improved sanitation facilities                                                                                                                                                                            | 4.3            | 0.4349             | 0.0350                       | 0.080                                    | 1.530                         | 1.237                                        | 1472           | 308              | 0.365                  | 0.505                  |
| Secondary school net attendance ratio (adjusted)                                                                                                                                                                 | 7.5            | 0.1747             | 0.0205                       | 0.117                                    | 1.136                         | 1.066                                        | 243            | 390              | 0.134                  | 0.216                  |
| <b>WOMEN</b>                                                                                                                                                                                                     |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Contraceptive prevalence                                                                                                                                                                                         | 5.3            | 0.2004             | 0.0180                       | 0.090                                    | 0.603                         | 0.776                                        | 188            | 300              | 0.164                  | 0.236                  |
| Antenatal care coverage - at least once by skilled personnel                                                                                                                                                     | 5.5a           | 0.3200             | 0.0840                       | 0.263                                    | 1.168                         | 1.081                                        | 23             | 37               | 0.152                  | 0.488                  |
| Antenatal care coverage – at least four times by any provider                                                                                                                                                    | 5.5b           | 0.0610             | 0.0420                       | 0.689                                    | 1.110                         | 1.053                                        | 23             | 37               | 0.000                  | 0.145                  |
| Skilled attendant at delivery                                                                                                                                                                                    | 5.7            | 0.0937             | 0.0365                       | 0.390                                    | 0.565                         | 0.752                                        | 23             | 37               | 0.021                  | 0.167                  |
| Institutional deliveries                                                                                                                                                                                         | 5.8            | 0.0937             | 0.0365                       | 0.390                                    | 0.565                         | 0.752                                        | 23             | 37               | 0.021                  | 0.167                  |
| Literacy rate among young women                                                                                                                                                                                  | 7.1            | 0.1439             | 0.0309                       | 0.214                                    | 1.616                         | 1.271                                        | 136            | 210              | 0.082                  | 0.206                  |
| <b>UNDER-5s</b>                                                                                                                                                                                                  |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Tuberculosis immunization coverage                                                                                                                                                                               | -              | 0.5571             | 0.1116                       | 0.200                                    | 1.061                         | 1.030                                        | 15             | 22               | 0.334                  | 0.780                  |
| Received polio immunization                                                                                                                                                                                      | -              | 0.7551             | 0.0637                       | 0.084                                    | 0.526                         | 0.725                                        | 16             | 25               | 0.628                  | 0.882                  |
| Received DPT immunization                                                                                                                                                                                        | -              | 0.3590             | 0.0966                       | 0.269                                    | 0.812                         | 0.901                                        | 13             | 21               | 0.166                  | 0.552                  |
| Received measles immunization                                                                                                                                                                                    | -              | 0.2574             | 0.1075                       | 0.418                                    | 1.088                         | 1.043                                        | 12             | 19               | 0.042                  | 0.472                  |
| Received Hepatitis B immunization                                                                                                                                                                                | -              | 0.2573             | 0.1236                       | 0.480                                    | 1.519                         | 1.233                                        | 13             | 20               | 0.010                  | 0.505                  |
| Diarrhoea in the previous 2 weeks                                                                                                                                                                                | -              | 0.3797             | 0.0454                       | 0.120                                    | 1.582                         | 1.258                                        | 114            | 182              | 0.289                  | 0.470                  |

| <b>Table D15: Sampling errors: Bolan</b>                                                                                                                                                                         |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------|------------------------------|------------------------------------------|-------------------------------|----------------------------------------------|----------------|------------------|------------------------|------------------------|
| Standard errors, coefficients of variation, design effects ( <i>deff</i> ), square root of design effects ( <i>deft</i> ) and confidence intervals for selected indicators, Balochistan Province, Pakistan, 2010 |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
|                                                                                                                                                                                                                  | MICS Indicator | Value ( <i>r</i> ) | Standard error ( <i>se</i> ) | Coefficient of variation ( <i>se/r</i> ) | Design effect ( <i>deff</i> ) | Square root of design effect ( <i>deft</i> ) | Weighted count | Unweighted count | Confidence limits      |                        |
|                                                                                                                                                                                                                  |                |                    |                              |                                          |                               |                                              |                |                  | <i>r</i> - 2 <i>se</i> | <i>r</i> + 2 <i>se</i> |
| <b>HOUSEHOLDS</b>                                                                                                                                                                                                |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Iodized salt consumption                                                                                                                                                                                         | 2.16           | 0.0298             | 0.0066                       | 0.223                                    | 0.658                         | 0.811                                        | 511            | 432              | 0.017                  | 0.043                  |
| <b>HOUSEHOLD MEMBERS</b>                                                                                                                                                                                         |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Use of improved drinking water sources                                                                                                                                                                           | 4.1            | 0.4477             | 0.0617                       | 0.138                                    | 6.659                         | 2.581                                        | 3788           | 434              | 0.324                  | 0.571                  |
| Use of improved sanitation facilities                                                                                                                                                                            | 4.3            | 0.5323             | 0.0545                       | 0.102                                    | 5.163                         | 2.272                                        | 3788           | 434              | 0.423                  | 0.641                  |
| Secondary school net attendance ratio (adjusted)                                                                                                                                                                 | 7.5            | 0.2071             | 0.0207                       | 0.100                                    | 1.258                         | 1.122                                        | 564            | 483              | 0.166                  | 0.248                  |
| <b>WOMEN</b>                                                                                                                                                                                                     |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Contraceptive prevalence                                                                                                                                                                                         | 5.3            | 0.0886             | 0.0226                       | 0.255                                    | 2.937                         | 1.714                                        | 548            | 465              | 0.043                  | 0.134                  |
| Antenatal care coverage - at least once by skilled personnel                                                                                                                                                     | 5.5a           | 0.2879             | 0.0800                       | 0.278                                    | 2.374                         | 1.541                                        | 82             | 77               | 0.128                  | 0.448                  |
| Antenatal care coverage – at least four times by any provider                                                                                                                                                    | 5.5b           | 0.0529             | 0.0234                       | 0.442                                    | 0.832                         | 0.912                                        | 82             | 77               | 0.006                  | 0.100                  |
| Skilled attendant at delivery                                                                                                                                                                                    | 5.7            | 0.2095             | 0.0590                       | 0.282                                    | 1.598                         | 1.264                                        | 82             | 77               | 0.091                  | 0.327                  |
| Institutional deliveries                                                                                                                                                                                         | 5.8            | 0.1401             | 0.0332                       | 0.237                                    | 0.694                         | 0.833                                        | 82             | 77               | 0.074                  | 0.206                  |
| Literacy rate among young women                                                                                                                                                                                  | 7.1            | 0.2066             | 0.0424                       | 0.205                                    | 3.318                         | 1.822                                        | 362            | 304              | 0.122                  | 0.291                  |
| <b>UNDER-5s</b>                                                                                                                                                                                                  |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Tuberculosis immunization coverage                                                                                                                                                                               | -              | 0.4484             | 0.1198                       | 0.267                                    | 2.610                         | 1.616                                        | 54             | 46               | 0.209                  | 0.688                  |
| Received polio immunization                                                                                                                                                                                      | -              | 0.5398             | 0.0888                       | 0.164                                    | 1.459                         | 1.208                                        | 55             | 47               | 0.362                  | 0.717                  |
| Received DPT immunization                                                                                                                                                                                        | -              | 0.2986             | 0.1137                       | 0.381                                    | 2.652                         | 1.629                                        | 52             | 44               | 0.071                  | 0.526                  |
| Received measles immunization                                                                                                                                                                                    | -              | 0.1874             | 0.0769                       | 0.410                                    | 1.669                         | 1.292                                        | 52             | 44               | 0.034                  | 0.341                  |
| Received Hepatitis B immunization                                                                                                                                                                                | -              | 0.1044             | 0.0633                       | 0.606                                    | 1.757                         | 1.326                                        | 50             | 42               | 0.000                  | 0.231                  |
| Diarrhoea in the previous 2 weeks                                                                                                                                                                                | -              | 0.2185             | 0.0238                       | 0.109                                    | 1.155                         | 1.075                                        | 408            | 348              | 0.171                  | 0.266                  |

| <b>Table D16: Sampling errors: Sibi</b>                                                                                                                                                                          |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------|------------------------------|------------------------------------------|-------------------------------|----------------------------------------------|----------------|------------------|------------------------|------------------------|
| Standard errors, coefficients of variation, design effects ( <i>deff</i> ), square root of design effects ( <i>deft</i> ) and confidence intervals for selected indicators, Balochistan Province, Pakistan, 2010 |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
|                                                                                                                                                                                                                  | MICS Indicator | Value ( <i>r</i> ) | Standard error ( <i>se</i> ) | Coefficient of variation ( <i>se/r</i> ) | Design effect ( <i>deff</i> ) | Square root of design effect ( <i>deft</i> ) | Weighted count | Unweighted count | Confidence limits      |                        |
|                                                                                                                                                                                                                  |                |                    |                              |                                          |                               |                                              |                |                  | <i>r</i> - 2 <i>se</i> | <i>r</i> + 2 <i>se</i> |
| <b>HOUSEHOLDS</b>                                                                                                                                                                                                |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Iodized salt consumption                                                                                                                                                                                         | 2.16           | 0.1805             | 0.0306                       | 0.169                                    | 2.478                         | 1.574                                        | 157            | 393              | 0.119                  | 0.242                  |
| <b>HOUSEHOLD MEMBERS</b>                                                                                                                                                                                         |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Use of improved drinking water sources                                                                                                                                                                           | 4.1            | 0.7968             | 0.0638                       | 0.080                                    | 9.994                         | 3.161                                        | 1187           | 399              | 0.669                  | 0.924                  |
| Use of improved sanitation facilities                                                                                                                                                                            | 4.3            | 0.7440             | 0.0425                       | 0.057                                    | 3.780                         | 1.944                                        | 1187           | 399              | 0.659                  | 0.829                  |
| Secondary school net attendance ratio (adjusted)                                                                                                                                                                 | 7.5            | 0.3770             | 0.0394                       | 0.104                                    | 2.938                         | 1.714                                        | 182            | 446              | 0.298                  | 0.456                  |
| <b>WOMEN</b>                                                                                                                                                                                                     |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Contraceptive prevalence                                                                                                                                                                                         | 5.3            | 0.1522             | 0.0315                       | 0.207                                    | 2.831                         | 1.682                                        | 153            | 369              | 0.089                  | 0.215                  |
| Antenatal care coverage - at least once by skilled personnel                                                                                                                                                     | 5.5a           | 0.5385             | 0.0636                       | 0.118                                    | 1.319                         | 1.148                                        | 35             | 82               | 0.411                  | 0.666                  |
| Antenatal care coverage – at least four times by any provider                                                                                                                                                    | 5.5b           | 0.2555             | 0.0518                       | 0.203                                    | 1.141                         | 1.068                                        | 35             | 82               | 0.152                  | 0.359                  |
| Skilled attendant at delivery                                                                                                                                                                                    | 5.7            | 0.4704             | 0.0633                       | 0.135                                    | 1.302                         | 1.141                                        | 35             | 82               | 0.344                  | 0.597                  |
| Institutional deliveries                                                                                                                                                                                         | 5.8            | 0.4563             | 0.0593                       | 0.130                                    | 1.149                         | 1.072                                        | 35             | 82               | 0.338                  | 0.575                  |
| Literacy rate among young women                                                                                                                                                                                  | 7.1            | 0.4634             | 0.0587                       | 0.127                                    | 2.961                         | 1.721                                        | 89             | 215              | 0.346                  | 0.581                  |
| <b>UNDER-5s</b>                                                                                                                                                                                                  |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Tuberculosis immunization coverage                                                                                                                                                                               | -              | 0.3661             | 0.0661                       | 0.180                                    | 0.903                         | 0.950                                        | 21             | 49               | 0.234                  | 0.498                  |
| Received polio immunization                                                                                                                                                                                      | -              | 0.5647             | 0.0577                       | 0.102                                    | 0.704                         | 0.839                                        | 23             | 53               | 0.449                  | 0.680                  |
| Received DPT immunization                                                                                                                                                                                        | -              | 0.1871             | 0.0297                       | 0.159                                    | 0.278                         | 0.527                                        | 21             | 49               | 0.128                  | 0.246                  |
| Received measles immunization                                                                                                                                                                                    | -              | 0.3227             | 0.0603                       | 0.187                                    | 0.765                         | 0.874                                        | 20             | 47               | 0.202                  | 0.443                  |
| Received Hepatitis B immunization                                                                                                                                                                                | -              | 0.1511             | 0.0473                       | 0.313                                    | 0.804                         | 0.896                                        | 20             | 47               | 0.056                  | 0.246                  |
| Diarrhoea in the previous 2 weeks                                                                                                                                                                                | -              | 0.2225             | 0.0276                       | 0.124                                    | 1.279                         | 1.131                                        | 127            | 292              | 0.167                  | 0.278                  |

| <b>Table D17: Sampling errors: Dera Bugti</b>                                                                                                                                                                    |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------|------------------------------|------------------------------------------|-------------------------------|----------------------------------------------|----------------|------------------|------------------------|------------------------|
| Standard errors, coefficients of variation, design effects ( <i>deff</i> ), square root of design effects ( <i>deff</i> ) and confidence intervals for selected indicators, Balochistan Province, Pakistan, 2010 |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
|                                                                                                                                                                                                                  | MICS Indicator | Value ( <i>r</i> ) | Standard error ( <i>se</i> ) | Coefficient of variation ( <i>se/r</i> ) | Design effect ( <i>deff</i> ) | Square root of design effect ( <i>deff</i> ) | Weighted count | Unweighted count | Confidence limits      |                        |
|                                                                                                                                                                                                                  |                |                    |                              |                                          |                               |                                              |                |                  | <i>r</i> - 2 <i>se</i> | <i>r</i> + 2 <i>se</i> |
| <b>HOUSEHOLDS</b>                                                                                                                                                                                                |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Iodized salt consumption                                                                                                                                                                                         | 2.16           | 0.0000             | 0.0000                       | .                                        | .                             | .                                            | 342            | 304              | 0.000                  | 0.000                  |
| <b>HOUSEHOLD MEMBERS</b>                                                                                                                                                                                         |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Use of improved drinking water sources                                                                                                                                                                           | 4.1            | 0.8294             | 0.0290                       | 0.035                                    | 1.809                         | 1.345                                        | 2861           | 306              | 0.771                  | 0.887                  |
| Use of improved sanitation facilities                                                                                                                                                                            | 4.3            | 0.7501             | 0.0409                       | 0.055                                    | 2.721                         | 1.649                                        | 2861           | 306              | 0.668                  | 0.832                  |
| Secondary school net attendance ratio (adjusted)                                                                                                                                                                 | 7.5            | 0.2306             | 0.0129                       | 0.056                                    | 0.383                         | 0.619                                        | 458            | 408              | 0.205                  | 0.256                  |
| <b>WOMEN</b>                                                                                                                                                                                                     |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Contraceptive prevalence                                                                                                                                                                                         | 5.3            | 0.0028             | 0.0029                       | 1.058                                    | 0.789                         | 0.888                                        | 271            | 255              | 0.000                  | 0.009                  |
| Antenatal care coverage - at least once by skilled personnel                                                                                                                                                     | 5.5a           | 0.2255             | 0.1236                       | 0.548                                    | 2.098                         | 1.448                                        | 28             | 25               | 0.000                  | 0.473                  |
| Antenatal care coverage – at least four times by any provider                                                                                                                                                    | 5.5b           | 0.0381             | 0.0393                       | 1.033                                    | 1.012                         | 1.006                                        | 28             | 25               | 0.000                  | 0.117                  |
| Skilled attendant at delivery                                                                                                                                                                                    | 5.7            | 0.1369             | 0.0729                       | 0.533                                    | 1.081                         | 1.040                                        | 28             | 25               | 0.000                  | 0.283                  |
| Institutional deliveries                                                                                                                                                                                         | 5.8            | 0.0989             | 0.0628                       | 0.635                                    | 1.063                         | 1.031                                        | 28             | 25               | 0.000                  | 0.225                  |
| Literacy rate among young women                                                                                                                                                                                  | 7.1            | 0.0782             | 0.0569                       | 0.727                                    | 1.660                         | 1.288                                        | 39             | 38               | 0.000                  | 0.192                  |
| <b>UNDER-5s</b>                                                                                                                                                                                                  |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Tuberculosis immunization coverage                                                                                                                                                                               | -              | 0.0000             | 0.0000                       | .                                        | .                             | .                                            | 28             | 24               | 0.000                  | 0.000                  |
| Received polio immunization                                                                                                                                                                                      | -              | 0.0000             | 0.0000                       | .                                        | .                             | .                                            | 28             | 24               | 0.000                  | 0.000                  |
| Received DPT immunization                                                                                                                                                                                        | -              | 0.0000             | 0.0000                       | .                                        | .                             | .                                            | 28             | 24               | 0.000                  | 0.000                  |
| Received measles immunization                                                                                                                                                                                    | -              | 0.0000             | 0.0000                       | .                                        | .                             | .                                            | 28             | 24               | 0.000                  | 0.000                  |
| Received Hepatitis B immunization                                                                                                                                                                                | -              | 0.0000             | 0.0000                       | .                                        | .                             | .                                            | 28             | 24               | 0.000                  | 0.000                  |
| Diarrhoea in the previous 2 weeks                                                                                                                                                                                | -              | 0.5294             | 0.0333                       | 0.063                                    | 1.089                         | 1.044                                        | 258            | 246              | 0.463                  | 0.596                  |

| <b>Table D18: Sampling errors: Noshki</b>                                                                                                                                                                        |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------|------------------------------|------------------------------------------|-------------------------------|----------------------------------------------|----------------|------------------|------------------------|------------------------|
| Standard errors, coefficients of variation, design effects ( <i>deff</i> ), square root of design effects ( <i>deft</i> ) and confidence intervals for selected indicators, Balochistan Province, Pakistan, 2010 |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
|                                                                                                                                                                                                                  | MICS Indicator | Value ( <i>r</i> ) | Standard error ( <i>se</i> ) | Coefficient of variation ( <i>se/r</i> ) | Design effect ( <i>deff</i> ) | Square root of design effect ( <i>deft</i> ) | Weighted count | Unweighted count | Confidence limits      |                        |
|                                                                                                                                                                                                                  |                |                    |                              |                                          |                               |                                              |                |                  | <i>r</i> - 2 <i>se</i> | <i>r</i> + 2 <i>se</i> |
| <b>HOUSEHOLDS</b>                                                                                                                                                                                                |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Iodized salt consumption                                                                                                                                                                                         | 2.16           | 0.1927             | 0.0366                       | 0.190                                    | 2.500                         | 1.581                                        | 155            | 291              | 0.119                  | 0.266                  |
| <b>HOUSEHOLD MEMBERS</b>                                                                                                                                                                                         |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Use of improved drinking water sources                                                                                                                                                                           | 4.1            | 0.8908             | 0.0473                       | 0.053                                    | 7.064                         | 2.658                                        | 1180           | 308              | 0.796                  | 0.985                  |
| Use of improved sanitation facilities                                                                                                                                                                            | 4.3            | 0.5679             | 0.0530                       | 0.093                                    | 3.509                         | 1.873                                        | 1180           | 308              | 0.462                  | 0.674                  |
| Secondary school net attendance ratio (adjusted)                                                                                                                                                                 | 7.5            | 0.2128             | 0.0418                       | 0.196                                    | 3.536                         | 1.880                                        | 180            | 340              | 0.129                  | 0.296                  |
| <b>WOMEN</b>                                                                                                                                                                                                     |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Contraceptive prevalence                                                                                                                                                                                         | 5.3            | 0.0682             | 0.0175                       | 0.257                                    | 0.881                         | 0.939                                        | 112            | 184              | 0.033                  | 0.103                  |
| Antenatal care coverage - at least once by skilled personnel                                                                                                                                                     | 5.5a           | 0.3276             | 0.1170                       | 0.357                                    | 2.423                         | 1.557                                        | 27             | 40               | 0.094                  | 0.562                  |
| Antenatal care coverage – at least four times by any provider                                                                                                                                                    | 5.5b           | 0.1482             | 0.0431                       | 0.291                                    | 0.575                         | 0.758                                        | 27             | 40               | 0.062                  | 0.234                  |
| Skilled attendant at delivery                                                                                                                                                                                    | 5.7            | 0.2651             | 0.1122                       | 0.423                                    | 2.519                         | 1.587                                        | 27             | 40               | 0.041                  | 0.489                  |
| Institutional deliveries                                                                                                                                                                                         | 5.8            | 0.1442             | 0.0622                       | 0.431                                    | 1.221                         | 1.105                                        | 27             | 40               | 0.020                  | 0.269                  |
| Literacy rate among young women                                                                                                                                                                                  | 7.1            | 0.3033             | 0.0608                       | 0.200                                    | 3.096                         | 1.760                                        | 106            | 178              | 0.182                  | 0.425                  |
| <b>UNDER-5s</b>                                                                                                                                                                                                  |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Tuberculosis immunization coverage                                                                                                                                                                               | -              | 0.2541             | 0.1094                       | 0.430                                    | 1.010                         | 1.005                                        | 13             | 17               | 0.035                  | 0.473                  |
| Received polio immunization                                                                                                                                                                                      | -              | 0.3332             | 0.0629                       | 0.189                                    | 0.303                         | 0.550                                        | 13             | 18               | 0.207                  | 0.459                  |
| Received DPT immunization                                                                                                                                                                                        | -              | 0.0588             | 0.0051                       | 0.087                                    | 0.008                         | 0.087                                        | 13             | 17               | 0.049                  | 0.069                  |
| Received measles immunization                                                                                                                                                                                    | -              | 0.2566             | 0.1034                       | 0.403                                    | 0.952                         | 0.976                                        | 13             | 18               | 0.050                  | 0.463                  |
| Received Hepatitis B immunization                                                                                                                                                                                | -              | 0.0588             | 0.0051                       | 0.087                                    | 0.008                         | 0.087                                        | 13             | 17               | 0.049                  | 0.069                  |
| Diarrhoea in the previous 2 weeks                                                                                                                                                                                | -              | 0.0657             | 0.0240                       | 0.366                                    | 1.252                         | 1.119                                        | 104            | 134              | 0.018                  | 0.114                  |

| <b>Table D19: Sampling errors: Chagai</b>                                                                                                                                                                        |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------|------------------------------|------------------------------------------|-------------------------------|----------------------------------------------|----------------|------------------|------------------------|------------------------|
| Standard errors, coefficients of variation, design effects ( <i>deff</i> ), square root of design effects ( <i>deff</i> ) and confidence intervals for selected indicators, Balochistan Province, Pakistan, 2010 |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
|                                                                                                                                                                                                                  | MICS Indicator | Value ( <i>r</i> ) | Standard error ( <i>se</i> ) | Coefficient of variation ( <i>se/r</i> ) | Design effect ( <i>deff</i> ) | Square root of design effect ( <i>deff</i> ) | Weighted count | Unweighted count | Confidence limits      |                        |
|                                                                                                                                                                                                                  |                |                    |                              |                                          |                               |                                              |                |                  | <i>r</i> - 2 <i>se</i> | <i>r</i> + 2 <i>se</i> |
| <b>HOUSEHOLDS</b>                                                                                                                                                                                                |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Iodized salt consumption                                                                                                                                                                                         | 2.16           | 0.1476             | 0.0360                       | 0.244                                    | 3.160                         | 1.778                                        | 194            | 308              | 0.076                  | 0.220                  |
| <b>HOUSEHOLD MEMBERS</b>                                                                                                                                                                                         |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Use of improved drinking water sources                                                                                                                                                                           | 4.1            | 0.6660             | 0.0462                       | 0.069                                    | 3.022                         | 1.739                                        | 1373           | 316              | 0.574                  | 0.758                  |
| Use of improved sanitation facilities                                                                                                                                                                            | 4.3            | 0.4468             | 0.0507                       | 0.113                                    | 3.274                         | 1.809                                        | 1373           | 316              | 0.345                  | 0.548                  |
| Secondary school net attendance ratio (adjusted)                                                                                                                                                                 | 7.5            | 0.2014             | 0.0417                       | 0.207                                    | 3.395                         | 1.843                                        | 203            | 315              | 0.118                  | 0.285                  |
| <b>WOMEN</b>                                                                                                                                                                                                     |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Contraceptive prevalence                                                                                                                                                                                         | 5.3            | 0.1073             | 0.0275                       | 0.256                                    | 1.850                         | 1.360                                        | 149            | 235              | 0.052                  | 0.162                  |
| Antenatal care coverage - at least once by skilled personnel                                                                                                                                                     | 5.5a           | 0.1883             | 0.0386                       | 0.205                                    | 0.743                         | 0.862                                        | 51             | 77               | 0.111                  | 0.266                  |
| Antenatal care coverage – at least four times by any provider                                                                                                                                                    | 5.5b           | 0.0110             | 0.0115                       | 1.049                                    | 0.930                         | 0.964                                        | 51             | 77               | 0.000                  | 0.034                  |
| Skilled attendant at delivery                                                                                                                                                                                    | 5.7            | 0.0110             | 0.0115                       | 1.049                                    | 0.930                         | 0.964                                        | 51             | 77               | 0.000                  | 0.034                  |
| Institutional deliveries                                                                                                                                                                                         | 5.8            | 0.0220             | 0.0231                       | 1.049                                    | 1.880                         | 1.371                                        | 51             | 77               | 0.000                  | 0.068                  |
| Literacy rate among young women                                                                                                                                                                                  | 7.1            | 0.2564             | 0.0547                       | 0.213                                    | 3.630                         | 1.905                                        | 145            | 232              | 0.147                  | 0.366                  |
| <b>UNDER-5s</b>                                                                                                                                                                                                  |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Tuberculosis immunization coverage                                                                                                                                                                               | -              | 0.3410             | 0.0653                       | 0.191                                    | 0.930                         | 0.964                                        | 33             | 50               | 0.210                  | 0.472                  |
| Received polio immunization                                                                                                                                                                                      | -              | 0.4619             | 0.0802                       | 0.174                                    | 1.268                         | 1.126                                        | 33             | 50               | 0.302                  | 0.622                  |
| Received DPT immunization                                                                                                                                                                                        | -              | 0.1430             | 0.0546                       | 0.382                                    | 1.143                         | 1.069                                        | 31             | 48               | 0.034                  | 0.252                  |
| Received measles immunization                                                                                                                                                                                    | -              | 0.2667             | 0.0599                       | 0.225                                    | 0.880                         | 0.938                                        | 32             | 49               | 0.147                  | 0.386                  |
| Received Hepatitis B immunization                                                                                                                                                                                | -              | 0.0235             | 0.0229                       | 0.978                                    | 1.034                         | 1.017                                        | 30             | 46               | 0.000                  | 0.069                  |
| Diarrhoea in the previous 2 weeks                                                                                                                                                                                | -              | 0.1634             | 0.0313                       | 0.192                                    | 2.032                         | 1.426                                        | 180            | 284              | 0.101                  | 0.226                  |



| <b>Table D20: Sampling errors: Kharan</b>                                                                                                                                                                        |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------|------------------------------|------------------------------------------|-------------------------------|----------------------------------------------|----------------|------------------|------------------------|------------------------|
| Standard errors, coefficients of variation, design effects ( <i>deff</i> ), square root of design effects ( <i>deft</i> ) and confidence intervals for selected indicators, Balochistan Province, Pakistan, 2010 |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
|                                                                                                                                                                                                                  | MICS Indicator | Value ( <i>r</i> ) | Standard error ( <i>se</i> ) | Coefficient of variation ( <i>se/r</i> ) | Design effect ( <i>deff</i> ) | Square root of design effect ( <i>deft</i> ) | Weighted count | Unweighted count | Confidence limits      |                        |
|                                                                                                                                                                                                                  |                |                    |                              |                                          |                               |                                              |                |                  | <i>r</i> - 2 <i>se</i> | <i>r</i> + 2 <i>se</i> |
| <b>HOUSEHOLDS</b>                                                                                                                                                                                                |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Iodized salt consumption                                                                                                                                                                                         | 2.16           | 0.0517             | 0.0179                       | 0.346                                    | 2.411                         | 1.553                                        | 258            | 371              | 0.016                  | 0.087                  |
| <b>HOUSEHOLD MEMBERS</b>                                                                                                                                                                                         |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Use of improved drinking water sources                                                                                                                                                                           | 4.1            | 0.8785             | 0.0386                       | 0.044                                    | 5.408                         | 2.325                                        | 1804           | 388              | 0.801                  | 0.956                  |
| Use of improved sanitation facilities                                                                                                                                                                            | 4.3            | 0.5394             | 0.0630                       | 0.117                                    | 6.174                         | 2.485                                        | 1804           | 388              | 0.414                  | 0.665                  |
| Secondary school net attendance ratio (adjusted)                                                                                                                                                                 | 7.5            | 0.1611             | 0.0281                       | 0.175                                    | 2.222                         | 1.490                                        | 245            | 380              | 0.105                  | 0.217                  |
| <b>WOMEN</b>                                                                                                                                                                                                     |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Contraceptive prevalence                                                                                                                                                                                         | 5.3            | 0.0885             | 0.0148                       | 0.167                                    | 0.897                         | 0.947                                        | 222            | 333              | 0.059                  | 0.118                  |
| Antenatal care coverage - at least once by skilled personnel                                                                                                                                                     | 5.5a           | 0.2451             | 0.0628                       | 0.256                                    | 1.705                         | 1.306                                        | 53             | 81               | 0.119                  | 0.371                  |
| Antenatal care coverage – at least four times by any provider                                                                                                                                                    | 5.5b           | 0.0824             | 0.0313                       | 0.379                                    | 1.035                         | 1.017                                        | 53             | 81               | 0.020                  | 0.145                  |
| Skilled attendant at delivery                                                                                                                                                                                    | 5.7            | 0.1317             | 0.0426                       | 0.323                                    | 1.268                         | 1.126                                        | 53             | 81               | 0.047                  | 0.217                  |
| Institutional deliveries                                                                                                                                                                                         | 5.8            | 0.1001             | 0.0460                       | 0.460                                    | 1.880                         | 1.371                                        | 53             | 81               | 0.008                  | 0.192                  |
| Literacy rate among young women                                                                                                                                                                                  | 7.1            | 0.1832             | 0.0272                       | 0.148                                    | 0.955                         | 0.977                                        | 132            | 194              | 0.129                  | 0.238                  |
| <b>UNDER-5s</b>                                                                                                                                                                                                  |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Tuberculosis immunization coverage                                                                                                                                                                               | -              | 0.3866             | 0.0674                       | 0.174                                    | 0.861                         | 0.928                                        | 31             | 46               | 0.252                  | 0.521                  |
| Received polio immunization                                                                                                                                                                                      | -              | 0.3254             | 0.0350                       | 0.108                                    | 0.240                         | 0.490                                        | 30             | 44               | 0.255                  | 0.395                  |
| Received DPT immunization                                                                                                                                                                                        | -              | 0.1246             | 0.0435                       | 0.349                                    | 0.780                         | 0.883                                        | 31             | 46               | 0.038                  | 0.212                  |
| Received measles immunization                                                                                                                                                                                    | -              | 0.1797             | 0.0572                       | 0.318                                    | 0.976                         | 0.988                                        | 30             | 45               | 0.065                  | 0.294                  |
| Received Hepatitis B immunization                                                                                                                                                                                | -              | 0.0704             | 0.0415                       | 0.590                                    | 1.187                         | 1.089                                        | 31             | 46               | 0.000                  | 0.153                  |
| Diarrhoea in the previous 2 weeks                                                                                                                                                                                | -              | 0.1345             | 0.0329                       | 0.245                                    | 2.496                         | 1.580                                        | 175            | 269              | 0.069                  | 0.200                  |

**Table D21: Sampling errors: Washuk**

Standard errors, coefficients of variation, design effects (*deff*), square root of design effects (*deff*) and confidence intervals for selected indicators, Balochistan Province, Pakistan, 2010

|                                                               | MICS Indicator | Value ( <i>r</i> ) | Standard error ( <i>se</i> ) | Coefficient of variation ( <i>se/r</i> ) | Design effect ( <i>deff</i> ) | Square root of design effect ( <i>deff</i> ) | Weighted count | Unweighted count | Confidence limits      |                        |
|---------------------------------------------------------------|----------------|--------------------|------------------------------|------------------------------------------|-------------------------------|----------------------------------------------|----------------|------------------|------------------------|------------------------|
|                                                               |                |                    |                              |                                          |                               |                                              |                |                  | <i>r</i> - 2 <i>se</i> | <i>r</i> + 2 <i>se</i> |
| <b>HOUSEHOLDS</b>                                             |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Iodized salt consumption                                      | 2.16           | 0.0720             | 0.0116                       | 0.162                                    | 0.735                         | 0.857                                        | 133            | 364              | 0.049                  | 0.095                  |
| <b>HOUSEHOLD MEMBERS</b>                                      |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Use of improved drinking water sources                        | 4.1            | 0.8176             | 0.0602                       | 0.074                                    | 9.272                         | 3.045                                        | 693            | 382              | 0.697                  | 0.938                  |
| Use of improved sanitation facilities                         | 4.3            | 0.6529             | 0.0407                       | 0.062                                    | 2.790                         | 1.670                                        | 693            | 382              | 0.571                  | 0.734                  |
| Secondary school net attendance ratio (adjusted)              | 7.5            | 0.1323             | 0.0380                       | 0.287                                    | 2.661                         | 1.631                                        | 74             | 213              | 0.056                  | 0.208                  |
| <b>WOMEN</b>                                                  |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Contraceptive prevalence                                      | 5.3            | 0.0495             | 0.0133                       | 0.270                                    | 1.059                         | 1.029                                        | 102            | 281              | 0.023                  | 0.076                  |
| Antenatal care coverage - at least once by skilled personnel  | 5.5a           | 0.2853             | 0.0507                       | 0.178                                    | 0.252                         | 0.502                                        | 7              | 21               | 0.184                  | 0.387                  |
| Antenatal care coverage – at least four times by any provider | 5.5b           | 0.0648             | 0.0239                       | 0.369                                    | 0.188                         | 0.434                                        | 7              | 21               | 0.017                  | 0.113                  |
| Skilled attendant at delivery                                 | 5.7            | 0.1079             | 0.0147                       | 0.136                                    | 0.045                         | 0.212                                        | 7              | 21               | 0.079                  | 0.137                  |
| Institutional deliveries                                      | 5.8            | 0.1079             | 0.0147                       | 0.136                                    | 0.045                         | 0.212                                        | 7              | 21               | 0.079                  | 0.137                  |
| Literacy rate among young women                               | 7.1            | 0.1158             | 0.0535                       | 0.462                                    | 3.103                         | 1.762                                        | 41             | 112              | 0.009                  | 0.223                  |
| <b>UNDER-5s</b>                                               |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Tuberculosis immunization coverage                            | -              | 0.3046             | 0.0000                       | 0.000                                    | 0.000                         | 0.000                                        | 4              | 11               | 0.305                  | 0.305                  |
| Received polio immunization                                   | -              | 0.4959             | 0.0000                       | 0.000                                    | 0.000                         | 0.000                                        | 4              | 11               | 0.496                  | 0.496                  |
| Received DPT immunization                                     | -              | 0.0000             | 0.0000                       | .                                        | .                             | .                                            | 4              | 11               | 0.000                  | 0.000                  |
| Received measles immunization                                 | -              | 0.2271             | 0.0000                       | 0.000                                    | 0.000                         | 0.000                                        | 3              | 9                | 0.227                  | 0.227                  |
| Received Hepatitis B immunization                             | -              | 0.0000             | 0.0000                       | .                                        | .                             | .                                            | 4              | 10               | 0.000                  | 0.000                  |
| Diarrhoea in the previous 2 weeks                             | -              | 0.1711             | 0.0328                       | 0.191                                    | 1.211                         | 1.100                                        | 61             | 161              | 0.106                  | 0.237                  |

| <b>Table D22: Sampling errors: Panigoor</b>                                                                                                                                                                      |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------|------------------------------|------------------------------------------|-------------------------------|----------------------------------------------|----------------|------------------|------------------------|------------------------|
| Standard errors, coefficients of variation, design effects ( <i>deff</i> ), square root of design effects ( <i>deft</i> ) and confidence intervals for selected indicators, Balochistan Province, Pakistan, 2010 |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
|                                                                                                                                                                                                                  | MICS Indicator | Value ( <i>r</i> ) | Standard error ( <i>se</i> ) | Coefficient of variation ( <i>se/r</i> ) | Design effect ( <i>deff</i> ) | Square root of design effect ( <i>deft</i> ) | Weighted count | Unweighted count | Confidence limits      |                        |
|                                                                                                                                                                                                                  |                |                    |                              |                                          |                               |                                              |                |                  | <i>r</i> - 2 <i>se</i> | <i>r</i> + 2 <i>se</i> |
| <b>HOUSEHOLDS</b>                                                                                                                                                                                                |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Iodized salt consumption                                                                                                                                                                                         | 2.16           | 0.0291             | 0.0065                       | 0.225                                    | 0.521                         | 0.722                                        | 363            | 345              | 0.016                  | 0.042                  |
| <b>HOUSEHOLD MEMBERS</b>                                                                                                                                                                                         |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Use of improved drinking water sources                                                                                                                                                                           | 4.1            | 0.7375             | 0.0154                       | 0.021                                    | 0.439                         | 0.663                                        | 2615           | 358              | 0.707                  | 0.768                  |
| Use of improved sanitation facilities                                                                                                                                                                            | 4.3            | 0.8180             | 0.0422                       | 0.052                                    | 4.263                         | 2.065                                        | 2615           | 358              | 0.734                  | 0.902                  |
| Secondary school net attendance ratio (adjusted)                                                                                                                                                                 | 7.5            | 0.4752             | 0.0466                       | 0.098                                    | 3.869                         | 1.967                                        | 451            | 445              | 0.382                  | 0.568                  |
| <b>WOMEN</b>                                                                                                                                                                                                     |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Contraceptive prevalence                                                                                                                                                                                         | 5.3            | 0.1655             | 0.0187                       | 0.113                                    | 0.727                         | 0.853                                        | 287            | 289              | 0.128                  | 0.203                  |
| Antenatal care coverage - at least once by skilled personnel                                                                                                                                                     | 5.5a           | 0.2259             | 0.0272                       | 0.120                                    | 0.038                         | 0.195                                        | 10             | 10               | 0.172                  | 0.280                  |
| Antenatal care coverage – at least four times by any provider                                                                                                                                                    | 5.5b           | 0.5188             | 0.1545                       | 0.298                                    | 0.860                         | 0.928                                        | 10             | 10               | 0.210                  | 0.828                  |
| Skilled attendant at delivery                                                                                                                                                                                    | 5.7            | 0.2259             | 0.0272                       | 0.120                                    | 0.038                         | 0.195                                        | 10             | 10               | 0.172                  | 0.280                  |
| Institutional deliveries                                                                                                                                                                                         | 5.8            | 0.1250             | 0.0150                       | 0.120                                    | 0.019                         | 0.137                                        | 10             | 10               | 0.095                  | 0.155                  |
| Literacy rate among young women                                                                                                                                                                                  | 7.1            | 0.6892             | 0.0583                       | 0.085                                    | 2.203                         | 1.484                                        | 137            | 140              | 0.573                  | 0.806                  |
| <b>UNDER-5s</b>                                                                                                                                                                                                  |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Tuberculosis immunization coverage                                                                                                                                                                               | -              | 0.0000             | 0.0000                       | .                                        | .                             | .                                            | 5              | 5                | 0.000                  | 0.000                  |
| Received polio immunization                                                                                                                                                                                      | -              | 0.0000             | 0.0000                       | .                                        | .                             | .                                            | 5              | 5                | 0.000                  | 0.000                  |
| Received DPT immunization                                                                                                                                                                                        | -              | 0.0000             | 0.0000                       | .                                        | .                             | .                                            | 5              | 5                | 0.000                  | 0.000                  |
| Received measles immunization                                                                                                                                                                                    | -              | 0.0000             | 0.0000                       | .                                        | .                             | .                                            | 5              | 5                | 0.000                  | 0.000                  |
| Received Hepatitis B immunization                                                                                                                                                                                | -              | 0.0000             | 0.0000                       | .                                        | .                             | .                                            | 5              | 5                | 0.000                  | 0.000                  |
| Diarrhoea in the previous 2 weeks                                                                                                                                                                                | -              | 0.3019             | 0.0300                       | 0.099                                    | 0.558                         | 0.747                                        | 130            | 132              | 0.242                  | 0.362                  |

| <b>Table D23: Sampling errors: Kech</b>                                                                                                                                                                          |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------|------------------------------|------------------------------------------|-------------------------------|----------------------------------------------|----------------|------------------|------------------------|------------------------|
| Standard errors, coefficients of variation, design effects ( <i>deff</i> ), square root of design effects ( <i>deft</i> ) and confidence intervals for selected indicators, Balochistan Province, Pakistan, 2010 |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
|                                                                                                                                                                                                                  | MICS Indicator | Value ( <i>r</i> ) | Standard error ( <i>se</i> ) | Coefficient of variation ( <i>se/r</i> ) | Design effect ( <i>deff</i> ) | Square root of design effect ( <i>deft</i> ) | Weighted count | Unweighted count | Confidence limits      |                        |
|                                                                                                                                                                                                                  |                |                    |                              |                                          |                               |                                              |                |                  | <i>r</i> - 2 <i>se</i> | <i>r</i> + 2 <i>se</i> |
| <b>HOUSEHOLDS</b>                                                                                                                                                                                                |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Iodized salt consumption                                                                                                                                                                                         | 2.16           | 0.3726             | 0.0252                       | 0.068                                    | 1.154                         | 1.074                                        | 846            | 425              | 0.322                  | 0.423                  |
| <b>HOUSEHOLD MEMBERS</b>                                                                                                                                                                                         |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Use of improved drinking water sources                                                                                                                                                                           | 4.1            | 0.8885             | 0.0196                       | 0.022                                    | 1.647                         | 1.283                                        | 6378           | 426              | 0.849                  | 0.928                  |
| Use of improved sanitation facilities                                                                                                                                                                            | 4.3            | 0.8614             | 0.0268                       | 0.031                                    | 2.558                         | 1.599                                        | 6378           | 426              | 0.808                  | 0.915                  |
| Secondary school net attendance ratio (adjusted)                                                                                                                                                                 | 7.5            | 0.6311             | 0.0233                       | 0.037                                    | 1.450                         | 1.204                                        | 1267           | 625              | 0.585                  | 0.678                  |
| <b>WOMEN</b>                                                                                                                                                                                                     |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Contraceptive prevalence                                                                                                                                                                                         | 5.3            | 0.3619             | 0.0281                       | 0.078                                    | 1.453                         | 1.206                                        | 791            | 427              | 0.306                  | 0.418                  |
| Antenatal care coverage - at least once by skilled personnel                                                                                                                                                     | 5.5a           | 0.6438             | 0.0651                       | 0.101                                    | 1.478                         | 1.216                                        | 147            | 81               | 0.514                  | 0.774                  |
| Antenatal care coverage – at least four times by any provider                                                                                                                                                    | 5.5b           | 0.0896             | 0.0257                       | 0.287                                    | 0.649                         | 0.806                                        | 147            | 81               | 0.038                  | 0.141                  |
| Skilled attendant at delivery                                                                                                                                                                                    | 5.7            | 0.6188             | 0.0477                       | 0.077                                    | 0.773                         | 0.879                                        | 147            | 81               | 0.523                  | 0.714                  |
| Institutional deliveries                                                                                                                                                                                         | 5.8            | 0.4631             | 0.0591                       | 0.128                                    | 1.123                         | 1.060                                        | 147            | 81               | 0.345                  | 0.581                  |
| Literacy rate among young women                                                                                                                                                                                  | 7.1            | 0.7601             | 0.0325                       | 0.043                                    | 1.525                         | 1.235                                        | 477            | 265              | 0.695                  | 0.825                  |
| <b>UNDER-5s</b>                                                                                                                                                                                                  |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Tuberculosis immunization coverage                                                                                                                                                                               | -              | 0.8210             | 0.0589                       | 0.072                                    | 1.017                         | 1.008                                        | 85             | 44               | 0.703                  | 0.939                  |
| Received polio immunization                                                                                                                                                                                      | -              | 0.3146             | 0.0923                       | 0.293                                    | 1.579                         | 1.257                                        | 81             | 41               | 0.130                  | 0.499                  |
| Received DPT immunization                                                                                                                                                                                        | -              | 0.2610             | 0.0699                       | 0.268                                    | 0.988                         | 0.994                                        | 79             | 40               | 0.121                  | 0.401                  |
| Received measles immunization                                                                                                                                                                                    | -              | 0.6231             | 0.1010                       | 0.162                                    | 1.782                         | 1.335                                        | 83             | 42               | 0.421                  | 0.825                  |
| Received Hepatitis B immunization                                                                                                                                                                                | -              | 0.1199             | 0.0622                       | 0.519                                    | 1.321                         | 1.149                                        | 75             | 37               | 0.000                  | 0.244                  |
| Diarrhoea in the previous 2 weeks                                                                                                                                                                                | -              | 0.1758             | 0.0239                       | 0.136                                    | 1.410                         | 1.187                                        | 670            | 358              | 0.128                  | 0.224                  |

| <b>Table D24: Sampling errors: Gawader</b>                                                                                                                                                                       |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------|------------------------------|------------------------------------------|-------------------------------|----------------------------------------------|----------------|------------------|------------------------|------------------------|
| Standard errors, coefficients of variation, design effects ( <i>deff</i> ), square root of design effects ( <i>deft</i> ) and confidence intervals for selected indicators, Balochistan Province, Pakistan, 2010 |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
|                                                                                                                                                                                                                  | MICS Indicator | Value ( <i>r</i> ) | Standard error ( <i>se</i> ) | Coefficient of variation ( <i>se/r</i> ) | Design effect ( <i>deff</i> ) | Square root of design effect ( <i>deft</i> ) | Weighted count | Unweighted count | Confidence limits      |                        |
|                                                                                                                                                                                                                  |                |                    |                              |                                          |                               |                                              |                |                  | <i>r</i> - 2 <i>se</i> | <i>r</i> + 2 <i>se</i> |
| <b>HOUSEHOLDS</b>                                                                                                                                                                                                |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Iodized salt consumption                                                                                                                                                                                         | 2.16           | 0.1632             | 0.0233                       | 0.143                                    | 1.356                         | 1.165                                        | 315            | 342              | 0.117                  | 0.210                  |
| <b>HOUSEHOLD MEMBERS</b>                                                                                                                                                                                         |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Use of improved drinking water sources                                                                                                                                                                           | 4.1            | 0.7339             | 0.0426                       | 0.058                                    | 3.173                         | 1.781                                        | 2048           | 343              | 0.649                  | 0.819                  |
| Use of improved sanitation facilities                                                                                                                                                                            | 4.3            | 0.6495             | 0.0513                       | 0.079                                    | 3.955                         | 1.989                                        | 2048           | 343              | 0.547                  | 0.752                  |
| Secondary school net attendance ratio (adjusted)                                                                                                                                                                 | 7.5            | 0.3623             | 0.0241                       | 0.066                                    | 0.933                         | 0.966                                        | 338            | 373              | 0.314                  | 0.410                  |
| <b>WOMEN</b>                                                                                                                                                                                                     |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Contraceptive prevalence                                                                                                                                                                                         | 5.3            | 0.1875             | 0.0193                       | 0.103                                    | 0.707                         | 0.841                                        | 259            | 289              | 0.149                  | 0.226                  |
| Antenatal care coverage - at least once by skilled personnel                                                                                                                                                     | 5.5a           | 0.4424             | 0.0297                       | 0.067                                    | 0.190                         | 0.436                                        | 49             | 54               | 0.383                  | 0.502                  |
| Antenatal care coverage – at least four times by any provider                                                                                                                                                    | 5.5b           | 0.1185             | 0.0418                       | 0.353                                    | 0.888                         | 0.942                                        | 49             | 54               | 0.035                  | 0.202                  |
| Skilled attendant at delivery                                                                                                                                                                                    | 5.7            | 0.1665             | 0.0418                       | 0.251                                    | 0.667                         | 0.817                                        | 49             | 54               | 0.083                  | 0.250                  |
| Institutional deliveries                                                                                                                                                                                         | 5.8            | 0.1665             | 0.0418                       | 0.251                                    | 0.667                         | 0.817                                        | 49             | 54               | 0.083                  | 0.250                  |
| Literacy rate among young women                                                                                                                                                                                  | 7.1            | 0.5291             | 0.0433                       | 0.082                                    | 1.629                         | 1.276                                        | 184            | 217              | 0.442                  | 0.616                  |
| <b>UNDER-5s</b>                                                                                                                                                                                                  |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Tuberculosis immunization coverage                                                                                                                                                                               | -              | 0.8024             | 0.0397                       | 0.049                                    | 0.179                         | 0.423                                        | 18             | 19               | 0.723                  | 0.882                  |
| Received polio immunization                                                                                                                                                                                      | -              | 0.7056             | 0.0419                       | 0.059                                    | 0.152                         | 0.390                                        | 18             | 19               | 0.622                  | 0.789                  |
| Received DPT immunization                                                                                                                                                                                        | -              | 0.6363             | 0.0380                       | 0.060                                    | 0.112                         | 0.335                                        | 18             | 19               | 0.560                  | 0.712                  |
| Received measles immunization                                                                                                                                                                                    | -              | 0.7805             | 0.0401                       | 0.051                                    | 0.169                         | 0.411                                        | 18             | 19               | 0.700                  | 0.861                  |
| Received Hepatitis B immunization                                                                                                                                                                                | -              | 0.5045             | 0.0644                       | 0.128                                    | 0.282                         | 0.531                                        | 17             | 18               | 0.376                  | 0.633                  |
| Diarrhoea in the previous 2 weeks                                                                                                                                                                                | -              | 0.3302             | 0.0215                       | 0.065                                    | 0.441                         | 0.664                                        | 183            | 212              | 0.287                  | 0.373                  |

| <b>Table D25: Sampling errors: Qilla Saifullah</b>                                                                                                                                                               |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------|------------------------------|------------------------------------------|-------------------------------|----------------------------------------------|----------------|------------------|------------------------|------------------------|
| Standard errors, coefficients of variation, design effects ( <i>deff</i> ), square root of design effects ( <i>deft</i> ) and confidence intervals for selected indicators, Balochistan Province, Pakistan, 2010 |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
|                                                                                                                                                                                                                  | MICS Indicator | Value ( <i>r</i> ) | Standard error ( <i>se</i> ) | Coefficient of variation ( <i>se/r</i> ) | Design effect ( <i>deff</i> ) | Square root of design effect ( <i>deft</i> ) | Weighted count | Unweighted count | Confidence limits      |                        |
|                                                                                                                                                                                                                  |                |                    |                              |                                          |                               |                                              |                |                  | <i>r</i> - 2 <i>se</i> | <i>r</i> + 2 <i>se</i> |
| <b>HOUSEHOLDS</b>                                                                                                                                                                                                |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Iodized salt consumption                                                                                                                                                                                         | 2.16           | 0.0490             | 0.0135                       | 0.276                                    | 1.344                         | 1.159                                        | 276            | 343              | 0.022                  | 0.076                  |
| <b>HOUSEHOLD MEMBERS</b>                                                                                                                                                                                         |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Use of improved drinking water sources                                                                                                                                                                           | 4.1            | 0.7997             | 0.0535                       | 0.067                                    | 6.425                         | 2.535                                        | 2774           | 360              | 0.693                  | 0.907                  |
| Use of improved sanitation facilities                                                                                                                                                                            | 4.3            | 0.2341             | 0.0444                       | 0.190                                    | 3.953                         | 1.988                                        | 2774           | 360              | 0.145                  | 0.323                  |
| Secondary school net attendance ratio (adjusted)                                                                                                                                                                 | 7.5            | 0.1168             | 0.0182                       | 0.155                                    | 1.726                         | 1.314                                        | 419            | 541              | 0.080                  | 0.153                  |
| <b>WOMEN</b>                                                                                                                                                                                                     |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Contraceptive prevalence                                                                                                                                                                                         | 5.3            | 0.0299             | 0.0081                       | 0.272                                    | 1.092                         | 1.045                                        | 373            | 481              | 0.014                  | 0.046                  |
| Antenatal care coverage - at least once by skilled personnel                                                                                                                                                     | 5.5a           | 0.3390             | 0.0569                       | 0.168                                    | 2.092                         | 1.446                                        | 114            | 146              | 0.225                  | 0.453                  |
| Antenatal care coverage – at least four times by any provider                                                                                                                                                    | 5.5b           | 0.0264             | 0.0098                       | 0.371                                    | 0.542                         | 0.736                                        | 114            | 146              | 0.007                  | 0.046                  |
| Skilled attendant at delivery                                                                                                                                                                                    | 5.7            | 0.1695             | 0.0330                       | 0.195                                    | 1.124                         | 1.060                                        | 114            | 146              | 0.103                  | 0.236                  |
| Institutional deliveries                                                                                                                                                                                         | 5.8            | 0.1683             | 0.0339                       | 0.201                                    | 1.191                         | 1.091                                        | 114            | 146              | 0.100                  | 0.236                  |
| Literacy rate among young women                                                                                                                                                                                  | 7.1            | 0.1248             | 0.0271                       | 0.217                                    | 2.038                         | 1.427                                        | 233            | 304              | 0.071                  | 0.179                  |
| <b>UNDER-5s</b>                                                                                                                                                                                                  |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Tuberculosis immunization coverage                                                                                                                                                                               | -              | 0.2216             | 0.0622                       | 0.280                                    | 1.545                         | 1.243                                        | 53             | 70               | 0.097                  | 0.346                  |
| Received polio immunization                                                                                                                                                                                      | -              | 0.6243             | 0.1001                       | 0.160                                    | 3.201                         | 1.789                                        | 57             | 76               | 0.424                  | 0.824                  |
| Received DPT immunization                                                                                                                                                                                        | -              | 0.0161             | 0.0155                       | 0.964                                    | 1.032                         | 1.016                                        | 52             | 69               | 0.000                  | 0.047                  |
| Received measles immunization                                                                                                                                                                                    | -              | 0.1880             | 0.0666                       | 0.354                                    | 1.949                         | 1.396                                        | 50             | 68               | 0.055                  | 0.321                  |
| Received Hepatitis B immunization                                                                                                                                                                                | -              | 0.0167             | 0.0161                       | 0.963                                    | 1.042                         | 1.021                                        | 50             | 67               | 0.000                  | 0.049                  |
| Diarrhoea in the previous 2 weeks                                                                                                                                                                                | -              | 0.3007             | 0.0335                       | 0.111                                    | 2.671                         | 1.634                                        | 386            | 503              | 0.234                  | 0.368                  |

| <b>Table D26: Sampling errors: Zhob</b>                                                                                                                                                                          |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------|------------------------------|------------------------------------------|-------------------------------|----------------------------------------------|----------------|------------------|------------------------|------------------------|
| Standard errors, coefficients of variation, design effects ( <i>deff</i> ), square root of design effects ( <i>deff</i> ) and confidence intervals for selected indicators, Balochistan Province, Pakistan, 2010 |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
|                                                                                                                                                                                                                  | MICS Indicator | Value ( <i>r</i> ) | Standard error ( <i>se</i> ) | Coefficient of variation ( <i>se/r</i> ) | Design effect ( <i>deff</i> ) | Square root of design effect ( <i>deff</i> ) | Weighted count | Unweighted count | Confidence limits      |                        |
|                                                                                                                                                                                                                  |                |                    |                              |                                          |                               |                                              |                |                  | <i>r</i> - 2 <i>se</i> | <i>r</i> + 2 <i>se</i> |
| <b>HOUSEHOLDS</b>                                                                                                                                                                                                |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Iodized salt consumption                                                                                                                                                                                         | 2.16           | 0.0230             | 0.0073                       | 0.319                                    | 0.934                         | 0.967                                        | 308            | 391              | 0.008                  | 0.038                  |
| <b>HOUSEHOLD MEMBERS</b>                                                                                                                                                                                         |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Use of improved drinking water sources                                                                                                                                                                           | 4.1            | 0.6990             | 0.0558                       | 0.080                                    | 5.795                         | 2.407                                        | 2763           | 392              | 0.587                  | 0.811                  |
| Use of improved sanitation facilities                                                                                                                                                                            | 4.3            | 0.5025             | 0.0446                       | 0.089                                    | 3.105                         | 1.762                                        | 2763           | 392              | 0.413                  | 0.592                  |
| Secondary school net attendance ratio (adjusted)                                                                                                                                                                 | 7.5            | 0.1835             | 0.0212                       | 0.115                                    | 1.495                         | 1.223                                        | 417            | 501              | 0.141                  | 0.226                  |
| <b>WOMEN</b>                                                                                                                                                                                                     |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Contraceptive prevalence                                                                                                                                                                                         | 5.3            | 0.0074             | 0.0036                       | 0.481                                    | 0.750                         | 0.866                                        | 315            | 436              | 0.000                  | 0.015                  |
| Antenatal care coverage - at least once by skilled personnel                                                                                                                                                     | 5.5a           | 0.4568             | 0.0270                       | 0.059                                    | 0.244                         | 0.494                                        | 61             | 84               | 0.403                  | 0.511                  |
| Antenatal care coverage – at least four times by any provider                                                                                                                                                    | 5.5b           | 0.0394             | 0.0142                       | 0.361                                    | 0.443                         | 0.666                                        | 61             | 84               | 0.011                  | 0.068                  |
| Skilled attendant at delivery                                                                                                                                                                                    | 5.7            | 0.3217             | 0.0149                       | 0.046                                    | 0.085                         | 0.291                                        | 61             | 84               | 0.292                  | 0.352                  |
| Institutional deliveries                                                                                                                                                                                         | 5.8            | 0.0980             | 0.0068                       | 0.070                                    | 0.044                         | 0.209                                        | 61             | 84               | 0.084                  | 0.112                  |
| Literacy rate among young women                                                                                                                                                                                  | 7.1            | 0.1742             | 0.0353                       | 0.203                                    | 2.531                         | 1.591                                        | 221            | 293              | 0.104                  | 0.245                  |
| <b>UNDER-5s</b>                                                                                                                                                                                                  |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Tuberculosis immunization coverage                                                                                                                                                                               | -              | 0.3111             | 0.0677                       | 0.218                                    | 1.413                         | 1.189                                        | 48             | 67               | 0.176                  | 0.447                  |
| Received polio immunization                                                                                                                                                                                      | -              | 0.6012             | 0.0730                       | 0.121                                    | 0.578                         | 0.760                                        | 19             | 27               | 0.455                  | 0.747                  |
| Received DPT immunization                                                                                                                                                                                        | -              | 0.0862             | 0.0632                       | 0.733                                    | 2.840                         | 1.685                                        | 41             | 57               | 0.000                  | 0.213                  |
| Received measles immunization                                                                                                                                                                                    | -              | 0.0916             | 0.0443                       | 0.483                                    | 1.225                         | 1.107                                        | 38             | 53               | 0.003                  | 0.180                  |
| Received Hepatitis B immunization                                                                                                                                                                                | -              | 0.0458             | 0.0351                       | 0.767                                    | 1.498                         | 1.224                                        | 39             | 54               | 0.000                  | 0.116                  |
| Diarrhoea in the previous 2 weeks                                                                                                                                                                                | -              | 0.0932             | 0.0164                       | 0.176                                    | 1.805                         | 1.343                                        | 398            | 565              | 0.060                  | 0.126                  |

**Table D27: Sampling errors: Sherani**

Standard errors, coefficients of variation, design effects (*deff*), square root of design effects (*deft*) and confidence intervals for selected indicators, Balochistan Province, Pakistan, 2010

|                                                               | MICS Indicator | Value ( <i>r</i> ) | Standard error ( <i>se</i> ) | Coefficient of variation ( <i>se/r</i> ) | Design effect ( <i>deff</i> ) | Square root of design effect ( <i>deft</i> ) | Weighted count | Unweighted count | Confidence limits      |                        |
|---------------------------------------------------------------|----------------|--------------------|------------------------------|------------------------------------------|-------------------------------|----------------------------------------------|----------------|------------------|------------------------|------------------------|
|                                                               |                |                    |                              |                                          |                               |                                              |                |                  | <i>r</i> - 2 <i>se</i> | <i>r</i> + 2 <i>se</i> |
| <b>HOUSEHOLDS</b>                                             |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Iodized salt consumption                                      | 2.16           | 0.0578             | 0.0148                       | 0.256                                    | 1.259                         | 1.122                                        | 139            | 313              | 0.028                  | 0.087                  |
| <b>HOUSEHOLD MEMBERS</b>                                      |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Use of improved drinking water sources                        | 4.1            | 0.6118             | 0.0347                       | 0.057                                    | 1.664                         | 1.290                                        | 1028           | 329              | 0.542                  | 0.681                  |
| Use of improved sanitation facilities                         | 4.3            | 0.3944             | 0.0427                       | 0.108                                    | 2.504                         | 1.582                                        | 1028           | 329              | 0.309                  | 0.480                  |
| Secondary school net attendance ratio (adjusted)              | 7.5            | 0.1284             | 0.0280                       | 0.218                                    | 2.393                         | 1.547                                        | 150            | 343              | 0.072                  | 0.184                  |
| <b>WOMEN</b>                                                  |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Contraceptive prevalence                                      | 5.3            | 0.0570             | 0.0136                       | 0.238                                    | 0.928                         | 0.963                                        | 114            | 272              | 0.030                  | 0.084                  |
| Antenatal care coverage - at least once by skilled personnel  | 5.5a           | 0.2818             | 0.1055                       | 0.374                                    | 0.715                         | 0.846                                        | 6              | 14               | 0.071                  | 0.493                  |
| Antenatal care coverage – at least four times by any provider | 5.5b           | 0.0000             | 0.0000                       | .                                        | .                             | .                                            | 6              | 14               | 0.000                  | 0.000                  |
| Skilled attendant at delivery                                 | 5.7            | 0.2338             | 0.1040                       | 0.445                                    | 0.785                         | 0.886                                        | 6              | 14               | 0.026                  | 0.442                  |
| Institutional deliveries                                      | 5.8            | 0.1338             | 0.1010                       | 0.755                                    | 1.144                         | 1.069                                        | 6              | 14               | 0.000                  | 0.336                  |
| Literacy rate among young women                               | 7.1            | 0.0690             | 0.0144                       | 0.209                                    | 0.479                         | 0.692                                        | 67             | 149              | 0.040                  | 0.098                  |
| <b>UNDER-5s</b>                                               |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Tuberculosis immunization coverage                            | -              | 0.0460             | 0.0059                       | 0.128                                    | 0.021                         | 0.144                                        | 12             | 27               | 0.034                  | 0.058                  |
| Received polio immunization                                   | -              | 0.0775             | 0.0524                       | 0.676                                    | 0.960                         | 0.980                                        | 12             | 26               | 0.000                  | 0.182                  |
| Received DPT immunization                                     | -              | 0.0000             | 0.0000                       | .                                        | .                             | .                                            | 12             | 27               | 0.000                  | 0.000                  |
| Received measles immunization                                 | -              | 0.0245             | 0.0032                       | 0.128                                    | 0.011                         | 0.104                                        | 12             | 27               | 0.018                  | 0.031                  |
| Received Hepatitis B immunization                             | -              | 0.0000             | 0.0000                       | .                                        | .                             | .                                            | 12             | 27               | 0.000                  | 0.000                  |
| Diarrhoea in the previous 2 weeks                             | -              | 0.1336             | 0.0451                       | 0.338                                    | 3.706                         | 1.925                                        | 89             | 212              | 0.043                  | 0.224                  |



**Table D28: Sampling errors: Musakhail**

Standard errors, coefficients of variation, design effects (*deff*), square root of design effects (*deff*) and confidence intervals for selected indicators, Balochistan Province, Pakistan, 2010

|                                                               | MICS Indicator | Value ( <i>r</i> ) | Standard error ( <i>se</i> ) | Coefficient of variation ( <i>se/r</i> ) | Design effect ( <i>deff</i> ) | Square root of design effect ( <i>deff</i> ) | Weighted count | Unweighted count | Confidence limits      |                        |
|---------------------------------------------------------------|----------------|--------------------|------------------------------|------------------------------------------|-------------------------------|----------------------------------------------|----------------|------------------|------------------------|------------------------|
|                                                               |                |                    |                              |                                          |                               |                                              |                |                  | <i>r</i> - 2 <i>se</i> | <i>r</i> + 2 <i>se</i> |
| <b>HOUSEHOLDS</b>                                             |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Iodized salt consumption                                      | 2.16           | 0.0026             | 0.0026                       | 1.002                                    | 1.006                         | 1.003                                        | 201            | 384              | 0.000                  | 0.008                  |
| <b>HOUSEHOLD MEMBERS</b>                                      |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Use of improved drinking water sources                        | 4.1            | 0.4638             | 0.0878                       | 0.189                                    | 11.907                        | 3.451                                        | 1426           | 385              | 0.288                  | 0.639                  |
| Use of improved sanitation facilities                         | 4.3            | 0.2664             | 0.0741                       | 0.278                                    | 10.780                        | 3.283                                        | 1426           | 385              | 0.118                  | 0.415                  |
| Secondary school net attendance ratio (adjusted)              | 7.5            | 0.1500             | 0.0211                       | 0.141                                    | 1.209                         | 1.099                                        | 179            | 346              | 0.108                  | 0.192                  |
| <b>WOMEN</b>                                                  |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Contraceptive prevalence                                      | 5.3            | 0.0160             | 0.0089                       | 0.559                                    | 2.137                         | 1.462                                        | 202            | 422              | 0.000                  | 0.034                  |
| Antenatal care coverage - at least once by skilled personnel  | 5.5a           | 0.0000             | 0.0000                       | .                                        | .                             | .                                            | 15             | 43               | 0.000                  | 0.000                  |
| Antenatal care coverage – at least four times by any provider | 5.5b           | 0.0000             | 0.0000                       | .                                        | .                             | .                                            | 15             | 43               | 0.000                  | 0.000                  |
| Skilled attendant at delivery                                 | 5.7            | 0.0147             | 0.0149                       | 1.014                                    | 0.643                         | 0.802                                        | 15             | 43               | 0.000                  | 0.044                  |
| Institutional deliveries                                      | 5.8            | 0.0147             | 0.0149                       | 1.014                                    | 0.643                         | 0.802                                        | 15             | 43               | 0.000                  | 0.044                  |
| Literacy rate among young women                               | 7.1            | 0.1625             | 0.0369                       | 0.227                                    | 1.499                         | 1.225                                        | 70             | 151              | 0.089                  | 0.236                  |
| <b>UNDER-5s</b>                                               |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Tuberculosis immunization coverage                            | -              | 0.0000             | 0.0000                       | .                                        | .                             | .                                            | 20             | 45               | 0.000                  | 0.000                  |
| Received polio immunization                                   | -              | 0.5608             | 0.1742                       | 0.311                                    | 1.724                         | 1.313                                        | 7              | 15               | 0.212                  | 0.909                  |
| Received DPT immunization                                     | -              | 0.0000             | 0.0000                       | .                                        | .                             | .                                            | 21             | 47               | 0.000                  | 0.000                  |
| Received measles immunization                                 | -              | 0.0118             | 0.0014                       | 0.122                                    | 0.008                         | 0.089                                        | 20             | 45               | 0.009                  | 0.015                  |
| Received Hepatitis B immunization                             | -              | 0.0000             | 0.0000                       | .                                        | .                             | .                                            | 21             | 47               | 0.000                  | 0.000                  |
| Diarrhoea in the previous 2 weeks                             | -              | 0.0146             | 0.0083                       | 0.566                                    | 1.639                         | 1.280                                        | 159            | 346              | 0.000                  | 0.031                  |

| <b>Table D29: Sampling errors: Loralai</b>                                                                                                                                                                       |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------|------------------------------|------------------------------------------|-------------------------------|----------------------------------------------|----------------|------------------|------------------------|------------------------|
| Standard errors, coefficients of variation, design effects ( <i>deff</i> ), square root of design effects ( <i>deff</i> ) and confidence intervals for selected indicators, Balochistan Province, Pakistan, 2010 |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
|                                                                                                                                                                                                                  | MICS Indicator | Value ( <i>r</i> ) | Standard error ( <i>se</i> ) | Coefficient of variation ( <i>se/r</i> ) | Design effect ( <i>deff</i> ) | Square root of design effect ( <i>deff</i> ) | Weighted count | Unweighted count | Confidence limits      |                        |
|                                                                                                                                                                                                                  |                |                    |                              |                                          |                               |                                              |                |                  | <i>r</i> - 2 <i>se</i> | <i>r</i> + 2 <i>se</i> |
| <b>HOUSEHOLDS</b>                                                                                                                                                                                                |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Iodized salt consumption                                                                                                                                                                                         | 2.16           | 0.0511             | 0.0095                       | 0.186                                    | 0.793                         | 0.891                                        | 520            | 427              | 0.032                  | 0.070                  |
| <b>HOUSEHOLD MEMBERS</b>                                                                                                                                                                                         |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Use of improved drinking water sources                                                                                                                                                                           | 4.1            | 0.6254             | 0.0472                       | 0.075                                    | 4.205                         | 2.050                                        | 4044           | 444              | 0.531                  | 0.720                  |
| Use of improved sanitation facilities                                                                                                                                                                            | 4.3            | 0.4647             | 0.0381                       | 0.082                                    | 2.583                         | 1.607                                        | 4044           | 444              | 0.389                  | 0.541                  |
| Secondary school net attendance ratio (adjusted)                                                                                                                                                                 | 7.5            | 0.1458             | 0.0217                       | 0.149                                    | 1.969                         | 1.403                                        | 604            | 522              | 0.102                  | 0.189                  |
| <b>WOMEN</b>                                                                                                                                                                                                     |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Contraceptive prevalence                                                                                                                                                                                         | 5.3            | 0.0497             | 0.0072                       | 0.145                                    | 0.463                         | 0.681                                        | 485            | 422              | 0.035                  | 0.064                  |
| Antenatal care coverage - at least once by skilled personnel                                                                                                                                                     | 5.5a           | 0.2678             | 0.0858                       | 0.320                                    | 2.215                         | 1.488                                        | 71             | 60               | 0.096                  | 0.439                  |
| Antenatal care coverage – at least four times by any provider                                                                                                                                                    | 5.5b           | 0.0119             | 0.0111                       | 0.930                                    | 0.616                         | 0.785                                        | 71             | 60               | 0.000                  | 0.034                  |
| Skilled attendant at delivery                                                                                                                                                                                    | 5.7            | 0.3115             | 0.0765                       | 0.245                                    | 1.608                         | 1.268                                        | 71             | 60               | 0.159                  | 0.464                  |
| Institutional deliveries                                                                                                                                                                                         | 5.8            | 0.1817             | 0.0464                       | 0.255                                    | 0.855                         | 0.925                                        | 71             | 60               | 0.089                  | 0.275                  |
| Literacy rate among young women                                                                                                                                                                                  | 7.1            | 0.1839             | 0.0240                       | 0.130                                    | 1.044                         | 1.022                                        | 279            | 274              | 0.136                  | 0.232                  |
| <b>UNDER-5s</b>                                                                                                                                                                                                  |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Tuberculosis immunization coverage                                                                                                                                                                               | -              | 0.1809             | 0.0276                       | 0.153                                    | 0.216                         | 0.465                                        | 43             | 43               | 0.126                  | 0.236                  |
| Received polio immunization                                                                                                                                                                                      | -              | 0.2798             | 0.0636                       | 0.227                                    | 0.662                         | 0.813                                        | 36             | 34               | 0.153                  | 0.407                  |
| Received DPT immunization                                                                                                                                                                                        | -              | 0.0338             | 0.0033                       | 0.098                                    | 0.014                         | 0.117                                        | 41             | 42               | 0.027                  | 0.040                  |
| Received measles immunization                                                                                                                                                                                    | -              | 0.2098             | 0.0274                       | 0.130                                    | 0.190                         | 0.435                                        | 43             | 43               | 0.155                  | 0.264                  |
| Received Hepatitis B immunization                                                                                                                                                                                | -              | 0.0000             | 0.0000                       | .                                        | .                             | .                                            | 40             | 40               | 0.000                  | 0.000                  |
| Diarrhoea in the previous 2 weeks                                                                                                                                                                                | -              | 0.0811             | 0.0109                       | 0.134                                    | 0.582                         | 0.763                                        | 431            | 367              | 0.059                  | 0.103                  |

| <b>Table D30: Sampling errors: Barkhan</b>                                                                                                                                                                       |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------|------------------------------|------------------------------------------|-------------------------------|----------------------------------------------|----------------|------------------|------------------------|------------------------|
| Standard errors, coefficients of variation, design effects ( <i>deff</i> ), square root of design effects ( <i>deff</i> ) and confidence intervals for selected indicators, Balochistan Province, Pakistan, 2010 |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
|                                                                                                                                                                                                                  | MICS Indicator | Value ( <i>r</i> ) | Standard error ( <i>se</i> ) | Coefficient of variation ( <i>se/r</i> ) | Design effect ( <i>deff</i> ) | Square root of design effect ( <i>deff</i> ) | Weighted count | Unweighted count | Confidence limits      |                        |
|                                                                                                                                                                                                                  |                |                    |                              |                                          |                               |                                              |                |                  | <i>r</i> - 2 <i>se</i> | <i>r</i> + 2 <i>se</i> |
| <b>HOUSEHOLDS</b>                                                                                                                                                                                                |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Iodized salt consumption                                                                                                                                                                                         | 2.16           | 0.0235             | 0.0087                       | 0.371                                    | 1.092                         | 1.045                                        | 184            | 330              | 0.006                  | 0.041                  |
| <b>HOUSEHOLD MEMBERS</b>                                                                                                                                                                                         |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Use of improved drinking water sources                                                                                                                                                                           | 4.1            | 0.8204             | 0.0332                       | 0.040                                    | 2.583                         | 1.607                                        | 1395           | 346              | 0.754                  | 0.887                  |
| Use of improved sanitation facilities                                                                                                                                                                            | 4.3            | 0.6215             | 0.0554                       | 0.089                                    | 4.503                         | 2.122                                        | 1395           | 346              | 0.511                  | 0.732                  |
| Secondary school net attendance ratio (adjusted)                                                                                                                                                                 | 7.5            | 0.3176             | 0.0410                       | 0.129                                    | 2.840                         | 1.685                                        | 211            | 368              | 0.236                  | 0.400                  |
| <b>WOMEN</b>                                                                                                                                                                                                     |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Contraceptive prevalence                                                                                                                                                                                         | 5.3            | 0.0240             | 0.0076                       | 0.317                                    | 0.818                         | 0.904                                        | 175            | 331              | 0.009                  | 0.039                  |
| Antenatal care coverage - at least once by skilled personnel                                                                                                                                                     | 5.5a           | 0.2038             | 0.0536                       | 0.263                                    | 0.655                         | 0.809                                        | 19             | 38               | 0.097                  | 0.311                  |
| Antenatal care coverage – at least four times by any provider                                                                                                                                                    | 5.5b           | 0.0000             | 0.0000                       | .                                        | .                             | .                                            | 19             | 38               | 0.000                  | 0.000                  |
| Skilled attendant at delivery                                                                                                                                                                                    | 5.7            | 0.0652             | 0.0419                       | 0.642                                    | 1.064                         | 1.031                                        | 19             | 38               | 0.000                  | 0.149                  |
| Institutional deliveries                                                                                                                                                                                         | 5.8            | 0.0652             | 0.0419                       | 0.642                                    | 1.064                         | 1.031                                        | 19             | 38               | 0.000                  | 0.149                  |
| Literacy rate among young women                                                                                                                                                                                  | 7.1            | 0.2208             | 0.0555                       | 0.251                                    | 3.082                         | 1.756                                        | 92             | 173              | 0.110                  | 0.332                  |
| <b>UNDER-5s</b>                                                                                                                                                                                                  |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Tuberculosis immunization coverage                                                                                                                                                                               | -              | 0.0496             | 0.0085                       | 0.172                                    | 0.051                         | 0.225                                        | 16             | 34               | 0.033                  | 0.067                  |
| Received polio immunization                                                                                                                                                                                      | -              | 0.3417             | 0.0795                       | 0.233                                    | 0.927                         | 0.963                                        | 16             | 34               | 0.183                  | 0.501                  |
| Received DPT immunization                                                                                                                                                                                        | -              | 0.0000             | 0.0000                       | .                                        | .                             | .                                            | 16             | 34               | 0.000                  | 0.000                  |
| Received measles immunization                                                                                                                                                                                    | -              | 0.0347             | 0.0060                       | 0.172                                    | 0.035                         | 0.187                                        | 16             | 34               | 0.023                  | 0.047                  |
| Received Hepatitis B immunization                                                                                                                                                                                | -              | 0.0000             | 0.0000                       | .                                        | .                             | .                                            | 16             | 33               | 0.000                  | 0.000                  |
| Diarrhoea in the previous 2 weeks                                                                                                                                                                                | -              | 0.3227             | 0.0202                       | 0.062                                    | 0.528                         | 0.727                                        | 146            | 285              | 0.282                  | 0.363                  |

**Table D31: Sampling errors: Kohlu**

Standard errors, coefficients of variation, design effects (*deff*), square root of design effects (*deft*) and confidence intervals for selected indicators, Balochistan Province, Pakistan, 2010

|                                                               | MICS Indicator | Value ( <i>r</i> ) | Standard error ( <i>se</i> ) | Coefficient of variation ( <i>se/r</i> ) | Design effect ( <i>deff</i> ) | Square root of design effect ( <i>deft</i> ) | Weighted count | Unweighted count | Confidence limits      |                        |
|---------------------------------------------------------------|----------------|--------------------|------------------------------|------------------------------------------|-------------------------------|----------------------------------------------|----------------|------------------|------------------------|------------------------|
|                                                               |                |                    |                              |                                          |                               |                                              |                |                  | <i>r</i> - 2 <i>se</i> | <i>r</i> + 2 <i>se</i> |
| <b>HOUSEHOLDS</b>                                             |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Iodized salt consumption                                      | 2.16           | 0.0131             | 0.0067                       | 0.513                                    | 1.158                         | 1.076                                        | 281            | 331              | 0.000                  | 0.027                  |
| <b>HOUSEHOLD MEMBERS</b>                                      |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Use of improved drinking water sources                        | 4.1            | 0.7611             | 0.0302                       | 0.040                                    | 1.654                         | 1.286                                        | 2395           | 331              | 0.701                  | 0.821                  |
| Use of improved sanitation facilities                         | 4.3            | 0.7291             | 0.0466                       | 0.064                                    | 3.623                         | 1.903                                        | 2395           | 331              | 0.636                  | 0.822                  |
| Secondary school net attendance ratio (adjusted)              | 7.5            | 0.3708             | 0.0210                       | 0.057                                    | 0.659                         | 0.812                                        | 342            | 349              | 0.329                  | 0.413                  |
| <b>WOMEN</b>                                                  |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Contraceptive prevalence                                      | 5.3            | 0.0260             | 0.0111                       | 0.427                                    | 1.570                         | 1.253                                        | 265            | 323              | 0.004                  | 0.048                  |
| Antenatal care coverage - at least once by skilled personnel  | 5.5a           | 0.6859             | 0.0985                       | 0.144                                    | 2.839                         | 1.685                                        | 59             | 64               | 0.489                  | 0.883                  |
| Antenatal care coverage – at least four times by any provider | 5.5b           | 0.1408             | 0.0653                       | 0.464                                    | 2.220                         | 1.490                                        | 59             | 64               | 0.010                  | 0.271                  |
| Skilled attendant at delivery                                 | 5.7            | 0.0229             | 0.0113                       | 0.497                                    | 0.363                         | 0.603                                        | 59             | 64               | 0.000                  | 0.046                  |
| Institutional deliveries                                      | 5.8            | 0.0281             | 0.0147                       | 0.523                                    | 0.498                         | 0.705                                        | 59             | 64               | 0.000                  | 0.057                  |
| Literacy rate among young women                               | 7.1            | 0.1166             | 0.0718                       | 0.615                                    | 4.399                         | 2.097                                        | 80             | 89               | 0.000                  | 0.260                  |
| <b>UNDER-5s</b>                                               |                |                    |                              |                                          |                               |                                              |                |                  |                        |                        |
| Tuberculosis immunization coverage                            | -              | 0.0448             | 0.0161                       | 0.359                                    | 0.278                         | 0.527                                        | 41             | 47               | 0.013                  | 0.077                  |
| Received polio immunization                                   | -              | 0.0854             | 0.0356                       | 0.416                                    | 0.762                         | 0.873                                        | 42             | 48               | 0.014                  | 0.157                  |
| Received DPT immunization                                     | -              | 0.0000             | 0.0000                       | .                                        | .                             | .                                            | 39             | 45               | 0.000                  | 0.000                  |
| Received measles immunization                                 | -              | 0.0528             | 0.0195                       | 0.369                                    | 0.357                         | 0.598                                        | 42             | 48               | 0.014                  | 0.092                  |
| Received Hepatitis B immunization                             | -              | 0.0000             | 0.0000                       | .                                        | .                             | .                                            | 42             | 48               | 0.000                  | 0.000                  |
| Diarrhoea in the previous 2 weeks                             | -              | 0.5818             | 0.0243                       | 0.042                                    | 0.743                         | 0.862                                        | 248            | 308              | 0.533                  | 0.630                  |

**Appendix-D Data Quality Tables**

**Table DQ.1: Age distribution of household population**  
**Single-year age distribution of household population by sex, Balochistan Province, Pakistan, 2010**

|     |  | Sex    |         |        |         |         |         |
|-----|--|--------|---------|--------|---------|---------|---------|
|     |  | Male   |         | Female |         | Missing |         |
| AGE |  | Number | Percent | Number | Percent | Number  | Percent |
| 0   |  | 763    | 1.6     | 706    | 1.7     | 0       | 0.0     |
| 1   |  | 850    | 1.7     | 774    | 1.9     | 0       | 0.0     |
| 2   |  | 1,151  | 2.4     | 993    | 2.5     | 2       | 17.3    |
| 3   |  | 1,459  | 3.0     | 1,242  | 3.1     | 0       | 0.0     |
| 4   |  | 1,475  | 3.0     | 1,202  | 3.0     | 2       | 17.3    |
| 5   |  | 1,517  | 3.1     | 1,268  | 3.1     | 0       | 1.4     |
| 6   |  | 1,672  | 3.4     | 1,442  | 3.6     | 0       | 2.2     |
| 7   |  | 1,515  | 3.1     | 1,153  | 2.9     | 0       | 0.0     |
| 8   |  | 1,861  | 3.8     | 1,503  | 3.7     | 0       | 0.0     |
| 9   |  | 1,213  | 2.5     | 957    | 2.4     | 0       | 0.0     |
| 10  |  | 1,871  | 3.8     | 1,455  | 3.6     | 0       | 0.0     |
| 11  |  | 973    | 2.0     | 709    | 1.8     | 0       | 0.0     |
| 12  |  | 1,836  | 3.8     | 1,309  | 3.2     | 0       | 0.0     |
| 13  |  | 1,020  | 2.1     | 974    | 2.4     | 1       | 9.3     |
| 14  |  | 1,224  | 2.5     | 1,296  | 3.2     | 1       | 9.9     |
| 15  |  | 1,587  | 3.3     | 954    | 2.4     | 1       | 9.3     |
| 16  |  | 1,272  | 2.6     | 1,017  | 2.5     | 0       | 0.0     |
| 17  |  | 864    | 1.8     | 722    | 1.8     | 1       | 9.3     |
| 18  |  | 1,549  | 3.2     | 1,395  | 3.4     | 0       | 0.0     |
| 19  |  | 762    | 1.6     | 564    | 1.4     | 1       | 9.3     |
| 20  |  | 1,554  | 3.2     | 1,287  | 3.2     | 0       | 0.0     |
| 21  |  | 438    | 0.9     | 393    | 1.0     | 1       | 9.3     |
| 22  |  | 903    | 1.9     | 655    | 1.6     | 0       | 0.0     |
| 23  |  | 618    | 1.3     | 396    | 1.0     | 0       | 0.0     |
| 24  |  | 593    | 1.2     | 510    | 1.3     | 0       | 0.0     |
| 25  |  | 1,361  | 2.8     | 1,246  | 3.1     | 0       | 0.0     |
| 26  |  | 581    | 1.2     | 459    | 1.1     | 0       | 0.0     |
| 27  |  | 498    | 1.0     | 416    | 1.0     | 0       | 0.0     |
| 28  |  | 837    | 1.7     | 779    | 1.9     | 0       | 0.0     |
| 29  |  | 446    | 0.9     | 429    | 1.1     | 0       | 0.0     |
| 30  |  | 1,494  | 3.1     | 1,309  | 3.2     | 0       | 0.0     |
| 31  |  | 273    | 0.6     | 266    | 0.7     | 0       | 0.0     |
| 32  |  | 526    | 1.1     | 403    | 1.0     | 0       | 0.0     |
| 33  |  | 273    | 0.6     | 302    | 0.7     | 0       | 0.0     |
| 34  |  | 205    | 0.4     | 224    | 0.6     | 0       | 0.0     |
| 35  |  | 1136   | 2.3     | 1,003  | 2.5     | 0       | 0.0     |
| 36  |  | 246    | 0.5     | 258    | 0.6     | 0       | 0.0     |
| 37  |  | 256    | 0.5     | 230    | 0.6     | 0       | 0.0     |
| 38  |  | 402    | 0.8     | 481    | 1.2     | 0       | 0.0     |
| 39  |  | 246    | 0.5     | 325    | 0.8     | 0       | 0.0     |
| 40  |  | 1,293  | 2.7     | 1,016  | 2.5     | 0       | 0.0     |
| 41  |  | 172    | 0.4     | 193    | 0.5     | 0       | 0.0     |
| 42  |  | 322    | 0.7     | 258    | 0.6     | 0       | 0.0     |
| 43  |  | 160    | 0.3     | 169    | 0.4     | 0       | 0.0     |
| 44  |  | 126    | 0.3     | 115    | 0.3     | 0       | 0.0     |
| 45  |  | 952    | 2.0     | 611    | 1.5     | 0       | 0.0     |
| 46  |  | 147    | 0.3     | 149    | 0.4     | 0       | 0.0     |
| 47  |  | 143    | 0.3     | 158    | 0.4     | 0       | 0.0     |
| 48  |  | 315    | 0.6     | 374    | 0.9     | 0       | 0.0     |
| 49  |  | 219    | 0.4     | 208    | 0.5     | 0       | 0.0     |
| 50  |  | 994    | 2.0     | 989    | 2.4     | 0       | 0.0     |

**Table DQ.1: Age distribution of household population**  
**Single-year age distribution of household population by sex, Balochistan Province, Pakistan, 2010**

|            | Sex    |         |        |         |         |         |
|------------|--------|---------|--------|---------|---------|---------|
|            | Male   |         | Female |         | Missing |         |
|            | Number | Percent | Number | Percent | Number  | Percent |
| 51         | 213    | 0.4     | 305    | 0.8     | 0       | 0.0     |
| 52         | 289    | 0.6     | 374    | 0.9     | 0       | 0.0     |
| 53         | 152    | 0.3     | 164    | 0.4     | 0       | 0.0     |
| 54         | 195    | 0.4     | 128    | 0.3     | 0       | 0.0     |
| 55         | 582    | 1.2     | 394    | 1.0     | 0       | 0.0     |
| 56         | 172    | 0.4     | 121    | 0.3     | 0       | 0.0     |
| 57         | 139    | 0.3     | 66     | 0.2     | 0       | 0.0     |
| 58         | 202    | 0.4     | 131    | 0.3     | 0       | 0.0     |
| 59         | 120    | 0.2     | 64     | 0.2     | 0       | 0.0     |
| 60         | 868    | 1.8     | 451    | 1.1     | 0       | 0.0     |
| 61         | 51     | 0.1     | 60     | 0.1     | 0       | 0.0     |
| 62         | 119    | 0.2     | 113    | 0.3     | 0       | 0.0     |
| 63         | 84     | 0.2     | 61     | 0.2     | 0       | 0.0     |
| 64         | 65     | 0.1     | 31     | 0.1     | 0       | 0.0     |
| 65         | 348    | 0.7     | 172    | 0.4     | 0       | 0.0     |
| 66         | 65     | 0.1     | 39     | 0.1     | 0       | 0.0     |
| 67         | 45     | 0.1     | 41     | 0.1     | 0       | 0.0     |
| 68         | 83     | 0.2     | 45     | 0.1     | 0       | 0.0     |
| 69         | 67     | 0.1     | 28     | 0.1     | 0       | 0.0     |
| 70         | 303    | 0.6     | 130    | 0.3     | 0       | 0.0     |
| 71         | 37     | 0.1     | 23     | 0.1     | 0       | 0.0     |
| 72         | 27     | 0.1     | 5      | 0.0     | 0       | 0.0     |
| 73         | 19     | 0.0     | 19     | 0.0     | 0       | 0.0     |
| 74         | 16     | 0.0     | 5      | 0.0     | 0       | 0.0     |
| 75         | 94     | 0.2     | 53     | 0.1     | 0       | 0.0     |
| 76         | 12     | 0.0     | 8      | 0.0     | 0       | 0.0     |
| 77         | 8      | 0.0     | 3      | 0.0     | 0       | 0.0     |
| 78         | 12     | 0.0     | 9      | 0.0     | 0       | 0.0     |
| 79         | 9      | 0.0     | 3      | 0.0     | 0       | 0.0     |
| 80+        | 203    | 0.4     | 135    | 0.3     | 0       | 0.0     |
| DK/missing | 12     | 0.0     | 2      | 0.0     | 1       | 5.4     |
| Total      | 48,774 | 100.0   | 40,433 | 100.0   | 10      | 100.0   |

**Table DQ.2: Age distribution of eligible and interviewed women**  
**Household population of women age 10-54, interviewed women age 15-49, and percentage of eligible women who were interviewed, by five-year age groups, Balochistan Province, Pakistan, 2010**

|               |       | Household population of women age 10-54 | Interviewed women age 15-49 |         | Percentage of eligible women interviewed (Completion rate) |
|---------------|-------|-----------------------------------------|-----------------------------|---------|------------------------------------------------------------|
|               |       | Number                                  | Number                      | Percent |                                                            |
| Age           | 10-14 | 5,742                                   | .                           | .       | .                                                          |
|               | 15-19 | 4,651                                   | 4,313                       | 23.9    | 92.7                                                       |
|               | 20-24 | 3,241                                   | 3,008                       | 16.7    | 92.8                                                       |
|               | 25-29 | 3,330                                   | 3,117                       | 17.3    | 93.6                                                       |
|               | 30-34 | 2,505                                   | 2,380                       | 13.2    | 95.0                                                       |
|               | 35-39 | 2,297                                   | 2,184                       | 12.1    | 95.1                                                       |
|               | 40-44 | 1,752                                   | 1,615                       | 9.0     | 92.2                                                       |
|               | 45-49 | 1,501                                   | 1,403                       | 7.8     | 93.4                                                       |
|               | 50-54 | 1,959                                   | .                           | .       | .                                                          |
| Total (15-49) |       | 19,278                                  | 18,020                      | 100.0   | 93.5                                                       |

**Table DQ.3: Age distribution of under-5s in household and under-5 questionnaires**  
**Household population of children age 0-7, children age 0-4 whose mothers/caretakers were interviewed, and percentage of under-5 children whose mothers/caretakers were interviewed, by single ages, Balochistan, 2010**

|             |   | Household population of children 0-7 years | Interviewed under-5 children |         | Percentage of eligible under-5s interviewed (Completion rate) |
|-------------|---|--------------------------------------------|------------------------------|---------|---------------------------------------------------------------|
|             |   | Number                                     | Number                       | Percent |                                                               |
| Age         | 0 | 1,468                                      | 1,369                        | 13.8    | 93.3                                                          |
|             | 1 | 1,624                                      | 1,514                        | 15.3    | 93.3                                                          |
|             | 2 | 2,146                                      | 2,012                        | 20.3    | 93.7                                                          |
|             | 3 | 2,701                                      | 2,513                        | 25.4    | 93.0                                                          |
|             | 4 | 2,679                                      | 2,482                        | 25.1    | 92.7                                                          |
|             | 5 | 2,785                                      | .                            | .       | .                                                             |
|             | 6 | 3,115                                      | .                            | .       | .                                                             |
|             | 7 | 2,668                                      | .                            | .       | .                                                             |
| Total (0-4) |   | 10,618                                     | 9,890                        | 100.0   | 93.1                                                          |



**Table DQ.4: Women's completion rates by socio-economic characteristics of households**  
**Household population of women age 15-49, interviewed women age 15-49, and percentage of eligible women who**  
**were interviewed, by selected social and economic characteristics of the household,**  
**Balochistan Province, Pakistan, 2010**

|                             |            | Household population of women age 15-49 years |       | Interviewed women age 15-49 years |       | Percent of eligible women interviewed (Completion rates) |
|-----------------------------|------------|-----------------------------------------------|-------|-----------------------------------|-------|----------------------------------------------------------|
| Region                      | Quetta     | 5,269                                         | 27.3  | 4,813                             | 26.7  | 91.3                                                     |
|                             | Kalat      | 4,198                                         | 21.8  | 3,936                             | 21.8  | 93.8                                                     |
|                             | Sibi       | 1,343                                         | 7.0   | 1,269                             | 7.0   | 94.5                                                     |
|                             | Zhob       | 2,719                                         | 14.1  | 2,623                             | 14.6  | 96.5                                                     |
|                             | Nasirabad  | 3,434                                         | 17.8  | 3,122                             | 17.3  | 90.9                                                     |
|                             | Makran     | 2,315                                         | 12.0  | 2,256                             | 12.5  | 97.4                                                     |
| Area                        | Urban      | 4,800                                         | 24.9  | 4,371                             | 24.3  | 91.1                                                     |
|                             | Rural      | 14,477                                        | 75.1  | 13,648                            | 75.7  | 94.3                                                     |
| Household size              | 1-3        | 6,807                                         | 35.3  | 566                               | 3.1   | 95.4                                                     |
|                             | 4-6        | 5,253                                         | 27.2  | 4,193                             | 23.3  | 94.7                                                     |
|                             | 7+         | 7,218                                         | 37.4  | 13,261                            | 73.6  | 93.0                                                     |
| Education of household head | None       | 11,188                                        | 58.0  | 10,534                            | 58.5  | 94.2                                                     |
|                             | Preschool  | 17                                            | 0.1   | 15                                | 0.1   | 87.7                                                     |
|                             | Primary    | 1,751                                         | 9.1   | 1,624                             | 9.0   | 92.8                                                     |
|                             | Middle     | 1,230                                         | 6.4   | 1,145                             | 6.4   | 93.1                                                     |
|                             | Matric     | 2,671                                         | 13.9  | 2,479                             | 13.8  | 92.8                                                     |
|                             | Higher     | 2,324                                         | 12.1  | 2,132                             | 11.8  | 91.8                                                     |
|                             | Madrassa   | 62                                            | 0.3   | 56                                | 0.3   | 89.8                                                     |
|                             | Missing/DK | 36                                            | 0.2   | 35                                | 0.2   | 96.6                                                     |
| Wealth index quintiles      | Poorest    | 3,774                                         | 19.6  | 3,580                             | 19.9  | 94.9                                                     |
|                             | Second     | 3835                                          | 19.9  | 3616                              | 20.1  | 94.3                                                     |
|                             | Middle     | 3678                                          | 19.1  | 3462                              | 19.2  | 94.1                                                     |
|                             | Fourth     | 3796                                          | 19.7  | 3572                              | 19.8  | 94.1                                                     |
|                             | Richest    | 4194                                          | 21.8  | 3790                              | 21.0  | 90.4                                                     |
| Total                       |            | 19278                                         | 100.0 | 18020                             | 100.0 | 93.5                                                     |

**Table DQ.5: Completion rates for under-5 questionnaires by socio-economic characteristics of households**  
**Household population of under-5 children, under-5 questionnaires completed, and percentage of under-5 children for**  
**whom interviews were completed, by selected socio-economic characteristics of the household, Balochistan Province,**  
**Pakistan, 2010**

|                             |            | Household population of under-5 children |       | Interviewed under-5 children |       | Percent of eligible under-5s with completed under-5 questionnaires (Completion rates) |
|-----------------------------|------------|------------------------------------------|-------|------------------------------|-------|---------------------------------------------------------------------------------------|
| Region                      | Quetta     | 2,784                                    | 26.2  | 2,514                        | 25.4  | 90.3                                                                                  |
|                             | Kalat      | 2,241                                    | 21.1  | 2,101                        | 21.2  | 93.8                                                                                  |
|                             | Sibi       | 868                                      | 8.2   | 831                          | 8.4   | 95.7                                                                                  |
|                             | Zhob       | 1,753                                    | 16.5  | 1,716                        | 17.4  | 97.9                                                                                  |
|                             | Nasirabad  | 1,901                                    | 17.9  | 1,685                        | 17.0  | 88.7                                                                                  |
|                             | Makran     | 1,071                                    | 10.1  | 1,042                        | 10.5  | 97.3                                                                                  |
| Area                        | Urban      | 2,218                                    | 20.9  | 2,018                        | 20.4  | 91.0                                                                                  |
|                             | Rural      | 8,399                                    | 79.1  | 7,872                        | 79.6  | 93.7                                                                                  |
| Household size              | 1-3        | 379                                      | 3.6   | 191                          | 1.9   | 97.0                                                                                  |
|                             | 4-6        | 3,339                                    | 31.4  | 2,355                        | 23.8  | 95.5                                                                                  |
|                             | 7+         | 6,900                                    | 65.0  | 7,343                        | 74.3  | 92.3                                                                                  |
| Education of household head | None       | 5,976                                    | 56.3  | 5,618                        | 56.8  | 94.0                                                                                  |
|                             | Preschool  | 18                                       | 0.2   | 16                           | 0.2   | 88.4                                                                                  |
|                             | Primary    | 1,148                                    | 10.8  | 1,048                        | 10.6  | 91.3                                                                                  |
|                             | Middle     | 716                                      | 6.7   | 667                          | 6.7   | 93.1                                                                                  |
|                             | Matric     | 1,552                                    | 14.6  | 1,441                        | 14.6  | 92.8                                                                                  |
|                             | Higher     | 1,141                                    | 10.7  | 1,040                        | 10.5  | 91.2                                                                                  |
|                             | Madrassa   | 42                                       | 0.4   | 37                           | 0.4   | 86.0                                                                                  |
|                             | Missing/DK | 24                                       | 0.2   | 23                           | 0.2   | 96.5                                                                                  |
| Wealth index quintiles      | Poorest    | 2,198                                    | 20.7  | 2,090                        | 21.1  | 95.1                                                                                  |
|                             | Second     | 2,175                                    | 20.5  | 2,065                        | 20.9  | 95.0                                                                                  |
|                             | Middle     | 2,272                                    | 21.4  | 2,100                        | 21.2  | 92.4                                                                                  |
|                             | Fourth     | 2,039                                    | 19.2  | 1,900                        | 19.2  | 93.2                                                                                  |
|                             | Richest    | 1,934                                    | 18.2  | 1,734                        | 17.5  | 89.7                                                                                  |
| Total                       |            | 10,618                                   | 100.0 | 9,890                        | 100.0 | 93.1                                                                                  |

**Table DQ.6: Completeness of reporting**  
**Percentage of observations that are missing information for selected questions and indicators, Balochistan Province, Pakistan, 2010**

|     | Percent with missing/incomplete information* | Number of cases |
|-----|----------------------------------------------|-----------------|
| Age | .0                                           | 88,427          |

**Table DQ.6a: Completeness of reporting**  
**Percentage of observations that are missing information for selected questions and indicators, Balochistan Province, Pakistan, 2010**

|                            | Percent with missing/incomplete information* | Number of cases |
|----------------------------|----------------------------------------------|-----------------|
| Salt testing               | 0.5                                          | 11,612          |
| Starting time of interview | 3.4                                          | 11,612          |
| Ending time of interview   | 4.2                                          | 11,612          |

**Table DQ.6b: Completeness of reporting**  
**Percentage of observations that are missing information for selected questions and indicators, Balochistan Province, Pakistan, 2010**

|                                                   | Percent with missing/incomplete information* | Number of cases |
|---------------------------------------------------|----------------------------------------------|-----------------|
| Woman's date of birth: Only month                 | 25.6                                         | 17,732          |
| Woman's date of birth: Both month and year        | 46.3                                         | 17,732          |
| Date of first birth: Only month                   | 27.6                                         | 10,318          |
| Date of first birth: Both month and year          | 32.2                                         | 10,318          |
| Completed years since first birth                 | 0.1                                          | 3,339           |
| Date of last birth: Only month                    | 24.9                                         | 10,318          |
| Date of last birth: Both month and year           | 17.9                                         | 10,318          |
| Date of first marriage/union: Only month          | 12.3                                         | 11,381          |
| Date of first marriage/union: Both month and year | 78.7                                         | 11,381          |
| Age at first marriage/union                       | 7.3                                          | 11,381          |
| Starting time of interview                        | 4.3                                          | 17,732          |
| Ending time of interview                          | 4.1                                          | 17,732          |

**Table DQ.6c: Completeness of reporting**  
**Percentage of observations that are missing information for selected questions and indicators, Balochistan Province, Pakistan, 2010**

|                                                     | <b>Percent with missing/incomplete information*</b> | <b>Number of cases</b> |
|-----------------------------------------------------|-----------------------------------------------------|------------------------|
| Date of birth: Only month                           | 21.8                                                | 9,734                  |
| Date of birth: Both month and year                  | 15.3                                                | 9,734                  |
| Anthropometric measurements: Weight                 | 27.1                                                | 9,734                  |
| Anthropometric measurements: Height                 | 29.9                                                | 9,734                  |
| Anthropometric measurements: Both weight and height | 26.6                                                | 9,734                  |
| Starting time of interview                          | 4.5                                                 | 9,734                  |
| Ending time of interview                            | 4.0                                                 | 9,734                  |

Note: In fact, data on anthropometric measurement was dropped from the analysis. The factors that contributed to poor quality of anthropometric measurement included: (i) only half day training was provided to the field staff; (ii) teams did not have measurers; and (iii) the questionnaire contained an error, i.e. a decimal point was not included in the space for where weight measurements were recorded. This resulted in 93% of weights being recorded as rounded numbers.

**Table DQ.7A: Completeness of information for anthropometric indicators**  
**Distribution of children under 5 by completeness of information for anthropometric indicators, Balochistan Province, Pakistan, 2010**

|               |                                | Reason for exclusion from analysis |                          |                                               |                          |     | Total | Percent of children excluded from analysis | Number of children under 5 |
|---------------|--------------------------------|------------------------------------|--------------------------|-----------------------------------------------|--------------------------|-----|-------|--------------------------------------------|----------------------------|
|               | Valid weight and date of birth | Weight not measured                | Incomplete date of birth | Weight not measured, incomplete date of birth | Flagged cases (outliers) |     |       |                                            |                            |
| Weight by age | <6 month                       | 45.0                               | 0.4                      | 9.3                                           | 0.1                      | 5.3 | 100.0 | 15.2                                       | 751                        |
|               | 6-11 month                     | 50.4                               | 0.7                      | 11.3                                          | 0.2                      | 5.2 | 100.0 | 17.3                                       | 560                        |
|               | 12-23 month                    | 48.4                               | 0.3                      | 20.9                                          | 0.1                      | 3.7 | 100.0 | 25.0                                       | 1,440                      |
|               | 24-35 month                    | 44.0                               | 0.1                      | 28.0                                          | 0.2                      | 2.6 | 100.0 | 31.0                                       | 2,003                      |
|               | 36-47 month                    | 40.3                               | 0.3                      | 30.3                                          | 0.4                      | 0.4 | 100.0 | 31.4                                       | 2,528                      |
|               | 48-59 month                    | 39.1                               | 0.1                      | 29.9                                          | 0.1                      | 0.2 | 100.0 | 30.3                                       | 2,452                      |
|               | Total                          | 42.9                               | 0.2                      | 25.6                                          | 0.2                      | 2.0 | 100.0 | 28.0                                       | 9,734                      |

Note: In fact, data on anthropometric measurement was dropped from the analysis. The factors that contributed to poor quality of anthropometric measurement included: (i) only half day training was provided to the field staff; (ii) teams did not have measurers; and (iii) the questionnaire contained an error, i.e. a decimal point was not included in the space for where weight measurements were recorded. This resulted in 93% of weights being recorded as rounded numbers.

**Table DQ.7B: Completeness of information for anthropometric indicators**  
**Distribution of children under 5 by completeness of information for anthropometric indicators, Balochistan Province, Pakistan, 2010**

|               | Valid height and date of birth | Reason for exclusion from analysis |                          |                                               |                          | Total | Percent of children excluded from analysis | Number of children under 5 |       |
|---------------|--------------------------------|------------------------------------|--------------------------|-----------------------------------------------|--------------------------|-------|--------------------------------------------|----------------------------|-------|
|               |                                | Height not measured                | Incomplete date of birth | Height not measured, incomplete date of birth | Flagged cases (outliers) |       |                                            |                            |       |
| Height by age | <6 months                      | 36.6                               | 4.7                      | 6.1                                           | 3.3                      | 9.5   | 100.0                                      | 23.6                       | 751   |
|               | 6-11 months                    | 37.9                               | 3.2                      | 9.1                                           | 2.3                      | 15.2  | 100.0                                      | 29.8                       | 560   |
|               | 12-23 months                   | 36.5                               | 4.0                      | 17.9                                          | 3.1                      | 11.9  | 100.0                                      | 36.9                       | 1,440 |
|               | 24-35 months                   | 32.4                               | 1.7                      | 25.3                                          | 2.9                      | 12.6  | 100.0                                      | 42.5                       | 2,003 |
|               | 36-47 months                   | 36.9                               | 0.5                      | 28.6                                          | 2.1                      | 3.5   | 100.0                                      | 34.8                       | 2,528 |
|               | 48-59 months                   | 35.8                               | 0.5                      | 28.8                                          | 1.2                      | 3.1   | 100.0                                      | 33.5                       | 2,452 |
|               | Total                          | 35.7                               | 1.8                      | 23.5                                          | 2.3                      | 7.6   | 100.0                                      | 35.2                       | 9,734 |

Note: In fact, data on anthropometric measurement was dropped from the analysis. The factors that contributed to poor quality of anthropometric measurement included: (i) only half day training provided to the field staff; (ii) teams did not have measurers; and (iii) the questionnaire contained an error, i.e. a decimal point was not included in the space for where weight measurements were recorded. This resulted in 93% of weights being recorded as rounded numbers.

**Table DQ.7C: Completeness of information for anthropometric indicators**  
**Distribution of children under 5 by completeness of information for anthropometric indicators, Balochistan Province, Pakistan, 2010**

|                         |              | Valid weight and height | Reason for exclusion from analysis |                     |                          |                                               |                                               |                                                          | Flagged cases (outliers) | Total | Percent of children excluded from analysis | Number of children under 5 |
|-------------------------|--------------|-------------------------|------------------------------------|---------------------|--------------------------|-----------------------------------------------|-----------------------------------------------|----------------------------------------------------------|--------------------------|-------|--------------------------------------------|----------------------------|
|                         |              |                         | Weight not measured                | Height not measured | Incomplete date of birth | Weight not measured, incomplete date of birth | Height not measured, incomplete date of birth | Weight and height not measured, incomplete date of birth |                          |       |                                            |                            |
| <b>Weight by height</b> | <6 month     | 25.8                    | 0.4                                | 4.7                 | 6.0                      | 0.1                                           | 3.3                                           | 0.0                                                      | 19.8                     | 100.0 | 34.4                                       | 751                        |
|                         | 6-11 month   | 33.9                    | 0.7                                | 3.2                 | 8.9                      | 0.2                                           | 2.3                                           | 0.0                                                      | 18.4                     | 100.0 | 33.8                                       | 560                        |
|                         | 12-23 month  | 34.1                    | 0.3                                | 4.0                 | 17.8                     | 0.1                                           | 3.1                                           | 0.0                                                      | 14.0                     | 100.0 | 39.3                                       | 1,440                      |
|                         | 24-35 month  | 26.5                    | 0.1                                | 1.7                 | 25.1                     | 0.2                                           | 2.9                                           | 0.0                                                      | 18.4                     | 100.0 | 48.5                                       | 2,003                      |
|                         | 36-47 month  | 35.0                    | 0.3                                | 0.5                 | 28.2                     | 0.4                                           | 2.1                                           | 0.0                                                      | 5.2                      | 100.0 | 36.7                                       | 2,528                      |
|                         | 48-59 month  | 32.9                    | 0.1                                | 0.5                 | 28.6                     | 0.1                                           | 1.2                                           | 0.0                                                      | 5.9                      | 100.0 | 36.5                                       | 2452                       |
|                         | <b>Total</b> |                         | 31.8                               | 0.2                 | 1.8                      | 23.3                                          | 0.2                                           | 2.3                                                      | 0.0                      | 11.3  | 100.0                                      | 39.1                       |

Note: In fact, data on anthropometric measurement was dropped from the analysis. The factors that contributed to poor quality of anthropometric measurement included: (i) only half day training was provided to the field staff; (ii) teams did not have measurers; and (iii) the questionnaire contained an error, i.e. a decimal point was not included in the space for where weight measurements were recorded. This resulted in 93% of weights being recorded as rounded numbers.

**Table DQ.8: Heaping in anthropometric measurements**  
**Distribution of weight and height/length measurements by digits reported for decimals, Balochistan Province, Pakistan, 2010**

| Digits |        | Weight |         | Height |         |
|--------|--------|--------|---------|--------|---------|
|        |        | Number | Percent | Number | Percent |
|        | 0      | 6,349  | 92.6    | 3,112  | 45.1    |
|        | 1      | 60     | .9      | 533    | 7.7     |
|        | 2      | 77     | 1.1     | 836    | 12.1    |
|        | 3      | 79     | 1.2     | 511    | 7.4     |
|        | 4      | 50     | .7      | 193    | 2.8     |
|        | 5      | 112    | 1.6     | 1,156  | 16.7    |
|        | 6      | 35     | .5      | 172    | 2.5     |
|        | 7      | 46     | .7      | 139    | 2.0     |
|        | 8      | 20     | .3      | 119    | 1.7     |
|        | 9      | 30     | .4      | 132    | 1.9     |
|        | 0 or 5 | 6,461  | 94.2    | 4,268  | 61.8    |
|        | Total  | 6,858  | 100.0   | 6,903  | 100.0   |

Note: Anthropometric measurements not provided in the report because of data problems



**Table DQ.9: Observation of bed nets and places for hand washing**  
**Percentage of bed nets in all households interviewed observed by the interviewer, and percentage of places for hand washing observed by the interviewer in all interviewed households, Balochistan Province, Pakistan, 2010**

|                       |           | Percent of bed nets observed by interviewer | Total No. of bed net | Place for hand washing: Observed | Place for hand washing not in dwelling | No permission to see | Other | Total | Number of households interviewed |
|-----------------------|-----------|---------------------------------------------|----------------------|----------------------------------|----------------------------------------|----------------------|-------|-------|----------------------------------|
| Region                | Quetta    | 17.2                                        | 354                  | 69.3                             | 13.6                                   | 8.5                  | 8.3   | 100   | 2,220                            |
|                       | Kalat     | 61.5                                        | 277                  | 64.9                             | 22.7                                   | 10.5                 | 1.2   | 100   | 2,780                            |
|                       | Sibi      | 63.4                                        | 507                  | 62.2                             | 20.5                                   | 11.6                 | 5.5   | 100   | 1,724                            |
|                       | Zhob      | 48.9                                        | 256                  | 78.4                             | 7.9                                    | 5.8                  | 7.2   | 100   | 2,256                            |
|                       | Nasirabad | 57.9                                        | 147                  | 45.7                             | 46.4                                   | 3.9                  | 3.2   | 100   | 1,505                            |
|                       | Makran    | 91.0                                        | 406                  | 74.6                             | 21.8                                   | 1.6                  | 1.5   | 100   | 1,127                            |
| Area                  | Urban     | 47.5                                        | 386                  | 75.8                             | 13.1                                   | 7.2                  | 3.4   | 100   | 2,626                            |
|                       | Rural     | 59.0                                        | 1561                 | 63.7                             | 23.0                                   | 7.8                  | 5.0   | 100   | 8,986                            |
| Wealth index quintile | Poorest   | 65.6                                        | 179                  | 61.9                             | 26.5                                   | 5.8                  | 5.5   | 100   | 2,702                            |
|                       | Second    | 61.2                                        | 213                  | 57.6                             | 28.4                                   | 8.2                  | 5.3   | 100   | 2,437                            |
|                       | Middle    | 55.0                                        | 412                  | 67.5                             | 19.6                                   | 8.6                  | 3.6   | 100   | 2,280                            |
|                       | Fourth    | 56.5                                        | 596                  | 70.6                             | 15.6                                   | 8.7                  | 4.4   | 100   | 2,174                            |
|                       | Richest   | 51.6                                        | 547                  | 77.4                             | 10.7                                   | 7.3                  | 4.3   | 100   | 2,019                            |
| Total                 |           | 56.6                                        | 1947                 | 66.4                             | 20.8                                   | 7.6                  | 4.7   | 100   | 11,612                           |

**Table DQ.10: Observation of women's health cards**  
**Percent distribution of women with a live birth in the last 2 years by presence of a health card, and the percentage of health cards seen by the interviewers, Balochistan Province, Pakistan, 2010**

|                        |           | Woman does not have health card | Woman has health card       |                                 | Missing/DK | Total | Percent of health cards seen by the interviewer (1)/(1+2)*100 | Number of women with a live birth in the last two years |
|------------------------|-----------|---------------------------------|-----------------------------|---------------------------------|------------|-------|---------------------------------------------------------------|---------------------------------------------------------|
|                        |           |                                 | Seen by the interviewer (1) | Not seen by the interviewer (2) |            |       |                                                               |                                                         |
| Region                 | Quetta    | 76.9                            | 1.5                         | 17.3                            | 4.4        | 100.0 | 7.8                                                           | 614                                                     |
|                        | Kalat     | 82.3                            | 1.7                         | 12.1                            | 3.9        | 100.0 | 12.2                                                          | 538                                                     |
|                        | Sibi      | 76.5                            | 1.2                         | 16.2                            | 6.1        | 100.0 | 7.0                                                           | 328                                                     |
|                        | Zhob      | 87.0                            | 1.0                         | 7.0                             | 4.9        | 100.0 | 12.9                                                          | 385                                                     |
|                        | Nasirabad | 69.3                            | 2.3                         | 23.9                            | 4.6        | 100.0 | 8.8                                                           | 348                                                     |
|                        | Makran    | 45.5                            | 0.7                         | 49.7                            | 4.1        | 100.0 | 1.4                                                           | 145                                                     |
| Area                   | Urban     | 65.1                            | 3.0                         | 27.2                            | 4.7        | 100.0 | 10.1                                                          | 593                                                     |
|                        | Rural     | 80.6                            | 1.0                         | 13.9                            | 4.6        | 100.0 | 6.5                                                           | 1,765                                                   |
| Wealth index quintiles | Poorest   | 87.4                            | 0.2                         | 8.5                             | 3.9        | 100.0 | 2.6                                                           | 435                                                     |
|                        | Second    | 83.1                            | 0.2                         | 11.6                            | 5.1        | 100.0 | 1.6                                                           | 526                                                     |
|                        | Middle    | 83.5                            | 2.1                         | 11.5                            | 2.9        | 100.0 | 15.4                                                          | 479                                                     |
|                        | Fourth    | 72.4                            | 2.4                         | 19.7                            | 5.6        | 100.0 | 10.7                                                          | 468                                                     |
|                        | Richest   | 56.0                            | 2.7                         | 35.8                            | 5.6        | 100.0 | 6.9                                                           | 450                                                     |
| Total                  |           | 76.7                            | 1.5                         | 17.2                            | 4.6        | 100.0 | 7.9                                                           | 2,358                                                   |

**Table DQ.11: Observation of under-5s birth certificates**  
**Percent distribution of children under 5 by presence of birth certificates, and percentage of birth calendar seen,**  
**Balochistan Province, Pakistan, 2010**

|             |           | Child does not have birth certificate | Child has birth certificate |                                 | Missing/DK | Total | Percent of birth certificates seen by the interviewer (1)/(1+2)*100 | Number of children under age 5 |
|-------------|-----------|---------------------------------------|-----------------------------|---------------------------------|------------|-------|---------------------------------------------------------------------|--------------------------------|
|             |           |                                       | Seen by the interviewer (1) | Not seen by the interviewer (2) |            |       |                                                                     |                                |
| Region      | Quetta    | 65.7                                  | 5.8                         | 13.8                            | 14.7       | 100.0 | 29.6                                                                | 2,040                          |
|             | Kalat     | 77.2                                  | 5.7                         | 13.1                            | 4.0        | 100.0 | 30.2                                                                | 2,012                          |
|             | Sibi      | 71.3                                  | 2.8                         | 11.6                            | 14.3       | 100.0 | 19.7                                                                | 1,407                          |
|             | Zhob      | 91.4                                  | 0.6                         | 4.4                             | 3.6        | 100.0 | 11.5                                                                | 2,278                          |
|             | Nasirabad | 76.7                                  | 0.3                         | 16.6                            | 6.4        | 100.0 | 1.8                                                                 | 1,295                          |
|             | Makran    | 56.6                                  | 3.8                         | 37.9                            | 1.7        | 100.0 | 9.2                                                                 | 702                            |
| Area        | Urban     | 66.7                                  | 4.5                         | 23.0                            | 5.9        | 100.0 | 16.3                                                                | 2,149                          |
|             | Rural     | 78.3                                  | 2.9                         | 10.5                            | 8.3        | 100.0 | 21.7                                                                | 7,585                          |
| Child's age | 0         | 82.6                                  | 1.7                         | 10.1                            | 5.6        | 100.0 | 14.3                                                                | 1,304                          |
|             | 1         | 76.5                                  | 3.0                         | 13.1                            | 7.3        | 100.0 | 18.8                                                                | 1,446                          |
|             | 2         | 75.7                                  | 2.3                         | 13.0                            | 8.9        | 100.0 | 15.2                                                                | 2,011                          |
|             | 3         | 72.8                                  | 4.3                         | 14.8                            | 8.1        | 100.0 | 22.7                                                                | 2,515                          |
|             | 4         | 74.6                                  | 3.8                         | 13.6                            | 8.0        | 100.0 | 22.0                                                                | 2,458                          |
| Total       |           | 75.7                                  | 3.2                         | 13.2                            | 7.8        | 100.0 | 19.7                                                                | 9,734                          |

**Table DQ.12: Observation of vaccination cards**  
**Percent distribution of children under 5 by presence of a vaccination card, and the percentage of vaccination cards seen by the interviewers, Balochistan Province, Pakistan, 2010**

|             |           | Child does not have vaccination card |                            | Child has vaccination card  |                                 | Missing / DK | Total | Percent of vaccination cards seen by the interviewer (1)/(1+2)*100 | Number of children under age 5 |
|-------------|-----------|--------------------------------------|----------------------------|-----------------------------|---------------------------------|--------------|-------|--------------------------------------------------------------------|--------------------------------|
|             |           | Had vaccination card previously      | Never had vaccination card | Seen by the interviewer (1) | Not seen by the interviewer (2) |              |       |                                                                    |                                |
| Region      | Quetta    | 5.8                                  | 70.8                       | 1.4                         | 21.9                            | 0.1          | 100   | 6.1                                                                | 2,040                          |
|             | Kalat     | 5.7                                  | 68.4                       | 0.6                         | 25.0                            | 0.5          | 100   | 2.5                                                                | 2,012                          |
|             | Sibi      | 1.8                                  | 75.6                       | 1.5                         | 20.9                            | 0.6          | 100   | 6.7                                                                | 1,407                          |
|             | Zhob      | 2.2                                  | 87.1                       | 0.4                         | 9.8                             | 0.5          | 100   | 3.9                                                                | 2,278                          |
|             | Nasirabad | 5.3                                  | 59.2                       | 1.3                         | 33.5                            | 0.6          | 100   | 3.8                                                                | 1,295                          |
|             | Makran    | 29.5                                 | 37.3                       | 0.0                         | 33.0                            | 0.1          | 100   | .0                                                                 | 702                            |
| Area        | Urban     | 7.5                                  | 51.3                       | 2.2                         | 38.8                            | 0.2          | 100   | 5.3                                                                | 2,149                          |
|             | Rural     | 5.6                                  | 76.4                       | 0.6                         | 17.1                            | 0.5          | 100   | 3.1                                                                | 7,585                          |
| Child's age | 0         | 3.6                                  | 77.4                       | 3.1                         | 15.8                            | 0.3          | 100   | 16.3                                                               | 1,304                          |
|             | 1         | 6.7                                  | 68.7                       | 2.3                         | 21.8                            | 0.5          | 100   | 9.5                                                                | 1,446                          |
|             | 2         | 4.9                                  | 71.1                       | 0.3                         | 23.5                            | 0.3          | 100   | 1.3                                                                | 2,011                          |
|             | 3         | 6.8                                  | 69.1                       | 0.3                         | 23.6                            | 0.4          | 100   | 1.2                                                                | 2,515                          |
|             | 4         | 7.0                                  | 70.3                       | 0.1                         | 22.2                            | 0.5          | 100   | .5                                                                 | 2,458                          |
| Total       |           | 6.0                                  | 70.9                       | 0.9                         | 21.9                            | 0.4          | 100   | 4.0                                                                | 9,734                          |

**Table DQ.13: Presence of mother in the household and the person interviewed for the under-5 questionnaire**  
**Distribution of children under five by whether the mother lives in the same household, and the person interviewed for**  
**the under-5 questionnaire, Balochistan Province, Pakistan, 2010**

|     |       | Mother in the household |                    | Mother not in the household    |                              | Total | Number of children under 5 |
|-----|-------|-------------------------|--------------------|--------------------------------|------------------------------|-------|----------------------------|
|     |       | Mother interviewed      | Father interviewed | Other adult female interviewed | Other adult male interviewed |       |                            |
| Age | 0     | 99.6                    | 0.0                | 0.4                            | 0.0                          | 100.0 | 1,468                      |
|     | 1     | 99.9                    | 0.1                | 0.0                            | 0.0                          | 100.0 | 1,624                      |
|     | 2     | 99.6                    | 0.1                | 0.3                            | 0.0                          | 100.0 | 2,146                      |
|     | 3     | 99.6                    | 0.1                | 0.3                            | 0.0                          | 100.0 | 2,701                      |
|     | 4     | 98.6                    | 0.1                | 1.3                            | 0.0                          | 100.0 | 2,679                      |
|     | Total | 99.4                    | 0.1                | 0.5                            | 0.0                          | 100.0 | 10,618                     |

**Table DQ.15: School attendance by single age**

**Distribution of household population age 5-24 by educational level and grade attended in the current (or most recent) school year, Balochistan Province, Pakistan, 2010**

| Age |  | Not attending school | Pre-school | Primary |      |      |      | Middle |     |     |     | Matric | Higher | Madrassa | DK  | Total | Number of household members |
|-----|--|----------------------|------------|---------|------|------|------|--------|-----|-----|-----|--------|--------|----------|-----|-------|-----------------------------|
|     |  |                      |            | 1       | 2    | 3    | 4    | 5      | 6   | 7   | 8   |        |        |          |     |       |                             |
| 4   |  | 0.0                  | 0.0        | 0.0     | 0.0  | 0.0  | 0.0  | 0.0    | 0.0 | 0.0 | 0.0 | 0.0    | 0.0    | 0.0      | 0.0 | 100.0 | 31                          |
| 5   |  | 82.4                 | 8.7        | 7.1     | 1.3  | 0.2  | 0.2  | 0.1    | 0.0 | 0.0 | 0.0 | 0.1    | 0.0    | 0.0      | 0.0 | 100.0 | 1,192                       |
| 6   |  | 67.7                 | 14.4       | 9.9     | 5.0  | 1.8  | 0.2  | 0.6    | 0.1 | 0.0 | 0.0 | 0.0    | 0.0    | 0.2      | 0.0 | 100.0 | 3,110                       |
| 7   |  | 56.0                 | 10.5       | 8.8     | 15.0 | 6.2  | 1.5  | 1.2    | 0.5 | 0.0 | 0.0 | 0.0    | 0.0    | 0.1      | 0.1 | 100.0 | 2,665                       |
| 8   |  | 47.5                 | 6.6        | 6.7     | 17.9 | 12.5 | 4.3  | 2.8    | 1.0 | 0.2 | 0.1 | 0.0    | 0.1    | 0.3      | 0.1 | 100.0 | 3,362                       |
| 9   |  | 44.9                 | 3.2        | 3.4     | 12.1 | 21.0 | 8.0  | 4.9    | 1.3 | 0.8 | 0.1 | 0.1    | 0.0    | 0.1      | 0.0 | 100.0 | 2,167                       |
| 10  |  | 46.0                 | 2.4        | 1.7     | 8.1  | 16.7 | 10.9 | 8.0    | 2.7 | 1.8 | 0.9 | 0.5    | 0.0    | 0.2      | 0.0 | 100.0 | 3,320                       |
| 11  |  | 44.4                 | 2.0        | 1.5     | 4.0  | 9.3  | 14.5 | 10.6   | 6.9 | 3.4 | 1.8 | 1.2    | 0.1    | 0.2      | 0.0 | 100.0 | 1,681                       |
| 12  |  | 45.1                 | 0.8        | 0.6     | 3.0  | 5.9  | 10.9 | 13.9   | 8.0 | 5.3 | 4.0 | 2.3    | 0.0    | 0.1      | 0.0 | 100.0 | 3,144                       |
| 13  |  | 49.6                 | 0.6        | 0.7     | 0.9  | 3.4  | 6.5  | 9.8    | 9.3 | 6.7 | 6.8 | 5.3    | 0.3    | 0.1      | 0.1 | 100.0 | 1,993                       |
| 14  |  | 56.5                 | 0.1        | 0.2     | 0.4  | 1.1  | 2.4  | 5.0    | 6.4 | 9.1 | 8.4 | 9.3    | 0.9    | 0.2      | 0.1 | 100.0 | 2,511                       |
| 15  |  | 61.6                 | 0.1        | 0.1     | 0.4  | 0.9  | 1.3  | 3.0    | 4.6 | 5.1 | 7.6 | 13.1   | 1.8    | 0.3      | 0.0 | 100.0 | 2,535                       |
| 16  |  | 66.2                 | 0.1        | 0.1     | 0.1  | 0.2  | 0.7  | 1.9    | 1.9 | 3.2 | 6.1 | 15.6   | 3.8    | 0.2      | 0.0 | 100.0 | 2,285                       |
| 17  |  | 67.2                 | 0.1        | 0.0     | 0.1  | 0.6  | 0.2  | 1.1    | 1.2 | 3.3 | 3.6 | 14.3   | 7.8    | 0.3      | 0.0 | 100.0 | 1,584                       |
| 18  |  | 78.7                 | 0.1        | 0.0     | 0.1  | 0.2  | 0.2  | 0.7    | 0.6 | 1.1 | 2.5 | 9.4    | 6.4    | 0.2      | 0.0 | 100.0 | 2,936                       |
| 19  |  | 77.3                 | 0.0        | 0.1     | 0.1  | 0.3  | 0.4  | 0.5    | 0.5 | 0.6 | 2.6 | 8.2    | 9.5    | 0.0      | 0.0 | 100.0 | 1,320                       |
| 20  |  | 87.0                 | 0.0        | 0.0     | 0.0  | 0.1  | 0.1  | 0.2    | 0.1 | 0.3 | 1.1 | 2.9    | 7.9    | 0.2      | 0.0 | 100.0 | 2,837                       |
| 21  |  | 87.0                 | 0.0        | 0.0     | 0.0  | 0.2  | 0.2  | 0.3    | 0.3 | 0.5 | 0.1 | 4.1    | 7.4    | 0.0      | 0.0 | 100.0 | 831                         |
| 22  |  | 90.9                 | 0.1        | 0.0     | 0.0  | 0.0  | 0.2  | 0.0    | 0.0 | 0.2 | 1.0 | 1.9    | 5.5    | 0.1      | 0.0 | 100.0 | 1,554                       |
| 23  |  | 92.5                 | 0.0        | 0.0     | 0.0  | 0.0  | 0.2  | 0.1    | 0.1 | 0.2 | 0.8 | 1.1    | 4.8    | 0.1      | 0.0 | 100.0 | 1,014                       |
| 24  |  | 94.5                 | 0.0        | 0.1     | 0.1  | 0.0  | 0.1  | 0.0    | 0.4 | 0.1 | 0.8 | 1.5    | 2.1    | 0.2      | 0.0 | 100.0 | 1,092                       |
| 25  |  | 100.0                | 0.0        | 0.0     | 0.0  | 0.0  | 0.0  | 0.0    | 0.0 | 0.0 | 0.0 | 0.0    | 0.0    | 0.0      | 0.0 | 100.0 | 1,996                       |
| 26  |  | 100.0                | 0.0        | 0.0     | 0.0  | 0.0  | 0.0  | 0.0    | 0.0 | 0.0 | 0.0 | 0.0    | 0.0    | 0.0      | 0.0 | 100.0 | 2                           |
| 43  |  | .0                   | 0.0        | 0.0     | 0.0  | 0.0  | 0.0  | 0.0    | 0.0 | 0.0 | 0.0 | 0.0    | 0.0    | 0.0      | 0.0 | 100.0 | 2                           |
| 63  |  | 100.0                | 0.0        | 0.0     | 0.0  | 0.0  | 0.0  | 0.0    | 0.0 | 0.0 | 0.0 | 0.0    | 0.0    | 0.0      | 0.0 | 100.0 | 1                           |

**Table DQ.16: Sex ratio at birth among children ever born and living**  
**Sex ratio (number of males per 100 females) among children ever born (at birth), children living, and deceased children,**  
**by age of ever married women, Balochistan Province, Pakistan, 2010**

| Age   | Children Ever Born       |                               |           | Children Living       |                            |           | Children Deceased       |                              |           | Number of women |
|-------|--------------------------|-------------------------------|-----------|-----------------------|----------------------------|-----------|-------------------------|------------------------------|-----------|-----------------|
|       | Number of sons ever born | Number of daughters ever born | Sex ratio | Number of sons living | Number of daughters living | Sex ratio | Number of deceased sons | Number of deceased daughters | Sex ratio |                 |
| 15-19 | 64                       | 55                            | 1.16      | 58                    | 49                         | 1.18      | 6                       | 6                            | 1.00      | 4,113           |
| 20-24 | 941                      | 760                           | 1.24      | 875                   | 697                        | 1.26      | 66                      | 63                           | 1.05      | 2,976           |
| 25-29 | 3,642                    | 2,996                         | 1.22      | 3,411                 | 2,694                      | 1.27      | 231                     | 302                          | .76       | 3,156           |
| 30-34 | 5,157                    | 4,083                         | 1.26      | 4,791                 | 3,680                      | 1.30      | 366                     | 403                          | .91       | 2,373           |
| 35-39 | 5,868                    | 4,902                         | 1.20      | 5,423                 | 4,389                      | 1.24      | 445                     | 513                          | .87       | 2,185           |
| 40-44 | 4,968                    | 4,236                         | 1.17      | 4,507                 | 3,774                      | 1.19      | 461                     | 462                          | 1.00      | 1,575           |
| 45-49 | 4,534                    | 3,760                         | 1.21      | 4,123                 | 3,368                      | 1.22      | 411                     | 392                          | 1.05      | 1,354           |
| Total | 25,174                   | 20,792                        | 1.21      | 23,188                | 18,651                     | 1.24      | 1,986                   | 2,141                        | .95       | 17,732          |

Appendix E - MICS4 Indicators- Balochistan, Pakistan: Numerators and Denominators

| MICS4 INDICATOR     | Module                    | Numerator | Denominator                               | MDG     |
|---------------------|---------------------------|-----------|-------------------------------------------|---------|
| <b>1. MORTALITY</b> |                           |           |                                           |         |
| 1.1                 | Under-five mortality rate | CM - BH   | Probability of dying by exact age 5 years | MDG 4.1 |
| 1.2                 | Infant mortality rate     | CM - BH   | Probability of dying by exact age 1 year  | MDG 4.2 |



| MICS4 INDICATOR     | Module                                            | Numerator | Denominator                                                                                                                                     | MDG                                                                         |
|---------------------|---------------------------------------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| <b>2. NUTRITION</b> |                                                   |           |                                                                                                                                                 |                                                                             |
| 2.4                 | Children ever breastfed                           | MN        | Number of women with a live birth in the 2 years preceding the survey who breastfed the child at any time                                       | Total number of women with a live birth in the 2 years preceding the survey |
| 2.6                 | Exclusive breastfeeding under 6 months            | BF        | Number of infants under 6 months of age who are exclusively breastfed <sup>12</sup>                                                             | Total number of infants under 6 months of age                               |
| 2.7                 | Continued breastfeeding at 1 year                 | BF        | Number of children age 12-15 months who are currently breastfeeding                                                                             | Total number of children age 12-15 months                                   |
| 2.8                 | Continued breastfeeding at 2 years                | BF        | Number of children age 20-23 months who are currently breastfeeding                                                                             | Total number of children age 20-23 months                                   |
| 2.9                 | Predominant breastfeeding under 6 months          | BF        | Number of infants under 6 months of age who received breast milk as the predominant source of nourishment <sup>13</sup> during the previous day | Total number of infants under 6 months of age                               |
| 2.10                | Duration of breastfeeding                         | BF        | The age in months when 50 percent of children age 0-35 months did not receive breast milk during the previous day                               |                                                                             |
| 2.11                | Bottle feeding                                    | BF        | Number of children age 0-23 months who were fed with a bottle during the previous day                                                           | Total number of children age 0-23 months                                    |
| 2.12                | Introduction of solid, semi-solid or soft foods   | BF        | Number of infants age 6-8 months who received solid, semi-solid or soft foods during the previous day                                           | Total number of infants age 6-8 months                                      |
| 2.14                | Age-appropriate breastfeeding                     | BF        | Number of children age 0-23 months appropriately fed <sup>14</sup> during the previous day                                                      | Total number of children age 0-23 months                                    |
| 2.15                | Milk feeding frequency for non-breastfed children | BF        | Number of non-breastfed children age 6-23 months who received at least 2 milk feedings during the previous day                                  | Total number of non-breastfed children age 6-23 months                      |
| 2.16                | Iodized salt consumption                          | SI        | Number of households with salt testing 15 parts per million or more of iodide/iodate                                                            | Total number of households in which salt was tested or with no salt         |

<sup>12</sup> Infants receiving breast milk, and not receiving any other fluids or foods, with the exception of oral rehydration solution, vitamins, mineral supplements and medicines

<sup>13</sup> Infants who receive breast milk and certain fluids (water and water-based drinks, fruit juice, ritual fluids, oral rehydration solution, drops, vitamins, minerals, and medicines), but do not receive anything else (in particular, non-human milk and food-based fluids)

<sup>14</sup> Infants age 0-5 who are exclusively breastfed, and children age 6-23 months who are breastfed and ate solid, semi-solid or soft foods

| MICS4 INDICATOR        | Module                                                                  | Numerator | Denominator                                                                                                                                                                                                           | MDG                                                                                         |         |
|------------------------|-------------------------------------------------------------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------|
| <b>3. CHILD HEALTH</b> |                                                                         |           |                                                                                                                                                                                                                       |                                                                                             |         |
| 3.1                    | Tuberculosis immunization coverage                                      | IM        | Number of children age 12-23 months who received BCG vaccine before their first birthday                                                                                                                              | Total number of children age 12-23 months                                                   |         |
| 3.2                    | Polio immunization coverage                                             | IM        | Number of children age 12-23 months who received OPV3 vaccine before their first birthday                                                                                                                             | Total number of children age 12-23 months                                                   |         |
| 3.3                    | Immunization coverage for diphtheria, pertussis and tetanus (DPT)       | IM        | Number of children age 12-23 months who received DPT3 vaccine before their first birthday                                                                                                                             | Total number of children age 12-23 months                                                   |         |
| 3.4                    | Measles immunization coverage                                           | IM        | Number of children age 12-23 months who received measles vaccine before their first birthday                                                                                                                          | Total number of children age 12-23 months                                                   | MDG 4.3 |
| 3.5                    | Hepatitis B immunization coverage                                       | IM        | Number of children age 12-23 months who received the third dose of Hepatitis B vaccine before their first birthday                                                                                                    | Total number of children age 12-23 months                                                   |         |
| 3.7                    | Neonatal tetanus protection                                             | MN        | Number of women age 15-49 years with a live birth in the 2 years preceding the survey who were given at least two doses of tetanus toxoid vaccine within the appropriate interval <sup>15</sup> prior to giving birth | Total number of women age 15-49 years with a live birth in the 2 years preceding the survey |         |
| 3.8                    | Oral rehydration therapy with continued feeding                         | CA        | Number of children under age 5 with diarrhoea in the previous 2 weeks who received ORT (ORS packet or recommended homemade fluid or increased fluids) and continued feeding during the episode of diarrhoea           | Total number of children under age 5 with diarrhoea in the previous 2 weeks                 |         |
| 3.9                    | Care-seeking for suspected pneumonia                                    | CA        | Number of children under age 5 with suspected pneumonia in the previous 2 weeks who were taken to an appropriate health provider                                                                                      | Total number of children under age 5 with suspected pneumonia in the previous 2 weeks       |         |
| 3.11                   | Solid fuels                                                             | HC        | Number of household members in households that use solid fuels as the primary source of domestic energy to cook                                                                                                       | Total number of household members                                                           |         |
| 3.12                   | Household availability of insecticide-treated nets (ITNs) <sup>16</sup> | TN        | Number of households with at least one insecticide treated net (ITN)                                                                                                                                                  | Total number of households                                                                  |         |
| 3.14                   | Children under age 5 sleeping under any type of mosquito net            | TN        | Number of children under age 5 who slept under any type of mosquito net the previous night                                                                                                                            | Total number of children under age 5                                                        |         |
| 3.15                   | Children under age 5 sleeping under insecticide-treated nets (ITNs)     | TN        | Number of children under age 5 who slept under an insecticide-treated mosquito net (ITN) the previous night                                                                                                           | Total number of children under age 5                                                        | MDG 6.7 |

<sup>15</sup> See MICS4 manual for a detailed description

<sup>16</sup> An ITN is (a) a factory treated net which does not require any treatment, (b) a pretreated net obtained within the past 12 months, or (c) a net that has been soaked with insecticide within the past 12 months

| MICS4 INDICATOR |                                                               | Module | Numerator                                                                                                                                                                                                                      | Denominator                                                                                                      | MDG |
|-----------------|---------------------------------------------------------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-----|
| 3.19            | Pregnant women sleeping under insecticide-treated nets (ITNs) | TN     | Number of pregnant women who slept under an insecticide-treated net (ITN) the previous night                                                                                                                                   | Total number of pregnant women                                                                                   |     |
| 3.20            | Intermittent preventive treatment for malaria                 | MN     | Number of ever married women age 15-49 years who received at least 2 doses of SP/Fansidar to prevent malaria during antenatal care visits for their last pregnancy leading to a live birth in the 2 years preceding the survey | Total number of ever married women age 15-49 years who have had a live birth in the 2 years preceding the survey |     |

| MICS4 INDICATOR                | Module                                 | Numerator | Denominator                                                                                         | MDG                                                                                     |         |
|--------------------------------|----------------------------------------|-----------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|---------|
| <b>4. WATER AND SANITATION</b> |                                        |           |                                                                                                     |                                                                                         |         |
| 4.1                            | Use of improved drinking water sources | WS        | Number of household members using improved sources of drinking water                                | Total number of household members                                                       | MDG 7.8 |
| 4.2                            | Water treatment                        | WS        | Number of household members using unimproved drinking water who use an appropriate treatment method | Total number of household members in households using unimproved drinking water sources |         |
| 4.3                            | Use of improved sanitation             | WS        | Number of household members using improved sanitation facilities which are not shared               | Total number of household members                                                       | MDG 7.9 |
| 4.4                            | Safe disposal of child's faeces        | CA        | Number of children age 0-2 years whose (last) stools were disposed of safely                        | Total number of children age 0-2 years                                                  |         |
| 4.5                            | Place for handwashing                  | HW        | Number of households with a designated place for hand washing where water and soap are present      | Total number of households                                                              |         |
| 4.6                            | Availability of soap                   | HW        | Number of households with soap anywhere in the dwelling                                             | Total number of households                                                              |         |

| <b>5. REPRODUCTIVE HEALTH</b> |                               |         |                                                                                                                                                                                                          |                                                                                                          |         |
|-------------------------------|-------------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|---------|
| 5.2                           | Early childbearing            | CM - BH | Number of women age 20-24 years who had at least one live birth before age 18                                                                                                                            | Total number of women age 20-24 years                                                                    |         |
| 5.3                           | Contraceptive prevalence rate | CP      | Number of women age 15-49 years currently married who are using (or whose husband is using) a (modern or traditional) contraceptive method                                                               | Total number of women age 15-49 years who are currently married                                          | MDG 5.3 |
| 5.5a<br>5.5b                  | Antenatal care coverage       | MN      | Number of ever married women age 15-49 years who were attended during pregnancy in the 2 years preceding the survey<br>(a) at least once by skilled personnel<br>(b) at least four times by any provider | Total number of ever married women age 15-49 years with a live birth in the 2 years preceding the survey | MDG 5.5 |
| 5.7                           | Skilled attendant at delivery | MN      | Number of ever married women age 15-49 years with a live birth in the 2 years preceding the survey who were attended during childbirth by skilled health personnel                                       | Total number of ever married women age 15-49 years with a live birth in the 2 years preceding the survey | MDG 5.2 |
| 5.8                           | Institutional deliveries      | MN      | Number of ever married women age 15-49 years with a live birth in the 2 years preceding the survey who delivered in a health facility                                                                    | Total number of ever married women age 15-49 years with a live birth in the 2 years preceding the survey |         |

| MICS4 INDICATOR             | Module                                  | Numerator | Denominator                                                                                                                                                  | MDG                                       |
|-----------------------------|-----------------------------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <b>6. CHILD DEVELOPMENT</b> |                                         |           |                                                                                                                                                              |                                           |
| 6.1                         | Support for learning                    | EC        | Number of children age 36-59 months with whom an adult has engaged in four or more activities to promote learning and school readiness in the past 3 days    | Total number of children age 36-59 months |
| 6.2                         | Father's support for learning           | EC        | Number of children age 36-59 months whose father has engaged in one or more activities to promote learning and school readiness in the past 3 days           | Total number of children age 36-59 months |
| 6.3                         | Learning materials: children's books    | EC        | Number of children under age 5 who have three or more children's books                                                                                       | Total number of children under age 5      |
| 6.4                         | Learning materials: playthings          | EC        | Number of children under age 5 with two or more playthings                                                                                                   | Total number of children under age 5      |
| 6.5                         | Inadequate care                         | EC        | Number of children under age 5 left alone or in the care of another child younger than 10 years of age for more than one hour at least once in the past week | Total number of children under age 5      |
| 6.6                         | Early child development Index           | EC        | Number of children age 36-59 months who are developmentally on track in literacy-numeracy, physical, social-emotional, and learning domains                  | Total number of children age 36-59 months |
| 6.7                         | Attendance to early childhood education | EC        | Number of children age 36-59 months who are attending an early childhood education programme                                                                 | Total number of children age 36-59 months |

| MICS4 INDICATOR                  | Module                                           | Numerator | Denominator                                                                                                                                                                 | MDG                                                                                                          |         |
|----------------------------------|--------------------------------------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|---------|
| <b>7. LITERACY AND EDUCATION</b> |                                                  |           |                                                                                                                                                                             |                                                                                                              |         |
| 7.1                              | Literacy rate among young women <sup>[M]</sup>   | WB        | Number of women age 15-24 years who are able to read a short simple statement about everyday life or who attended secondary or higher education                             | Total number of women age 15-24 years                                                                        | MDG 2.3 |
| 7.2                              | School readiness                                 | ED        | Number of children in first grade of primary school who attended pre-school during the previous school year                                                                 | Total number of children attending the first grade of primary school                                         |         |
| 7.3                              | Net intake rate in primary education             | ED        | Number of children of school-entry age who enter the first grade of primary school                                                                                          | Total number of children of school-entry age                                                                 |         |
| 7.4                              | Primary school net attendance ratio (adjusted)   | ED        | Number of children of primary school age currently attending primary or secondary school                                                                                    | Total number of children of primary school age                                                               | MDG 2.1 |
| 7.5                              | Secondary school net attendance ratio (adjusted) | ED        | Number of children of secondary school age currently attending secondary school or higher                                                                                   | Total number of children of secondary-school age                                                             |         |
| 7.6                              | Children reaching last grade of primary          | ED        | Proportion of children entering the first grade of primary school who eventually reach last grade                                                                           |                                                                                                              | MDG 2.2 |
| 7.7                              | Primary completion rate                          | ED        | Number of children (of any age) attending the last grade of primary school (excluding repeaters)                                                                            | Total number of children of primary school completion age (age appropriate to final grade of primary school) |         |
| 7.8                              | Transition rate to secondary school              | ED        | Number of children attending the last grade of primary school during the previous school year who are in the first grade of secondary school during the current school year | Total number of children who are attending the first grade of secondary school                               |         |
| 7.9                              | Gender parity index (primary school)             | ED        | Primary school net attendance ratio (adjusted) for girls                                                                                                                    | Primary school net attendance ratio (adjusted) for boys                                                      | MDG 3.1 |
| 7.10                             | Gender parity index (secondary school)           | ED        | Secondary school net attendance ratio (adjusted) for girls                                                                                                                  | Secondary school net attendance ratio (adjusted) for boys                                                    | MDG 3.1 |

| MICS4 INDICATOR            | Module                                     | Numerator | Denominator                                                                                                                                                                                                                                                                                     | MDG                                                              |  |
|----------------------------|--------------------------------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|--|
| <b>8. CHILD PROTECTION</b> |                                            |           |                                                                                                                                                                                                                                                                                                 |                                                                  |  |
| 8.1                        | Birth registration                         | BR        | Number of children under age 5 whose births are reported registered                                                                                                                                                                                                                             | Total number of children under age 5                             |  |
| 8.2                        | Child labour                               | CL        | Number of children age 5-14 years who are involved in child labour                                                                                                                                                                                                                              | Total number of children age 5-14 years                          |  |
| 8.3                        | School attendance among child labourers    | ED - CL   | Number of children age 5-14 years who are involved in child labour and are currently attending school                                                                                                                                                                                           | Total number of children age 5-14 years involved in child labour |  |
| 8.4                        | Child labour among students                | ED - CL   | Number of children age 5-14 years who are involved in child labour and are currently attending school                                                                                                                                                                                           | Total number of children age 5-14 years attending school         |  |
| 8.14                       | Attitudes towards domestic violence<br>(M) | DV        | Number of women who state that a husband/partner is justified in hitting or beating his wife in at least one of the following circumstances: (1) she goes out without telling him, (2) she neglects the children, (3) she argues with him, (4) she refuses sex with him, (5) she burns the food | Total number of women age 15-49 years                            |  |

| MICS4 INDICATOR                                  | Module                                                            | Numerator | Denominator                                                                                                                      | MDG                                                         |  |
|--------------------------------------------------|-------------------------------------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|--|
| <b>9. HIV/AIDS, SEXUAL BEHAVIOUR AND ORPHANS</b> |                                                                   |           |                                                                                                                                  |                                                             |  |
| 9.3                                              | Knowledge of mother-to-child transmission of HIV <sup>[M]</sup>   | HA        | Number of women age 15-49 years who correctly identify all three means <sup>17</sup> of mother-to-child transmission of HIV      | Total number of women age 15-49 years                       |  |
| 9.4                                              | Accepting attitudes towards people living with HIV <sup>[M]</sup> | HA        | Number of women age 15-49 years expressing accepting attitudes on all four questions <sup>18</sup> toward people living with HIV | Total number of women age 15-49 years who have heard of HIV |  |



# **Appendix-F      Questionnaires**

# QUESTIONNAIRE

**District Based  
Multiple Indicators Cluster Survey  
Balochistan**

|                         |  |  |                 |  |
|-------------------------|--|--|-----------------|--|
|                         |  |  |                 |  |
| <b>Questionnaire No</b> |  |  | <b>District</b> |  |

**MICS Secretariat  
Planning & Development Department  
Government of Balochistan**

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|                                                                                      |                                                                                                                                                                                |
|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| HH1. Cluster number:                    ___ ___ ___                                  | HH2. Household number:                    ___ ___ ___                                                                                                                          |
| HH1A. Name of District _____ District Code ___ ___                                   |                                                                                                                                                                                |
| HH3. Interviewer name and number:<br>Name _____ ___ ___                              | HH4. Supervisor name and number:<br>Name _____ ___ ___                                                                                                                         |
| HH5. Day / Month / Year of interview:                    ___ ___ / ___ ___ / ___ ___ |                                                                                                                                                                                |
| HH6. Area:<br>Urban..... 1<br>Rural..... 2                                           | HH7. Region/Divisions:<br><i>Quetta 01</i> .....01<br><i>Kalat 02</i> .....02<br><i>Sibi 03</i> .....03<br><i>Zhob 04</i> .....04<br>Nasirabad 05 ..... 05<br>Makran 10.....10 |

We are from Planning & Development Department, Government of Balochistan. We are working on a project concerned with family health and education. I would like to talk to you about these subjects. The interview will take about minutes. All the information we obtain will remain strictly confidential and your answers will never be shared with anyone other than our project team.

MAY I START NOW?

- Yes, permission is given ⇒ Go to HH18 to record the time and then begin the interview.
- No, permission is not given ⇒ Complete HH9. Discuss this result with your supervisor.

|                                                                                                                                                                                              |                                                                                                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| <i>After all questionnaires for the household have been completed, fill in the following information:</i>                                                                                    |                                                                                                        |
| HH8. Name of head of household: _____                                                                                                                                                        |                                                                                                        |
| HH9. Result of household interview:<br>.....Completed ..... 1<br>Not at home..... 2<br>Refused..... 3<br>Household not found / destroyed / vacant..... 4<br>Other ( <i>specify</i> ) _____ 6 | HH10. Respondent to household questionnaire:<br>Name: _____<br>Line Number:                    ___ ___ |
| HH11. Total number of household members:                    ___ ___                                                                                                                          |                                                                                                        |
| HH12. Number of women age 15-49 years(ever married):                    ___ ___                                                                                                              | HH13. Number of woman's questionnaires completed:                    ___ ___                           |
| HH14. Number of children under age 5:                    ___ ___                                                                                                                             | HH15. Number of under-5 questionnaires completed:                    ___ ___                           |
| HH16. Field edited by (Name and number):<br>Name _____ ___ ___                                                                                                                               | HH17. Data entry clerk (Name and number):<br>Name _____ ___ ___                                        |

HH18.  
Record the time:  
  
Hour .....  
  
Minutes.....

FIRST, PLEASE TELL ME THE NAME OF EACH PERSON WHO USUALLY LIVES HERE, STARTING WITH THE HEAD OF THE HOUSEHOLD.  
*List the head of the household in line 01. List all household members (HL2), their relationship to the household head (HL3), and their sex (HL4)*  
 Then ask: ARE THERE ANY OTHERS WHO LIVE HERE, EVEN IF THEY ARE NOT AT HOME NOW?  
*If yes, complete listing for questions HL2-HL4. Then, ask questions starting with HL5 for each person at a time. Ask questions HL6A and HL6B only from/for household members who are over 10 years of age*  
 USE AN ADDITIONAL QUESTIONNAIRE IF ALL ROWS IN THE HOUSEHOLD LISTING FORM HAVE BEEN USED.

|  |  |                            |                              |                                 |                                  |                                    |
|--|--|----------------------------|------------------------------|---------------------------------|----------------------------------|------------------------------------|
|  |  | <i>For women age 15-49</i> | <i>For children age 5-14</i> | <i>For children under age 5</i> | <i>For all household members</i> | <i>For children age 0-17 years</i> |
|--|--|----------------------------|------------------------------|---------------------------------|----------------------------------|------------------------------------|

| HL1.<br>Line number | HL2.<br>Name | HL3.<br>WHAT IS THE RELATIONSHIP OF (name) TO THE HEAD OF HOUSEHOLD? | HL4<br>IS (name) MALE OR FEMALE? | HL5.<br>WHAT IS (name)'S DATE OF BIRTH? |       | HL6.<br>HOW OLD IS (name)?                                           | HL6A<br>CAN (NAME) READ WITH UNDERSTANDING IN ANY ONE OF THE LANGUAGES?                                                                               | HL6B<br>CAN (NAME) WRITE WITH UNDERSTANDING IN ANY ONE OF THE LANGUAGES?                                                                                  | HL7.<br>Circle line number if woman is age 15-49 | HL8.<br>WHO IS THE MOTHER OR PRIMARY CARETAKER OF THIS CHILD? | HL9.<br>WHO IS THE MOTHER OR PRIMARY CARETAKER OF THIS CHILD? | HL10.<br>DID (name) STAY HERE LAST NIGHT? | HL11.<br>IS (NAME)'S NATURAL MOTHER ALIVE? | HL12<br>DOES (NAME)'S NATURAL MOTHER LIVE IN THIS HOUSEHOLD? | HL13<br>IS (NAME)'S NATURAL FATHER ALIVE?       | HL14<br>DOES (NAME)'S NATURAL FATHER LIVE IN THIS HOUSEHOLD? |
|---------------------|--------------|----------------------------------------------------------------------|----------------------------------|-----------------------------------------|-------|----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|-------------------------------------------|--------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------------------|
|                     |              |                                                                      | 1 Male<br>2 FEMALE               | 98 DK    9998 DK                        |       | <i>Record in completed years. If age is 95 or above, record '95'</i> | URDU.....01<br>ENGLISH..02<br>PASHTU..... 03<br>BALOCHI....04<br>BRAHVI .....05<br>SINDHI.....10<br>CAN NOT READ.....11<br>OTHER (SPE)66<br>DK.....88 | URDU.....01<br>ENGLISH.....02<br>PASHTU.....03<br>BALOCHI....04<br>BRAHVI.....05<br>SINDHI.....10<br>CAN NOT WRITE.....11<br>OTHER (SPE.) 66<br>DK.....88 |                                                  | <i>Record line number of mother/ caretaker</i>                | <i>Record line number of mother/ caretaker</i>                | 1 Yes<br>2 No                             | 1 YES<br>2 NO<br>HL13<br>8 DK<br>HL13      | <i>RECORD LINE NUMBER OF MOTHER OR 00 FOR "No"</i>           | 1 YES<br>2 NO<br>NEXT LINE<br>8 DK<br>NEXT LINE | <i>RECORD LINE NUMBER OF FATHER OR 00 FOR "No"</i>           |
| Line                | Name         | Relation*                                                            | M   F                            | Month                                   | Year  | Age                                                                  | Write code                                                                                                                                            | Write code                                                                                                                                                | 15-49                                            | Mother                                                        | Mother                                                        | Y   N                                     | Y   N   DK                                 | Mother                                                       | Y   N   DK                                      | Father                                                       |
| 01                  |              | 0 1                                                                  | 1   2                            | ___                                     | _____ | __ __                                                                |                                                                                                                                                       |                                                                                                                                                           | 01                                               | __ __                                                         | __ __                                                         | 1   2                                     | 1   2   8                                  | __ __                                                        | 1   2   8                                       | __ __                                                        |
| 02                  |              | __ __                                                                | 1   2                            | ___                                     | _____ | __ __                                                                |                                                                                                                                                       |                                                                                                                                                           | 02                                               | __ __                                                         | __ __                                                         | 1   2                                     | 1   2   8                                  | __ __                                                        | 1   2   8                                       | __ __                                                        |
| 03                  |              | __ __                                                                | 1   2                            | ___                                     | _____ | __ __                                                                |                                                                                                                                                       |                                                                                                                                                           | 03                                               | __ __                                                         | __ __                                                         | 1   2                                     | 1   2   8                                  | __ __                                                        | 1   2   8                                       | __ __                                                        |
| 04                  |              | __ __                                                                | 1   2                            | ___                                     | _____ | __ __                                                                |                                                                                                                                                       |                                                                                                                                                           | 04                                               | __ __                                                         | __ __                                                         | 1   2                                     | 1   2   8                                  | __ __                                                        | 1   2   8                                       | __ __                                                        |
| 05                  |              | __ __                                                                | 1   2                            | ___                                     | _____ | __ __                                                                |                                                                                                                                                       |                                                                                                                                                           | 05                                               | __ __                                                         | __ __                                                         | 1   2                                     | 1   2   8                                  | __ __                                                        | 1   2   8                                       | __ __                                                        |

| HL1.<br>Line<br>number | HL2.<br>Name | HL3.<br>WHAT IS<br>THE<br>RELATION<br>-SHIP OF<br>(name)<br>TO THE<br>HEAD OF<br>HOUSE-<br>HOLD? | HL4<br>Is (name)<br>MALE OR<br>FEMALE? | HL5.<br>WHAT IS (name)'S<br>DATE OF BIRTH? |       | HL6.<br>HOW OLD IS<br>(name)? | HL6A<br>CAN (NAME)<br>READ WITH<br>UNDERSTANDING IN<br>ANY ONE OF THE<br>LANGUAGES?<br>URDU.....01<br>ENGLISH..02<br>PASHTU..... 03<br>BALOCHI....04<br>BRAHVI .....05<br>SINDHI.....10<br>CAN NOT<br>READ.....11<br>OTHER (SPE)66<br>DK.....88 | HL6B<br>CAN (NAME)<br>WRITE WITH<br>UNDERSTANDING IN<br>ANY ONE OF THE<br>LANGUAGES?<br>URDU.....01<br>ENGLISH.....02<br>PASHTU.....03<br>BALOCHI....04<br>BRAHVI .....05<br>SINDHI.....10<br>CAN NOT<br>WRITE.....11<br>OTHER (SPE.) 66<br>DK.....88 |  | HL7.<br><i>Circle<br/>line number<br/>if woman is<br/>age</i><br>1 5-<br>49 | HL8.<br>WHO IS THE<br>MOTHER OR<br>PRIMARY<br>CARETAKER<br>OF THIS<br>CHILD?<br><br><i>Record<br/>line number<br/>of mother/<br/>caretaker</i> | HL9.<br>WHO IS THE<br>MOTHER OR<br>PRIMARY<br>CARETAKER<br>OF THIS<br>CHILD?<br><br><i>Record<br/>line number<br/>of mother/<br/>caretaker</i> | HL10.<br>DID (name)<br>STAY HERE<br>LAST<br>NIGHT?<br><br>1 Yes<br>2 No | HL11.<br>IS<br>(NAME)'S<br>NATURAL<br>MOTHER<br>ALIVE?<br><br>1 YES<br>2 NO ↘<br>HL13<br>8 DK ↘<br>HL13 | HL12<br>DOES<br>(NAME)'S<br>NATURAL<br>MOTHER LIVE<br>IN THIS<br>HOUSEHOLD?<br><br><i>RECORD<br/>LINE NUMBER<br/>OF MOTHER<br/>OR 00 FOR<br/>"No"</i> | HL13<br>IS<br>(NAME)'S<br>NATURAL<br>FATHER<br>ALIVE?<br><br>1 YES<br>2 NO ↘<br>NEXT<br>LINE<br>8 DK ↘<br>NEXT<br>LINE | HL14<br>DOES (NAME)'S<br>NATURAL<br>FATHER LIVE IN<br>THIS<br>HOUSEHOLD?<br><br><i>RECORD<br/>LINE NUMBER<br/>OF FATHER OR<br/>00 FOR "No"</i> |
|------------------------|--------------|--------------------------------------------------------------------------------------------------|----------------------------------------|--------------------------------------------|-------|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Line                   | Name         | Relation*                                                                                        | M F                                    | Month                                      | Year  | Age                           | Write code                                                                                                                                                                                                                                      | Write code                                                                                                                                                                                                                                            |  | 15-49                                                                       | Mother                                                                                                                                         | Mother                                                                                                                                         | Y N                                                                     | Y N DK                                                                                                  | Mother                                                                                                                                                | Y N<br>DK                                                                                                              | Father                                                                                                                                         |
| 06                     |              | __ __                                                                                            | 1 2                                    | __                                         | _____ | __ __                         |                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                       |  | 06                                                                          | __ __                                                                                                                                          | __ __                                                                                                                                          | 1 2                                                                     | 1 2 8                                                                                                   | __ __                                                                                                                                                 | 1 2 8                                                                                                                  | __ __                                                                                                                                          |
| 07                     |              | __ __                                                                                            | 1 2                                    | __                                         | _____ | __ __                         |                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                       |  | 07                                                                          | __ __                                                                                                                                          | __ __                                                                                                                                          | 1 2                                                                     | 1 2 8                                                                                                   | __ __                                                                                                                                                 | 1 2 8                                                                                                                  | __ __                                                                                                                                          |
| 08                     |              | __ __                                                                                            | 1 2                                    | __                                         | _____ | __ __                         |                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                       |  | 08                                                                          | __ __                                                                                                                                          | __ __                                                                                                                                          | 1 2                                                                     | 1 2 8                                                                                                   | __ __                                                                                                                                                 | 1 2 8                                                                                                                  | __ __                                                                                                                                          |
| 09                     |              | __ __                                                                                            | 1 2                                    | __                                         | _____ | __ __                         |                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                       |  | 09                                                                          | __ __                                                                                                                                          | __ __                                                                                                                                          | 1 2                                                                     | 1 2 8                                                                                                   | __ __                                                                                                                                                 | 1 2 8                                                                                                                  | __ __                                                                                                                                          |
| 10                     |              | __ __                                                                                            | 1.....                                 | __                                         | _____ | __ __                         |                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                       |  | 10                                                                          | __ __                                                                                                                                          | __ __                                                                                                                                          | 1 2                                                                     | 1 2 8                                                                                                   | __ __                                                                                                                                                 | 1 2 8                                                                                                                  | __ __                                                                                                                                          |
| 11                     |              | __ __                                                                                            | 1 2                                    | __                                         | _____ | __ __                         |                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                       |  | 11                                                                          | __ __                                                                                                                                          | __ __                                                                                                                                          | 1 2                                                                     | 1 2 8                                                                                                   | __ __                                                                                                                                                 | 1 2 8                                                                                                                  | __ __                                                                                                                                          |
| 12                     |              | __ __                                                                                            | 1 2                                    | __                                         | _____ | __ __                         |                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                       |  | 12                                                                          | __ __                                                                                                                                          | __ __                                                                                                                                          | 1 2                                                                     | 1 2 8                                                                                                   | __ __                                                                                                                                                 | 1 2 8                                                                                                                  | __ __                                                                                                                                          |
| 13                     |              | __ __                                                                                            | 1 2                                    | __                                         | _____ | __ __                         |                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                       |  | 13                                                                          | __ __                                                                                                                                          | __ __                                                                                                                                          | 1 2                                                                     | 1 2 8                                                                                                   | __ __                                                                                                                                                 | 1 2 8                                                                                                                  | __ __                                                                                                                                          |
| 14                     |              | __ __                                                                                            | 1 2                                    | __                                         | _____ | __ __                         |                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                       |  | 14                                                                          | __ __                                                                                                                                          | __ __                                                                                                                                          | 1 2                                                                     | 1 2 8                                                                                                   | __ __                                                                                                                                                 | 1 2 8                                                                                                                  | __ __                                                                                                                                          |
| 15                     |              | __ __                                                                                            | 1 2                                    | __                                         | _____ | __ __                         |                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                       |  | 15                                                                          | __ __                                                                                                                                          | __ __                                                                                                                                          | 1 2                                                                     | 1 2 8                                                                                                   | __ __                                                                                                                                                 | 1 2 8                                                                                                                  | __ __                                                                                                                                          |

Tick here if additional questionnaire used

Probe for additional household members.  
Probe especially for any infants or small children not listed, and others who may not be members of the family (such as servants, friends) but who usually live in the household.

*Insert names of additional members in the household list and complete form accordingly.*

*Now for each woman age 15-49 years, write her name and line number and other identifying information in the information panel of a separate Individual Women's Questionnaire.  
For each child under age 5, write his/her name and line number AND the line number of his/her mother or caretaker in the information panel of a separate Under-5 Questionnaire.  
You should now have a separate questionnaire for each eligible woman and each child under five in the household.*

\* Codes for HL3: Relationship to head of household:

|                   |                                 |               |                     |                                   |                   |                                 |
|-------------------|---------------------------------|---------------|---------------------|-----------------------------------|-------------------|---------------------------------|
| 01 Head           | 03 Son / Daughter               | 05 Grandchild | 07 Parent-In-Law    | 09 Brother-In-Law / Sister-In-Law | 11 Niece / Nephew | 13 Adopted / Foster / Stepchild |
| 02 Wife / Husband | 04 Son-In-Law / Daughter-In-Law | 06 Parent     | 08 Brother / Sister | 10 Uncle / Aunt                   | 12 Other relative | 14 Not related                  |
|                   |                                 |               |                     |                                   |                   | 98 Don't know                   |

| For household members age 5 and above |                                                                           |     |                                                                                            |    |                                                                                                                               | For household members age 5-24 years(Ask ED8A to ED8D only for level 0-3 and if answers to ED6 or ED8 for level 0-3 is YES) |                                                                                                                       |    |                                                                                                                              |                                                        |                                                                                                                                                                             |   |                                                                                                                                    |                                                        |                                                                                                                                       |                                                                                                       |                                                                                                          |                                                                                               |   |   |   |   |   |   |         |
|---------------------------------------|---------------------------------------------------------------------------|-----|--------------------------------------------------------------------------------------------|----|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|----|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---|---|---|---|---|---|---------|
| ED1.<br>Line<br>number                | ED2.<br>Name and age<br><br>Copy from Household Listing Form, HL2 and HL6 |     | ED3.<br>HAS (name) EVER ATTENDED SCHOOL OR PRE-SCHOOL?<br><br>1 Yes<br>2 No ↗<br>Next Line |    | ED4.<br>WHAT IS THE HIGHEST LEVEL OF SCHOOL (name) ATTENDED?<br><br>WHAT IS THE HIGHEST GRADE (name) COMPLETED AT THIS LEVEL? |                                                                                                                             | ED5.<br>DURING THE (2009-2010) SCHOOL YEAR, DID ATTEND SCHOOL OR PRESCHOOL AT ANY TIME?<br><br>1 Yes<br>2 No ↗<br>ED7 |    | ED6.<br>DURING THIS/THAT SCHOOL YEAR, WHICH LEVEL AND GRADE IS/WAS (name) ATTENDING?                                         |                                                        | ED7.<br>DURING THE PREVIOUS SCHOOL YEAR, THAT IS (2008-2009), DID (name) ATTEND SCHOOL OR PRESCHOOL AT ANY TIME?<br><br>1 Yes<br>2 No ↗<br>Next Line<br>8 DK ↗<br>Next Line |   | ED8.<br>DURING THAT PREVIOUS SCHOOL YEAR, WHICH LEVEL AND GRADE DID (name) ATTEND?                                                 |                                                        | ED8A<br>WHAT TYPE OF SCHOOL DID/DOES (NAME) ATTEND DURING 2009-10,<br>GOVERNMENT OR PRIVATE?<br><br>1 GOVERNMENT<br>2 PRIVATE<br>8 DK | ED8B<br>WAS/ IS IT A GIRLS, BOYS OR CO-EDUCATION SCHOOL?<br><br>1 GIRLS<br>2 BOYS<br>3 CO-EDU<br>8 DK | ED8C<br>Did/Does (name) go to school on foot or by any other means?<br><br>1 On foot<br>2 By other means | ED8D<br>How long did/does it take (name) to reach school?<br><br>Number of Minutes<br>_ _ _ _ |   |   |   |   |   |   |         |
|                                       |                                                                           |     |                                                                                            |    | Level:<br>0 Preschool<br>1 Primary<br>2 Middle<br>3 Matric<br>4 Higher<br>5. Madrassa<br>8 DK<br><br>If level=0, skip to ED5  | Grade:<br>98 DK<br><br>If less than 1 grade, enter 00                                                                       |                                                                                                                       |    | Level:<br>0 Preschool<br>1 Primary<br>2 Middle<br>3 Matric<br>4 Higher<br>5. Madrassa<br>8 DK<br><br>If level=0, skip to ED7 | Grade:<br>98 DK<br><br>If less than 1 grade, enter 00. |                                                                                                                                                                             |   | Level:<br>0 Preschool<br>1 Primary<br>2 Middle<br>3 Matric<br>4 Higher<br>5. Madrassa<br>8 DK<br><br>If level=0, go to next person | Grade:<br>98 DK<br><br>IF LESS THAN 1 GRADE, ENTER 00. |                                                                                                                                       |                                                                                                       |                                                                                                          |                                                                                               |   |   |   |   |   |   |         |
| Line                                  | Name                                                                      | Age | Yes                                                                                        | No | Level                                                                                                                         | Grade                                                                                                                       | Yes                                                                                                                   | No | Level                                                                                                                        | Grade                                                  | Y                                                                                                                                                                           | N | DK                                                                                                                                 | Level                                                  | Grade                                                                                                                                 | Circle code                                                                                           |                                                                                                          |                                                                                               |   |   |   |   |   |   |         |
| 01                                    |                                                                           | _ _ | 1                                                                                          | 2  | 0 1 2 3 4 5 8                                                                                                                 | _ _                                                                                                                         | 1                                                                                                                     | 2  | 0 1 2 3 4 5 8                                                                                                                | _ _                                                    | 1                                                                                                                                                                           | 2 | 8                                                                                                                                  | 0 1 2 3 4 5 8                                          | _ _                                                                                                                                   | 1                                                                                                     | 2                                                                                                        | 8                                                                                             | 1 | 2 | 3 | 8 | 1 | 2 | _ _ _ _ |
| 02                                    |                                                                           | _ _ | 1                                                                                          | 2  | 0 1 2 3 4 5 8                                                                                                                 | _ _                                                                                                                         | 1                                                                                                                     | 2  | 0 1 2 3 4 5 8                                                                                                                | _ _                                                    | 1                                                                                                                                                                           | 2 | 8                                                                                                                                  | 0 1 2 3 4 5 8                                          | _ _                                                                                                                                   | 1                                                                                                     | 2                                                                                                        | 8                                                                                             | 1 | 2 | 3 | 8 | 1 | 2 | _ _ _ _ |
| 03                                    |                                                                           | _ _ | 1                                                                                          | 2  | 0 1 2 3 4 5 8                                                                                                                 | _ _                                                                                                                         | 1                                                                                                                     | 2  | 0 1 2 3 4 5 8                                                                                                                | _ _                                                    | 1                                                                                                                                                                           | 2 | 8                                                                                                                                  | 0 1 2 3 4 5 8                                          | _ _                                                                                                                                   | 1                                                                                                     | 2                                                                                                        | 8                                                                                             | 1 | 2 | 3 | 8 | 1 | 2 | _ _ _ _ |
| 04                                    |                                                                           | _ _ | 1                                                                                          | 2  | 0 1 2 3 4 5 8                                                                                                                 | _ _                                                                                                                         | 1                                                                                                                     | 2  | 0 1 2 3 4 5 8                                                                                                                | _ _                                                    | 1                                                                                                                                                                           | 2 | 8                                                                                                                                  | 0 1 2 3 4 5 8                                          | _ _                                                                                                                                   | 1                                                                                                     | 2                                                                                                        | 8                                                                                             | 1 | 2 | 3 | 8 | 1 | 2 | _ _ _ _ |
| 05                                    |                                                                           | _ _ | 1                                                                                          | 2  | 0 1 2 3 4 5 8                                                                                                                 | _ _                                                                                                                         | 1                                                                                                                     | 2  | 0 1 2 3 4 5 8                                                                                                                | _ _                                                    | 1                                                                                                                                                                           | 2 | 8                                                                                                                                  | 0 1 2 3 4 5 8                                          | _ _                                                                                                                                   | 1                                                                                                     | 2                                                                                                        | 8                                                                                             | 1 | 2 | 3 | 8 | 1 | 2 | _ _ _ _ |
| 06                                    |                                                                           | _ _ | 1                                                                                          | 2  | 0 1 2 3 4 5 8                                                                                                                 | _ _                                                                                                                         | 1                                                                                                                     | 2  | 0 1 2 3 4 5 8                                                                                                                | _ _                                                    | 1                                                                                                                                                                           | 2 | 8                                                                                                                                  | 0 1 2 3 4 5 8                                          | _ _                                                                                                                                   | 1                                                                                                     | 2                                                                                                        | 8                                                                                             | 1 | 2 | 3 | 8 | 1 | 2 | _ _ _ _ |
| 07                                    |                                                                           | _ _ | 1                                                                                          | 2  | 0 1 2 3 4 5 8                                                                                                                 | _ _                                                                                                                         | 1                                                                                                                     | 2  | 0 1 2 3 4 5 8                                                                                                                | _ _                                                    | 1                                                                                                                                                                           | 2 | 8                                                                                                                                  | 0 1 2 3 4 5 8                                          | _ _                                                                                                                                   | 1                                                                                                     | 2                                                                                                        | 8                                                                                             | 1 | 2 | 3 | 8 | 1 | 2 | _ _ _ _ |
| 08                                    |                                                                           | _ _ | 1                                                                                          | 2  | 0 1 2 3 4 5 8                                                                                                                 | _ _                                                                                                                         | 1                                                                                                                     | 2  | 0 1 2 3 4 5 8                                                                                                                | _ _                                                    | 1                                                                                                                                                                           | 2 | 8                                                                                                                                  | 0 1 2 3 4 5 8                                          | _ _                                                                                                                                   | 1                                                                                                     | 2                                                                                                        | 8                                                                                             | 1 | 2 | 3 | 8 | 1 | 2 | _ _ _ _ |
| 09                                    |                                                                           | _ _ | 1                                                                                          | 2  | 0 1 2 3 4 5 8                                                                                                                 | _ _                                                                                                                         | 1                                                                                                                     | 2  | 0 1 2 3 4 5 8                                                                                                                | _ _                                                    | 1                                                                                                                                                                           | 2 | 8                                                                                                                                  | 0 1 2 3 4 5 8                                          | _ _                                                                                                                                   | 1                                                                                                     | 2                                                                                                        | 8                                                                                             | 1 | 2 | 3 | 8 | 1 | 2 | _ _ _ _ |
| 10                                    |                                                                           | _ _ | 1                                                                                          | 2  | 0 1 2 3 4 5 8                                                                                                                 | _ _                                                                                                                         | 1                                                                                                                     | 2  | 0 1 2 3 4 5 8                                                                                                                | _ _                                                    | 1                                                                                                                                                                           | 2 | 8                                                                                                                                  | 0 1 2 3 4 5 8                                          | _ _                                                                                                                                   | 1                                                                                                     | 2                                                                                                        | 8                                                                                             | 1 | 2 | 3 | 8 | 1 | 2 | _ _ _ _ |
| 11                                    |                                                                           | _ _ | 1                                                                                          | 2  | 0 1 2 3 4 5 8                                                                                                                 | _ _                                                                                                                         | 1                                                                                                                     | 2  | 0 1 2 3 4 5 8                                                                                                                | _ _                                                    | 1                                                                                                                                                                           | 2 | 8                                                                                                                                  | 0 1 2 3 4 5 8                                          | _ _                                                                                                                                   | 1                                                                                                     | 2                                                                                                        | 8                                                                                             | 1 | 2 | 3 | 8 | 1 | 2 | _ _ _ _ |
| 12                                    |                                                                           | _ _ | 1                                                                                          | 2  | 0 1 2 3 4 5 8                                                                                                                 | _ _                                                                                                                         | 1                                                                                                                     | 2  | 0 1 2 3 4 5 8                                                                                                                | _ _                                                    | 1                                                                                                                                                                           | 2 | 8                                                                                                                                  | 0 1 2 3 4 5 8                                          | _ _                                                                                                                                   | 1                                                                                                     | 2                                                                                                        | 8                                                                                             | 1 | 2 | 3 | 8 | 1 | 2 | _ _ _ _ |
| 13                                    |                                                                           | _ _ | 1                                                                                          | 2  | 0 1 2 3 4 5 8                                                                                                                 | _ _                                                                                                                         | 1                                                                                                                     | 2  | 0 1 2 3 4 5 8                                                                                                                | _ _                                                    | 1                                                                                                                                                                           | 2 | 8                                                                                                                                  | 0 1 2 3 4 5 8                                          | _ _                                                                                                                                   | 1                                                                                                     | 2                                                                                                        | 8                                                                                             | 1 | 2 | 3 | 8 | 1 | 2 | _ _ _ _ |
| 14                                    |                                                                           | _ _ | 1                                                                                          | 2  | 0 1 2 3 4 5 8                                                                                                                 | _ _                                                                                                                         | 1                                                                                                                     | 2  | 0 1 2 3 4 5 8                                                                                                                | _ _                                                    | 1                                                                                                                                                                           | 2 | 8                                                                                                                                  | 0 1 2 3 4 5 8                                          | _ _                                                                                                                                   | 1                                                                                                     | 2                                                                                                        | 8                                                                                             | 1 | 2 | 3 | 8 | 1 | 2 | _ _ _ _ |
| 15                                    |                                                                           | _ _ | 1                                                                                          | 2  | 0 1 2 3 4 5 8                                                                                                                 | _ _                                                                                                                         | 1                                                                                                                     | 2  | 0 1 2 3 4 5 8                                                                                                                | _ _                                                    | 1                                                                                                                                                                           | 2 | 8                                                                                                                                  | 0 1 2 3 4 5 8                                          | _ _                                                                                                                                   | 1                                                                                                     | 2                                                                                                        | 8                                                                                             | 1 | 2 | 3 | 8 | 1 | 2 | _ _ _ _ |

|                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                              |
|-------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| <p>WS1. WHAT IS THE MAIN SOURCE OF DRINKING WATER FOR MEMBERS OF YOUR HOUSEHOLD?</p>                                    | <p>Piped water<br/> Piped into dwelling..... 11<br/> Piped into compound, yard or plot..... 12<br/> Piped to neighbour..... 13<br/> Public tap / standpipe ..... 14<br/> Filter Plant .....15<br/> Tube Well, Borehole..... 21<br/> Dug well<br/> Protected well ..... 31<br/> Unprotected well ..... 32<br/> Water from spring<br/> Protected spring ..... 41<br/> Unprotected spring ..... 42<br/> Rainwater collection ..... 51<br/> Tanker-truck..... 61<br/> Cart with small tank / drum ..... 71<br/> Surface water (river, stream, dam, lake, pond, canal, irrigation channel)..... 81<br/> Bottled water..... 91<br/> Other (<i>specify</i>) ..... 96</p> | <p>11⇒WS6<br/> 12⇒WS6<br/> 13⇒WS6<br/> } WS3<br/> 96⇒WS3</p> |
| <p>WS2. WHAT IS THE MAIN SOURCE OF WATER USED BY YOUR HOUSEHOLD FOR OTHER PURPOSES SUCH AS COOKING AND HANDWASHING?</p> | <p>Piped water<br/> Piped into dwelling..... 11<br/> Piped into compound, yard or plot..... 12<br/> Piped to neighbour..... 13<br/> Public tap / standpipe ..... 14<br/> Filter Plant.....15<br/> Tube Well, Borehole..... 21<br/> Dug well<br/> Protected well ..... 31<br/> Unprotected well ..... 32<br/> Water from spring<br/> Protected spring ..... 41<br/> Unprotected spring ..... 42<br/> Rainwater collection ..... 51<br/> Tanker-truck..... 61<br/> Cart with small tank / drum ..... 71<br/> Surface water (river, stream, dam, lake, pond, canal, irrigation channel)..... 81<br/> Other (<i>specify</i>) ..... 96</p>                             | <p>11⇒WS6<br/> 12⇒WS6<br/> 13⇒WS6</p>                        |
| <p>WS3. WHERE IS THAT WATER SOURCE LOCATED?</p>                                                                         | <p>In own dwelling ..... 1<br/> In own yard / plot..... 2<br/> Elsewhere ..... 3</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <p>1⇒WS6<br/> 2⇒WS6</p>                                      |
| <p>WS4. HOW LONG DOES IT TAKE TO GO THERE, GET WATER, AND COME BACK?</p>                                                | <p>Number of minutes ..... _ _ _ _<br/> DK..... 998</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                              |



|                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| <p>WS5. WHO USUALLY GOES TO THIS SOURCE TO COLLECT THE WATER FOR YOUR HOUSEHOLD?</p> <p><i>Probe:</i><br/>IS THIS PERSON UNDER AGE 15?</p> <p>WHAT SEX?</p>                                                                         | <p>Adult woman (age 15+ years)..... 1<br/> Adult man (age 15+ years).....2<br/> Female child (under 15) .....3<br/> Male child (under 15).....4<br/> <br/> DK.....8</p>                                                                                                                                                                                                                                                                                                                                                                                                            |                         |
| <p>WS6. DO YOU DO ANYTHING TO THE WATER TO MAKE IT SAFER TO DRINK?</p>                                                                                                                                                              | <p>Yes ..... 1<br/> No .....2<br/> <br/> DK.....8</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <p>2⇒WS8<br/> 8⇒WS8</p> |
| <p>WS7. WHAT DO YOU USUALLY DO TO MAKE THE WATER SAFER TO DRINK?</p> <p><i>Probe:</i><br/>ANYTHING ELSE?</p> <p><i>Record all items mentioned.</i></p>                                                                              | <p>Boil .....A<br/> Add bleach / chlorine .....B<br/> Strain it through a cloth..... C<br/> Use water filter (ceramic, sand, composite, etc.)..... D<br/> Solar disinfection..... E<br/> Let it stand and settle..... F<br/> <br/> Other (<i>specify</i>) _____ X<br/> DK..... Z</p>                                                                                                                                                                                                                                                                                               |                         |
| <p>WS8. WHAT KIND OF TOILET FACILITY DO MEMBERS OF YOUR HOUSEHOLD USUALLY USE?</p> <p><i>If “flush” or “pour flush”, probe:</i><br/>WHERE DOES IT FLUSH TO?</p> <p><i>If necessary, ask permission to observe the facility.</i></p> | <p>Flush / Pour flush<br/> Flush to piped sewer system ..... 11<br/> Flush to septic tank ..... 12<br/> Flush to pit (latrine) ..... 13<br/> Flush to somewhere else ..... 14<br/> Flush to unknown place / Not sure / DK where ..... 15<br/> Pit latrine<br/> Ventilated Improved Pit latrine (VIP) .....21<br/> Pit latrine with slab ..... 22<br/> Pit latrine without slab / Open pit.....23<br/> <br/> Composting toilet .....31<br/> Bucket.....41<br/> Public/communal latrine .....52<br/> <br/> No facility, Bush, Field .....95<br/> Other (<i>specify</i>) _____ 96</p> | <p>95⇒Next Module</p>   |
| <p>WS9. DO YOU SHARE THIS FACILITY WITH OTHERS WHO ARE NOT MEMBERS OF YOUR HOUSEHOLD?</p>                                                                                                                                           | <p>Yes ..... 1<br/> No .....2</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <p>2⇒Next Module</p>    |
| <p>WS10. DO YOU SHARE THIS FACILITY ONLY WITH MEMBERS OF OTHER HOUSEHOLDS THAT YOU KNOW, OR IS THE FACILITY OPEN TO THE USE OF THE GENERAL PUBLIC?</p>                                                                              | <p>Other households only (not public)..... 1<br/> Public facility .....2</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <p>2⇒Next Module</p>    |
| <p>WS11. HOW MANY HOUSEHOLDS IN TOTAL USE THIS TOILET FACILITY, INCLUDING YOUR OWN HOUSEHOLD?</p>                                                                                                                                   | <p>Number of households (if less than 10)..... 0 __<br/> <br/> Ten or more households .....10<br/> DK.....98</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                         |

| QUESTIONNAIRE                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                   |  |
|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| HC2. HOW MANY ROOMS IN THIS HOUSEHOLD ARE USED FOR SLEEPING?                | Number of rooms ..... __ __                                                                                                                                                                                                                                                                                                                                                                                       |  |
| HC3. Main material of the dwelling floor.<br><br><i>Record observation.</i> | Natural floor<br>Earth / Sand..... 11<br>Dung..... 12<br>Rudimentary floor (katcha) ..... 21<br><br>Finished floor (Pacca)<br>Bricked..... 36<br>Cemented with marble chips ..... 37<br>Ceramic tiles ..... 33<br>Cement ..... 34<br>Carpet..... 35<br><br>Other ( <i>specify</i> ) ..... 96                                                                                                                      |  |
| HC4. Main material of the roof.<br><br><i>Record observation.</i>           | Natural roofing<br>No Roof..... 11<br>Thatch / Palm leaf..... 12<br>Sod ..... 13<br>Rudimentary Roofing<br>Rustic mat ..... 21<br>Palm / Bamboo beams ..... 22<br>Wood planks ..... 23<br>Cardboard..... 24<br>Finished roofing<br>Tin with iron girders ..... 31<br>Wood..... 32<br><br>Ceramic tiles ..... 34<br>Cement concrete ..... 35<br>Roofing shingles ..... 36<br><br>Other ( <i>specify</i> ) ..... 96 |  |

| <p>HC5. Main material of the exterior walls.</p> <p><i>Record observation.</i></p>                                                                                                      | <p>Natural walls</p> <p>No walls ..... 11</p> <p>Cane / Palm / Trunks ..... 12</p> <p>Dirt ..... 13</p> <p>Rudimentary walls (Katcha)</p> <p>Bamboo with mud ..... 21</p> <p>Stone with mud ..... 22</p> <p>Uncovered adobe ..... 23</p> <p>Plywood ..... 24</p> <p>Cardboard..... 25</p> <p>Reused wood..... 26</p> <p>Finished walls (Pacca)</p> <p>Cement ..... 31</p> <p>Stone with lime / cement ..... 32</p> <p>Bricks ..... 33</p> <p>Cement blocks ..... 34</p> <p>Covered adobe ..... 35</p> <p>Wood planks / shingles..... 36</p> <p>Other (<i>specify</i>) ..... 96</p> |               |     |    |                   |   |   |          |   |   |             |   |   |                 |   |   |                           |   |   |                    |   |   |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----|----|-------------------|---|---|----------|---|---|-------------|---|---|-----------------|---|---|---------------------------|---|---|--------------------|---|---|--|
| <p>HC6. WHAT TYPE OF FUEL DOES YOUR HOUSEHOLD MAINLY USE FOR COOKING?</p>                                                                                                               | <p>Electricity ..... 01</p> <p>Liquefied Petroleum Gas (LPG)..... 02</p> <p>Natural gas ..... 03</p> <p>Biogas..... 04</p> <p>Kerosene..... 05</p> <p>Coal ..... 06</p> <p>Charcoal ..... 07</p> <p>Wood ..... 08</p> <p>Straw / Shrubs / Grass..... 09</p> <p>Animal dung..... 10</p> <p>Agricultural crop residue ..... 11</p> <p>No food cooked in household ..... 95</p> <p>Other (<i>specify</i>) ..... 96</p>                                                                                                                                                                | <p>95⇒HC8</p> |     |    |                   |   |   |          |   |   |             |   |   |                 |   |   |                           |   |   |                    |   |   |  |
| <p>HC7. IS THE COOKING USUALLY DONE IN THE HOUSE, IN A SEPARATE BUILDING, OR OUTDOORS?</p> <p><i>If 'In the house', probe: IS IT DONE IN A SEPARATE ROOM USED AS A KITCHEN?</i></p>     | <p>In the house</p> <p>In a separate room used as kitchen..... 1</p> <p>Elsewhere in the house ..... 2</p> <p>In a separate building ..... 3</p> <p>Outdoors ..... 4</p> <p>Other (<i>specify</i>) ..... 6</p>                                                                                                                                                                                                                                                                                                                                                                     |               |     |    |                   |   |   |          |   |   |             |   |   |                 |   |   |                           |   |   |                    |   |   |  |
| <p>HC8. DOES YOUR HOUSEHOLD HAVE:</p> <p>[A] ELECTRICITY?</p> <p>[I] GAS</p> <p>[B] A RADIO?</p> <p>[C] A TELEVISION?</p> <p>[D] A NON-MOBILE TELEPHONE?</p> <p>[E] A REFRIGERATOR?</p> | <table border="1"> <thead> <tr> <th></th> <th>Yes</th> <th>No</th> </tr> </thead> <tbody> <tr> <td>Electricity .....</td> <td>1</td> <td>2</td> </tr> <tr> <td>Gas.....</td> <td>1</td> <td>2</td> </tr> <tr> <td>Radio .....</td> <td>1</td> <td>2</td> </tr> <tr> <td>Television.....</td> <td>1</td> <td>2</td> </tr> <tr> <td>Non-mobile telephone.....</td> <td>1</td> <td>2</td> </tr> <tr> <td>Refrigerator .....</td> <td>1</td> <td>2</td> </tr> </tbody> </table>                                                                                                        |               | Yes | No | Electricity ..... | 1 | 2 | Gas..... | 1 | 2 | Radio ..... | 1 | 2 | Television..... | 1 | 2 | Non-mobile telephone..... | 1 | 2 | Refrigerator ..... | 1 | 2 |  |
|                                                                                                                                                                                         | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | No            |     |    |                   |   |   |          |   |   |             |   |   |                 |   |   |                           |   |   |                    |   |   |  |
| Electricity .....                                                                                                                                                                       | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2             |     |    |                   |   |   |          |   |   |             |   |   |                 |   |   |                           |   |   |                    |   |   |  |
| Gas.....                                                                                                                                                                                | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2             |     |    |                   |   |   |          |   |   |             |   |   |                 |   |   |                           |   |   |                    |   |   |  |
| Radio .....                                                                                                                                                                             | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2             |     |    |                   |   |   |          |   |   |             |   |   |                 |   |   |                           |   |   |                    |   |   |  |
| Television.....                                                                                                                                                                         | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2             |     |    |                   |   |   |          |   |   |             |   |   |                 |   |   |                           |   |   |                    |   |   |  |
| Non-mobile telephone.....                                                                                                                                                               | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2             |     |    |                   |   |   |          |   |   |             |   |   |                 |   |   |                           |   |   |                    |   |   |  |
| Refrigerator .....                                                                                                                                                                      | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2             |     |    |                   |   |   |          |   |   |             |   |   |                 |   |   |                           |   |   |                    |   |   |  |

|                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                         |               |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| <p>[G] A COMPUTER</p> <p>[H] A SEWING/EMBROIDERY MACHINE</p>                                                                                                                                                                                                                                                                           | <p>Computer..... 1 2</p> <p>Sewing/embroidery machine ..... 1 2</p>                                                                                                                                                                                     |               |
| <p>HC9. DOES ANY MEMBER OF YOUR HOUSEHOLD OWN:</p> <p>[A] A WATCH?</p> <p>[B] A MOBILE TELEPHONE?</p> <p>[C] A BICYCLE?</p> <p>[D] A MOTORCYCLE OR SCOOTER?</p> <p>[E] AN ANIMAL-DRAWN CART?</p> <p>[F] A CAR OR TRUCK?</p> <p>[H] A TRACTOR</p>                                                                                       | <p style="text-align: right;">Yes No</p> <p>Watch ..... 1 2</p> <p>Mobile telephone ..... 1 2</p> <p>Bicycle..... 1 2</p> <p>Motorcycle / Scooter ..... 1 2</p> <p>Animal drawn-cart ..... 1 2</p> <p>Car / Truck ..... 1 2</p> <p>Tractor..... 1 2</p> |               |
| <p>HC10. DO YOU OR SOMEONE LIVING IN THIS HOUSEHOLD OWN THIS DWELLING?</p> <p><i>If "No", then ask:</i><br/>DO YOU RENT THIS DWELLING FROM SOMEONE NOT LIVING IN THIS HOUSEHOLD?</p> <p><i>If "Rented from someone else", circle "2". For other responses, circle "3".</i></p>                                                         | <p>Own ..... 1</p> <p>Rent ..... 2</p> <p>Other (Not owned or rented)..... 6</p>                                                                                                                                                                        |               |
| <p>HC11. DOES ANY MEMBER OF THIS HOUSEHOLD OWN ANY LAND THAT CAN BE USED FOR AGRICULTURE?</p>                                                                                                                                                                                                                                          | <p>Yes..... 1</p> <p>No ..... 2</p>                                                                                                                                                                                                                     | 2⇒HC13        |
| <p>HC12. HOW MANY ACRES OF AGRICULTURAL LAND DO MEMBERS OF THIS HOUSEHOLD OWN?</p> <p><i>If less than 1, record "00".</i><br/><i>If 95 or more, record '95'.</i><br/><i>If unknown, record '98'.</i></p>                                                                                                                               | <p>Acres.....__ __</p>                                                                                                                                                                                                                                  |               |
| <p>HC13. DOES THIS HOUSEHOLD OWN ANY LIVESTOCK, HERDS, OTHER FARM ANIMALS, OR POULTRY?</p>                                                                                                                                                                                                                                             | <p>Yes..... 1</p> <p>No ..... 2</p>                                                                                                                                                                                                                     | 2⇒Next Module |
| <p>HC14. HOW MANY OF THE FOLLOWING ANIMALS DOES THIS HOUSEHOLD HAVE?</p> <p>[A] CATTLE, MILK COWS, OR BULLS?</p> <p>[B] HORSES, DONKEYS, CAMELS, OR MULES?</p> <p>[C] GOATS?</p> <p>[D] SHEEP?</p> <p>[E] CHICKENS?</p> <p><i>If none, record '00'.</i><br/><i>If 95 or more, record '95'.</i><br/><i>If unknown, record '98'.</i></p> | <p>Cattle, milk cows, or bulls .....__ __</p> <p>Horses, donkeys, camel or mules .....__ __</p> <p>Goats.....__ __</p> <p>Sheep .....__ __</p> <p>Chickens .....__ __</p>                                                                               |               |

|                                                                                                                      |                          |               |
|----------------------------------------------------------------------------------------------------------------------|--------------------------|---------------|
| TN1. DOES YOUR HOUSEHOLD HAVE ANY MOSQUITO NETS THAT CAN BE USED WHILE SLEEPING?                                     | Yes..... 1<br>No..... 2  | 2⇒Next Module |
| TN2. HOW MANY MOSQUITO NETS DOES YOUR HOUSEHOLD HAVE?                                                                | Number of nets..... ____ |               |
| TN3. Ask the respondent to show you the nets in the household. If more than 3 nets, use additional questionnaire(s). |                          |               |

|                                                                                                                                                                              | 1 <sup>st</sup> Net                                                                                                                                                                   | 2 <sup>nd</sup> Net                                                                                                                                                                   | 3 <sup>rd</sup> Net                                                                                                                                                                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TN4. Mosquito net observed?                                                                                                                                                  | Observed..... 1<br>Not observed..... 2                                                                                                                                                | Observed..... 1<br>Not observed..... 2                                                                                                                                                | Observed..... 1<br>Not observed..... 2                                                                                                                                                |
| TN5. Observe or ask the brand/type of mosquito net<br><br><i>If brand is unknown and you cannot observe the net, show pictures of typical net types/brands to respondent</i> | Long-lasting treated nets<br>YES..... 1<br>NO..... 2<br>Other (specify)..... 6<br>DK..... 8<br><br>Pre-treated nets<br>YES..... 1<br>NO..... 2<br>Other (specify)..... 6<br>DK..... 8 | Long-lasting treated nets<br>YES..... 1<br>NO..... 2<br>Other (specify)..... 6<br>DK..... 8<br><br>Pre-treated nets<br>YES..... 1<br>NO..... 2<br>Other (specify)..... 6<br>DK..... 8 | Long-lasting treated nets<br>YES..... 1<br>NO..... 2<br>Other (specify)..... 6<br>DK..... 8<br><br>Pre-treated nets<br>YES..... 1<br>NO..... 2<br>Other (specify)..... 6<br>DK..... 8 |
| TN6. HOW MANY MONTHS AGO DID YOUR HOUSEHOLD GET THE MOSQUITO NET?<br><br><i>If less than one month, record "00"</i>                                                          | Months ago..... ____<br>More than 36 mo. ago..... 95<br>DK / Not sure..... 98                                                                                                         | Months ago..... ____<br>More than 36 mo. ago..... 95<br>DK / Not sure..... 98                                                                                                         | Months ago..... ____<br>More than 36 mo. ago..... 95<br>DK / Not sure..... 98                                                                                                         |
| TN7. Check TN5 for type of net                                                                                                                                               | <input type="checkbox"/> Long-lasting (11-18)<br>⇒ TN11<br><br><input type="checkbox"/> Pre-treated (21-28)<br>⇒ TN9<br><br><input type="checkbox"/> Else ⇒ Continue                  | <input type="checkbox"/> Long-lasting (11-18)<br>⇒ TN11<br><br><input type="checkbox"/> Pre-treated (21-28)<br>⇒ TN9<br><br><input type="checkbox"/> Else ⇒ Continue                  | <input type="checkbox"/> Long-lasting (11-18)<br>⇒ TN11<br><br><input type="checkbox"/> Pre-treated (21-28)<br>⇒ TN9<br><br><input type="checkbox"/> Else ⇒ Continue                  |
| TN8. WHEN YOU GOT THE NET, WAS IT ALREADY TREATED WITH AN INSECTICIDE TO KILL OR REPEL MOSQUITOS?                                                                            | Yes..... 1<br>No..... 2<br>DK / Not sure..... 8                                                                                                                                       | Yes..... 1<br>No..... 2<br>DK / Not sure..... 8                                                                                                                                       | Yes..... 1<br>No..... 2<br>DK / Not sure..... 8                                                                                                                                       |
| TN9. SINCE YOU GOT THE NET, WAS IT EVER SOAKED OR DIPPED IN A LIQUID TO KILL OR REPEL MOSQUITOS?                                                                             | Yes..... 1<br>No..... 2<br>⇒ TN11<br>DK / Not sure..... 8<br>⇒ TN11                                                                                                                   | Yes..... 1<br>No..... 2<br>⇒ TN11<br>DK / Not sure..... 8<br>⇒ TN11                                                                                                                   | Yes..... 1<br>No..... 2<br>⇒ TN11<br>DK / Not sure..... 8<br>⇒ TN11                                                                                                                   |
| TN10. HOW MANY MONTHS AGO WAS THE NET LAST SOAKED OR DIPPED?<br><br><i>If less than one month, record "00"</i>                                                               | Months ago..... ____<br>More than 24 mo. ago..... 95<br>DK / Not sure..... 98                                                                                                         | Months ago..... ____<br>More than 24 mo. ago..... 95<br>DK / Not sure..... 98                                                                                                         | Months ago..... ____<br>More than 24 mo. ago..... 95<br>DK / Not sure..... 98                                                                                                         |

|                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>TN11. DID ANYONE SLEEP UNDER THIS MOSQUITO NET LAST NIGHT?</p>                                                                                                                                                                     | <p>Yes ..... 1<br/> No..... 2<br/> ⇒ TN13<br/> DK / Not sure..... 8<br/> ⇒ TN13</p>                                                                                                                                              | <p>Yes ..... 1<br/> No ..... 2<br/> ⇒ TN13<br/> DK / Not sure..... 8<br/> ⇒ TN13</p>                                                                                                                                             | <p>Yes ..... 1<br/> No ..... 2<br/> ⇒ TN13<br/> DK / Not sure ..... 8<br/> ⇒ TN13</p>                                                                                                                                                 |
| <p>TN12. WHO SLEPT UNDER THIS MOSQUITO NET LAST NIGHT?</p> <p><i>Record the person's line number from the household listing form</i></p> <p><i>If someone not in the household list slept under the mosquito net, record "00"</i></p> | <p>Name _____<br/> Line number..... ____</p> <p>Name _____<br/> Line number..... ____</p> <p>Name _____<br/> Line number..... ____</p> <p>Name _____<br/> Line number..... ____</p> <p>Name _____<br/> Line number..... ____</p> | <p>Name _____<br/> Line number..... ____</p> <p>Name _____<br/> Line number..... ____</p> <p>Name _____<br/> Line number..... ____</p> <p>Name _____<br/> Line number..... ____</p> <p>Name _____<br/> Line number..... ____</p> | <p>Name _____<br/> Line number ..... ____</p> <p>Name _____<br/> Line number ..... ____</p> <p>Name _____<br/> Line number ..... ____</p> <p>Name _____<br/> Line number ..... ____</p> <p>Name _____<br/> Line number ..... ____</p> |
| <p>TN13.</p>                                                                                                                                                                                                                          | <p><i>Go back to TN4 for next net. If no more nets, go to next module</i></p>                                                                                                                                                    | <p><i>Go back to TN4 for next net. If no more nets, go to next module</i></p>                                                                                                                                                    | <p><i>Go back to TN4 in first column of a new questionnaire for next net. If no more nets, go to next module</i></p>                                                                                                                  |

*Tick here if additional questionnaire used*

To be administered for children in the household age 5-14 years. For household members below age 5 or above age 14, leave rows blank.

NOW I WOULD LIKE TO ASK ABOUT ANY WORK CHILDREN IN THIS HOUSEHOLD MAY DO.

| CL1.<br>Line<br>number | CL2.<br>Name and Age |       | CL3.<br>DURING THE PAST<br>WEEK, DID (name)<br>DO ANY KIND OF<br>WORK FOR<br>SOMEONE WHO IS<br>NOT A MEMBER OF<br>THIS HOUSEHOLD?<br><br>If yes: FOR PAY IN<br>CASH OR KIND?<br><br>1 Yes, for pay<br>(cash or kind)<br>2 Yes, unpaid<br>3 No ⇒ CL5 |              |                    | CL4.<br>SINCE LAST<br>(day of the week),<br>ABOUT HOW MANY<br>HOURS DID HE/SHE<br>DO THIS WORK FOR<br>SOMEONE WHO IS<br>NOT A MEMBER OF<br>THIS HOUSEHOLD?<br><br>If more than one<br>job, include all<br>hours at all jobs. |    | CL5.<br>DURING THE PAST<br>WEEK, DID (name)<br>FETCH WATER OR<br>COLLECT<br>FIREWOOD FOR<br>HOUSEHOLD USE?<br><br>1 Yes<br>2 No ⇒ CL7 |     | CL6.<br>SINCE LAST<br>(day of the<br>week),<br>ABOUT HOW<br>MANY HOURS<br>DID HE/SHE<br>FETCH WATER<br>OR COLLECT<br>FIREWOOD FOR<br>HOUSEHOLD<br>USE? |                    | CL7.<br>DURING THE PAST WEEK, DID<br>(name) DO ANY PAID OR<br>UNPAID WORK ON A FAMILY<br>FARM OR IN A FAMILY<br>BUSINESS OR SELLING GOODS<br>IN THE STREET?<br><br>Include work for a business<br>run by the child, alone or<br>with one or more partners.<br><br>1 Yes<br>2 No ⇒ CL9 |    | CL8.<br>SINCE LAST<br>(day of the<br>week),<br>ABOUT HOW<br>MANY HOURS<br>DID HE/SHE DO<br>THIS WORK FOR<br>HIS/HER<br>FAMILY OR<br>HIMSELF/<br>HERSELF? |     | CL9.<br>DURING THE PAST<br>WEEK, DID (name)<br>HELP WITH<br>HOUSEHOLD CHORES<br>SUCH AS SHOPPING,<br>CLEANING, WASHING<br>CLOTHES, COOKING;<br>OR CARING FOR<br>CHILDREN, OLD OR<br>SICK PEOPLE?<br><br>1 Yes<br>2 No ⇒ Next Line |                    | CL10.<br>SINCE LAST<br>(day of the<br>week),<br>ABOUT HOW<br>MANY HOURS<br>DID HE/SHE<br>SPEND DOING<br>THESE<br>CHORES? |    |
|------------------------|----------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---------------------------------------------------------------------------------------------------------------------------------------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------------------------------------------------------------------------------------------------------------|----|
| Line                   | Name                 | Age   | Yes<br>Paid                                                                                                                                                                                                                                         | No<br>Unpaid | Number<br>of hours | Yes                                                                                                                                                                                                                          | No | Number<br>of hours                                                                                                                    | Yes | No                                                                                                                                                     | Number<br>of hours | Yes                                                                                                                                                                                                                                                                                   | No | Number<br>of hours                                                                                                                                       | Yes | No                                                                                                                                                                                                                                | Number<br>of hours |                                                                                                                          |    |
| 01                     |                      | __ __ | 1                                                                                                                                                                                                                                                   | 2            | 3                  | __                                                                                                                                                                                                                           | __ | 1                                                                                                                                     | 2   | __                                                                                                                                                     | __                 | 1                                                                                                                                                                                                                                                                                     | 2  | __                                                                                                                                                       | __  | 1                                                                                                                                                                                                                                 | 2                  | __                                                                                                                       | __ |
| 02                     |                      | __ __ | 1                                                                                                                                                                                                                                                   | 2            | 3                  | __                                                                                                                                                                                                                           | __ | 1                                                                                                                                     | 2   | __                                                                                                                                                     | __                 | 1                                                                                                                                                                                                                                                                                     | 2  | __                                                                                                                                                       | __  | 1                                                                                                                                                                                                                                 | 2                  | __                                                                                                                       | __ |
| 03                     |                      | __ __ | 1                                                                                                                                                                                                                                                   | 2            | 3                  | __                                                                                                                                                                                                                           | __ | 1                                                                                                                                     | 2   | __                                                                                                                                                     | __                 | 1                                                                                                                                                                                                                                                                                     | 2  | __                                                                                                                                                       | __  | 1                                                                                                                                                                                                                                 | 2                  | __                                                                                                                       | __ |
| 04                     |                      | __ __ | 1                                                                                                                                                                                                                                                   | 2            | 3                  | __                                                                                                                                                                                                                           | __ | 1                                                                                                                                     | 2   | __                                                                                                                                                     | __                 | 1                                                                                                                                                                                                                                                                                     | 2  | __                                                                                                                                                       | __  | 1                                                                                                                                                                                                                                 | 2                  | __                                                                                                                       | __ |
| 05                     |                      | __ __ | 1                                                                                                                                                                                                                                                   | 2            | 3                  | __                                                                                                                                                                                                                           | __ | 1                                                                                                                                     | 2   | __                                                                                                                                                     | __                 | 1                                                                                                                                                                                                                                                                                     | 2  | __                                                                                                                                                       | __  | 1                                                                                                                                                                                                                                 | 2                  | __                                                                                                                       | __ |
| 06                     |                      | __ __ | 1                                                                                                                                                                                                                                                   | 2            | 3                  | __                                                                                                                                                                                                                           | __ | 1                                                                                                                                     | 2   | __                                                                                                                                                     | __                 | 1                                                                                                                                                                                                                                                                                     | 2  | __                                                                                                                                                       | __  | 1                                                                                                                                                                                                                                 | 2                  | __                                                                                                                       | __ |
| 07                     |                      | __ __ | 1                                                                                                                                                                                                                                                   | 2            | 3                  | __                                                                                                                                                                                                                           | __ | 1                                                                                                                                     | 2   | __                                                                                                                                                     | __                 | 1                                                                                                                                                                                                                                                                                     | 2  | __                                                                                                                                                       | __  | 1                                                                                                                                                                                                                                 | 2                  | __                                                                                                                       | __ |
| 08                     |                      | __ __ | 1                                                                                                                                                                                                                                                   | 2            | 3                  | __                                                                                                                                                                                                                           | __ | 1                                                                                                                                     | 2   | __                                                                                                                                                     | __                 | 1                                                                                                                                                                                                                                                                                     | 2  | __                                                                                                                                                       | __  | 1                                                                                                                                                                                                                                 | 2                  | __                                                                                                                       | __ |
| 09                     |                      | __ __ | 1                                                                                                                                                                                                                                                   | 2            | 3                  | __                                                                                                                                                                                                                           | __ | 1                                                                                                                                     | 2   | __                                                                                                                                                     | __                 | 1                                                                                                                                                                                                                                                                                     | 2  | __                                                                                                                                                       | __  | 1                                                                                                                                                                                                                                 | 2                  | __                                                                                                                       | __ |
| 10                     |                      | __ __ | 1                                                                                                                                                                                                                                                   | 2            | 3                  | __                                                                                                                                                                                                                           | __ | 1                                                                                                                                     | 2   | __                                                                                                                                                     | __                 | 1                                                                                                                                                                                                                                                                                     | 2  | __                                                                                                                                                       | __  | 1                                                                                                                                                                                                                                 | 2                  | __                                                                                                                       | __ |
| 11                     |                      | __ __ | 1                                                                                                                                                                                                                                                   | 2            | 3                  | __                                                                                                                                                                                                                           | __ | 1                                                                                                                                     | 2   | __                                                                                                                                                     | __                 | 1                                                                                                                                                                                                                                                                                     | 2  | __                                                                                                                                                       | __  | 1                                                                                                                                                                                                                                 | 2                  | __                                                                                                                       | __ |
| 12                     |                      | __ __ | 1                                                                                                                                                                                                                                                   | 2            | 3                  | __                                                                                                                                                                                                                           | __ | 1                                                                                                                                     | 2   | __                                                                                                                                                     | __                 | 1                                                                                                                                                                                                                                                                                     | 2  | __                                                                                                                                                       | __  | 1                                                                                                                                                                                                                                 | 2                  | __                                                                                                                       | __ |
| 13                     |                      | __ __ | 1                                                                                                                                                                                                                                                   | 2            | 3                  | __                                                                                                                                                                                                                           | __ | 1                                                                                                                                     | 2   | __                                                                                                                                                     | __                 | 1                                                                                                                                                                                                                                                                                     | 2  | __                                                                                                                                                       | __  | 1                                                                                                                                                                                                                                 | 2                  | __                                                                                                                       | __ |
| 14                     |                      | __ __ | 1                                                                                                                                                                                                                                                   | 2            | 3                  | __                                                                                                                                                                                                                           | __ | 1                                                                                                                                     | 2   | __                                                                                                                                                     | __                 | 1                                                                                                                                                                                                                                                                                     | 2  | __                                                                                                                                                       | __  | 1                                                                                                                                                                                                                                 | 2                  | __                                                                                                                       | __ |
| 15                     |                      | __ __ | 1                                                                                                                                                                                                                                                   | 2            | 3                  | __                                                                                                                                                                                                                           | __ | 1                                                                                                                                     | 2   | __                                                                                                                                                     | __                 | 1                                                                                                                                                                                                                                                                                     | 2  | __                                                                                                                                                       | __  | 1                                                                                                                                                                                                                                 | 2                  | __                                                                                                                       | __ |

|                                                                                                                                                                                                              |                                                                                                                                                           |                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <p>HW1. PLEASE SHOW ME WHERE MEMBERS OF YOUR HOUSEHOLD MOST OFTEN WASH THEIR HANDS.</p>                                                                                                                      | <p>Observed..... 1</p> <p>Not observed</p> <p>Not in dwelling / plot / yard ..... 2</p> <p>No permission to see..... 3</p> <p>Other reason..... 6</p>     | <p>2 ⇒HW4</p> <p>3 ⇒HW4</p> <p>6 ⇒HW4</p> |
| <p>HW2. <i>Observe presence of water at the specific place for handwashing</i></p> <p><i>Verify by checking the tap/pump, or basin, bucket, water container or similar objects for presence of water</i></p> | <p>Water is available..... 1</p> <p>Water is not available..... 2</p>                                                                                     |                                           |
| <p>HW3. <i>Record if soap or detergent is present at the specific place for handwashing.</i></p> <p><i>Circle all that apply.</i></p>                                                                        | <p>Bar soap..... A</p> <p>Detergent (Powder / Liquid / Paste) ..... B</p> <p>Ash / Mud / Sand ..... D</p> <p>None ..... Y</p>                             | <p>} HH19</p>                             |
| <p>HW4. DO YOU HAVE ANY SOAP OR DETERGENT (<i>or other locally used cleansing agent</i>) IN YOUR HOUSEHOLD FOR WASHING HANDS?</p>                                                                            | <p>Yes..... 1</p> <p>No ..... 2</p>                                                                                                                       | <p>2⇒HH19</p>                             |
| <p>HW5. CAN YOU PLEASE SHOW IT TO ME?</p> <p><i>Record observation. Circle all that apply</i></p>                                                                                                            | <p>Bar soap..... A</p> <p>Detergent (Powder / Liquid / Paste) ..... B</p> <p>Ash / Mud / Sand ..... D</p> <p>Not able / Does not want to show ..... Y</p> |                                           |



|                               |                             |  |
|-------------------------------|-----------------------------|--|
| HH19. <i>Record the time.</i> | Hour and minutes ..... : .. |  |
|-------------------------------|-----------------------------|--|

|                                                                                                                                                                                                                                                           |                                                                                                                                                                                        |  |
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| <p>SII. WE WOULD LIKE TO CHECK WHETHER THE SALT USED IN YOUR HOUSEHOLD IS IODIZED. MAY I HAVE A SAMPLE OF THE SALT USED TO COOK MEALS IN YOUR HOUSEHOLD?</p> <p><i>Once you have tested the salt, circle number that corresponds to test outcome.</i></p> | <p>Not iodized 0 PPM ..... 1</p> <p>More than 0 PPM &amp; less than 15 PPM..... 2</p> <p>15 PPM or more ..... 3</p> <p>No salt in the house ..... 6</p> <p>Salt not tested ..... 7</p> |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>HH20. <i>Does any eligible woman age 15-49 reside in the household?</i></p> <p><i>Check household listing, column HL7 for any eligible woman.</i></p> <p><i>You should have a questionnaire with the Information Panel filled in for each eligible woman.</i></p> <p><input type="checkbox"/> <i>Yes. ⇒ Go to QUESTIONNAIRE FOR INDIVIDUAL WOMEN to administer the questionnaire to the first eligible woman.</i></p> <p><input type="checkbox"/> <i>No. ⇒ Continue.</i></p>                                                                                                                                                                                                                  |
| <p>HH21. <i>Does any child under the age of 5 reside in the household?</i></p> <p><i>Check household listing, column HL9 for any eligible child under age 5.</i></p> <p><i>You should have a questionnaire with the Information Panel filled in for each eligible child.</i></p> <p><input type="checkbox"/> <i>Yes. ⇒ Go to QUESTIONNAIRE FOR CHILDREN UNDER FIVE to administer the questionnaire to mother or caretaker of the first eligible child.</i></p> <p><input type="checkbox"/> <i>No. ⇒ End the interview by thanking the respondent for his/her cooperation. Gather together all questionnaires for this household and complete the relevant information on the cover page.</i></p> |

**Interviewer's Observations**

**Field Editor's Observations**

**Supervisor's Observations**



## B QUESTIONNAIRE FOR INDIVIDUAL WOMEN

|                                                                                                                                                                     |                                                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| <i>This questionnaire is to be administered to all women age 15 through 49 (see column HL7 of Household Listing Form). Fill in one form for each eligible woman</i> |                                                              |
| WM1. Cluster number:<br>_____                                                                                                                                       | WM2. Household number:<br>_____                              |
| WM1A. Name of District _____<br>District Code ____                                                                                                                  | WM1B. Area Code Urban..... 1, Rural.....2                    |
| WM3. Woman's name:<br>Name _____                                                                                                                                    | WM4. Woman's line number:<br>_____                           |
| WM5. Interviewer name and number:<br>Name _____                                                                                                                     | WM6. Day / Month / Year of interview:<br>____ / ____ / _____ |

*Repeat greeting if not already read to this woman:*

**WE ARE FROM (Planning and Development department, Government of Balochistan). WE ARE WORKING ON A PROJECT CONCERNED WITH FAMILY HEALTH AND EDUCATION. I WOULD LIKE TO TALK TO YOU ABOUT THESE SUBJECTS. THE INTERVIEW WILL TAKE ABOUT (number) MINUTES. ALL THE INFORMATION WE OBTAIN WILL REMAIN STRICTLY CONFIDENTIAL AND YOUR ANSWERS WILL NEVER BE SHARED WITH ANYONE OTHER THAN OUR PROJECT TEAM.**

MAY I START NOW?

- Yes, permission is given ⇒ Go to WM10 to record the time and then begin the interview.
- No, permission is not given ⇒ Complete WM7. Discuss this result with your supervisor.

|                                  |                         |
|----------------------------------|-------------------------|
| WM7. Result of woman's interview | Completed..... 1        |
|                                  | Not at home ..... 2     |
|                                  | Refused ..... 3         |
|                                  | Partly completed..... 4 |
|                                  | Incapacitated..... 5    |
|                                  | Other (specify) _____ 6 |

|                                                       |                                                        |
|-------------------------------------------------------|--------------------------------------------------------|
| WM8. Field edited by (Name and number):<br>Name _____ | WM9. Data entry clerk (Name and number):<br>Name _____ |
|-------------------------------------------------------|--------------------------------------------------------|

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|                        |                                |  |
|------------------------|--------------------------------|--|
| WM10. Record the time. | Hour and minutes ..... : ..... |  |
|------------------------|--------------------------------|--|

|                                                                                                                                                      |                                                                                                                              |       |
|------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|-------|
|                                                                                                                                                      |                                                                                                                              |       |
| WB1. IN WHAT MONTH AND YEAR WERE YOU BORN?                                                                                                           | Date of birth<br>Month .....<br>DK month ..... 98<br><br>Year .....<br>DK year ..... 9998                                    |       |
| WB2. HOW OLD ARE YOU?<br><br><i>Probe: HOW OLD WERE YOU AT YOUR LAST BIRTHDAY?</i><br><br><i>Compare and correct WB1 and/or WB2 if inconsistent</i>  | Age (in completed years) .....                                                                                               |       |
| WB3. HAVE YOU EVER ATTENDED SCHOOL OR PRESCHOOL?                                                                                                     | Yes ..... 1<br>No ..... 2                                                                                                    | 2⇒WB7 |
| WB4. WHAT IS THE HIGHEST LEVEL OF SCHOOL YOU ATTENDED?                                                                                               | Preschool ..... 0<br>Primary ..... 1<br>Middle ..... 2<br>Matric ..... 3<br>Higher ..... 4<br>Madrassa ..... 5<br>DK ..... 8 | 0⇒WB7 |
| WB5. WHAT IS THE HIGHEST GRADE YOU COMPLETED AT THAT LEVEL?<br><br><i>If less than 1 grade, enter "00"</i>                                           | Grade .....                                                                                                                  |       |
| WB6. Check WB4:<br><br><input type="checkbox"/> Secondary or higher. ⇒ Go to Next Module<br><br><input type="checkbox"/> Primary ⇒ Continue with WB7 |                                                                                                                              |       |

|                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                             |  |
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| <p>WB7. NOW I WOULD LIKE YOU TO READ THIS SENTENCE TO ME.</p> <p><i>Show sentence on the card to the respondent.</i><br/><i>If respondent cannot read whole sentence, probe:</i></p> <p>CAN YOU READ PART OF THE SENTENCE TO ME?</p> | <p>Cannot read at all ..... 1<br/> Able to read only parts of sentence ..... 2<br/> Able to read whole sentence ..... 3</p> <p>No sentence in<br/> required language Urdu.....4</p> <p>Blind / mute, visually / speech impaired ..... 5</p> |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|

|                                                                               |                                                                                                                   |                                 |
|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|---------------------------------|
| MA1. ARE YOU CURRENTLY MARRIED?                                               | Yes, currently married..... 1<br>No ..... 3                                                                       | 1⇒MA7<br>3⇒MA5                  |
|                                                                               |                                                                                                                   |                                 |
|                                                                               |                                                                                                                   |                                 |
| MA5. HAVE YOU EVER BEEN MARRIED?                                              | Yes, formerly married ..... 1<br>No ..... 3                                                                       | ⇒Domestic<br>violence<br>Module |
| MA6. WHAT IS YOUR MARITAL STATUS NOW: ARE YOU WIDOWED, DIVORCED OR SEPARATED? | Widowed ..... 1<br>Divorced ..... 2<br>Separated ..... 3                                                          |                                 |
| MA7. HAVE YOU BEEN MARRIED ONLY ONCE OR MORE THAN ONCE?                       | Only once ..... 1<br>More than once..... 2                                                                        |                                 |
| MA8. IN WHAT MONTH AND YEAR DID YOU <u>FIRST</u> MARRY?                       | Date of first marriage<br>Month .....__ __<br>DK month..... 98<br><br>Year .....__ __ __ __<br>DK year ..... 9998 | ⇒Next<br>Module                 |
| MA9. HOW OLD WERE YOU WHEN YOU STARTED LIVING WITH YOUR FIRST HUSBAND?        | Age in years.....__ __                                                                                            |                                 |

| All questions refer only to LIVE births.                                                                                                                                                                                                                         |                                                                                                                                                            |        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| CM1. NOW I WOULD LIKE TO ASK ABOUT ALL THE BIRTHS YOU HAVE HAD DURING YOUR LIFE. HAVE YOU EVER GIVEN BIRTH?                                                                                                                                                      | Yes..... 1<br>No..... 2                                                                                                                                    | 2⇒CM8  |
| CM2. WHAT WAS THE DATE OF YOUR FIRST BIRTH?<br><br>I MEAN THE VERY FIRST TIME YOU GAVE BIRTH, EVEN IF THE CHILD IS NO LONGER LIVING.<br><br><i>Skip to CM4 only if year of first birth is given. Otherwise, continue with CM3.</i>                               | Date of first birth<br>Day ..... __ __<br>DK day ..... 98<br><br>Month ..... __ __<br>DK month..... 98<br><br>Year ..... __ __ __ __<br>DK year ..... 9998 | ⇒CM4   |
| CM3. HOW MANY YEARS AGO DID YOU HAVE YOUR FIRST BIRTH?                                                                                                                                                                                                           | Completed years since first birth..... __ __                                                                                                               |        |
| CM4. DO YOU HAVE ANY SONS OR DAUGHTERS TO WHOM YOU HAVE GIVEN BIRTH WHO ARE NOW LIVING WITH YOU?                                                                                                                                                                 | Yes..... 1<br>No..... 2                                                                                                                                    | 2⇒CM6  |
| CM5. HOW MANY SONS LIVE WITH YOU?<br><br>HOW MANY DAUGHTERS LIVE WITH YOU?<br><br><i>If none, record '00'.</i>                                                                                                                                                   | Sons at home ..... __ __<br><br>Daughters at home ..... __ __                                                                                              |        |
| CM6. DO YOU HAVE ANY SONS OR DAUGHTERS TO WHOM YOU HAVE GIVEN BIRTH WHO ARE ALIVE BUT DO NOT LIVE WITH YOU?                                                                                                                                                      | Yes..... 1<br>No..... 2                                                                                                                                    | 2⇒CM8  |
| CM7. HOW MANY SONS ARE ALIVE BUT DO NOT LIVE WITH YOU?<br><br>HOW MANY DAUGHTERS ARE ALIVE BUT DO NOT LIVE WITH YOU?<br><br><i>If none, record '00'.</i>                                                                                                         | Sons elsewhere..... __ __<br><br>Daughters elsewhere ..... __ __                                                                                           |        |
| CM8. HAVE YOU EVER GIVEN BIRTH TO A BOY OR GIRL WHO WAS BORN ALIVE BUT LATER DIED?<br><br><i>If "No" probe by asking:<br/>I MEAN, TO A CHILD WHO EVER BREATHED OR CRIED OR SHOWED OTHER SIGNS OF LIFE – EVEN IF HE OR SHE LIVED ONLY A FEW MINUTES OR HOURS?</i> | Yes..... 1<br>No..... 2                                                                                                                                    | 2⇒CM10 |
| CM9. HOW MANY BOYS HAVE DIED?<br><br>HOW MANY GIRLS HAVE DIED?<br><br><i>If none, record '00'.</i>                                                                                                                                                               | Boys dead..... __ __<br><br>Girls dead ..... __ __                                                                                                         |        |
|                                                                                                                                                                                                                                                                  | Sum..... __ __                                                                                                                                             |        |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                        |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|--|
| <p>CM10. Sum answers to CM5, CM7, and CM9.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                        |  |
| <p>CM11. JUST TO MAKE SURE THAT I HAVE THIS RIGHT, YOU HAVE HAD IN TOTAL (<i>total number</i>) LIVE BIRTHS DURING YOUR LIFE. IS THIS CORRECT?</p> <p><input type="checkbox"/> Yes. Check below:</p> <p style="padding-left: 40px;"><input type="checkbox"/> No births ⇒ Go to <i>ILLNESS SYMPTOMS</i> Module</p> <p style="padding-left: 40px;"><input type="checkbox"/> One or more births ⇒ Continue with CM12</p> <p><input type="checkbox"/> No. ⇒ Check responses to CM1-CM10 and make corrections as necessary before proceeding to CM12</p>             |                                                                                                                        |  |
| <p>CM12. OF THESE (<i>total number</i>) BIRTHS YOU HAVE HAD, WHEN DID YOU DELIVER THE LAST ONE (EVEN IF HE OR SHE HAS DIED)?</p> <p>Month and year must be recorded.</p>                                                                                                                                                                                                                                                                                                                                                                                       | <p>Date of last birth</p> <p>Day ..... _ _</p> <p>DK day ..... 98</p> <p>Month ..... _ _</p> <p>Year ..... _ _ _ _</p> |  |
| <p>CM13. Check CM12: Last birth occurred within the last 2 years, that is, since (day and month of interview) in <b>2007</b></p> <p><input type="checkbox"/> No live birth in last 2 years. ⇒ Go to <i>ILLNESS SYMPTOMS</i> Module.</p> <p><input type="checkbox"/> Yes, live birth in last 2 years. ⇒ Ask for the name of the child</p> <p style="text-align: center;">Name of child _____</p> <p><i>If child has died, take special care when referring to this child by name in the following modules.</i></p> <p><i>Continue with the next module.</i></p> |                                                                                                                        |  |



*This module is to be administered to all women with a live birth in the 2 years preceding date of interview. Check child mortality module CM13 and record name of last-born child here \_\_\_\_\_. Use this child's name in the following questions, where indicated.*

|                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                    |     |    |                     |   |   |                    |   |   |                   |   |   |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----|----|---------------------|---|---|--------------------|---|---|-------------------|---|---|--|
| MN1. DID YOU SEE ANYONE FOR ANTENATAL CARE DURING YOUR PREGNANCY WITH (name)?                                                                                                                                                         | Yes ..... 1<br>No ..... 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2⇒MN5              |     |    |                     |   |   |                    |   |   |                   |   |   |  |
| MN2. WHOM DID YOU SEE?<br><br><i>Probe:</i><br>ANYONE ELSE?<br><br><i>Probe for the type of person seen and circle all answers given.</i>                                                                                             | Health professional:<br>Doctor ..... A<br>Nurse / Midwife ..... B<br>Lady health visitor ..... C<br>Lady health worker ..... D<br>Other person<br>Traditional birth attendant ..... F<br>Relative/friend ..... G<br><br>Other (specify) ..... X                                                                                                                                                                                                                                          |                    |     |    |                     |   |   |                    |   |   |                   |   |   |  |
| MN3. HOW MANY TIMES DID YOU RECEIVE ANTENATAL CARE DURING THIS PREGNANCY?                                                                                                                                                             | Number of times .....<br><br>DK ..... 98                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                    |     |    |                     |   |   |                    |   |   |                   |   |   |  |
| MN4. AS PART OF YOUR ANTENATAL CARE DURING THIS PREGNANCY, WERE ANY OF THE FOLLOWING DONE AT LEAST ONCE:<br><br>[A] WAS YOUR BLOOD PRESSURE MEASURED?<br><br>[B] DID YOU GIVE A URINE SAMPLE?<br><br>[C] DID YOU GIVE A BLOOD SAMPLE? | <table border="0"> <tr> <td></td> <td style="text-align: right;">Yes</td> <td style="text-align: right;">No</td> </tr> <tr> <td>Blood pressure.....</td> <td style="text-align: right;">1</td> <td style="text-align: right;">2</td> </tr> <tr> <td>Urine sample .....</td> <td style="text-align: right;">1</td> <td style="text-align: right;">2</td> </tr> <tr> <td>Blood sample.....</td> <td style="text-align: right;">1</td> <td style="text-align: right;">2</td> </tr> </table> |                    | Yes | No | Blood pressure..... | 1 | 2 | Urine sample ..... | 1 | 2 | Blood sample..... | 1 | 2 |  |
|                                                                                                                                                                                                                                       | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | No                 |     |    |                     |   |   |                    |   |   |                   |   |   |  |
| Blood pressure.....                                                                                                                                                                                                                   | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2                  |     |    |                     |   |   |                    |   |   |                   |   |   |  |
| Urine sample .....                                                                                                                                                                                                                    | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2                  |     |    |                     |   |   |                    |   |   |                   |   |   |  |
| Blood sample.....                                                                                                                                                                                                                     | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2                  |     |    |                     |   |   |                    |   |   |                   |   |   |  |
| MN5. DO YOU HAVE A CARD OR OTHER DOCUMENT WITH YOUR OWN IMMUNIZATIONS LISTED?<br><br>MAY I SEE IT PLEASE?<br><br><i>If a card is presented, use it to assist with answers to the following questions.</i>                             | Yes (card seen)..... 1<br>Yes (card not seen)..... 2<br>No ..... 3<br><br>DK ..... 8                                                                                                                                                                                                                                                                                                                                                                                                     |                    |     |    |                     |   |   |                    |   |   |                   |   |   |  |
| MN6. WHEN YOU WERE PREGNANT WITH (name), DID YOU RECEIVE ANY INJECTION IN THE ARM OR SHOULDER TO PREVENT THE BABY FROM GETTING TETANUS, THAT IS CONVULSIONS AFTER BIRTH?                                                              | Yes ..... 1<br>No ..... 2<br><br>DK ..... 8                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2⇒MN9<br><br>8⇒MN9 |     |    |                     |   |   |                    |   |   |                   |   |   |  |
| MN7. HOW MANY TIMES DID YOU RECEIVE THIS TETANUS INJECTION DURING YOUR PREGNANCY WITH (name)?<br><br><i>If 7 or more times, record '7'.</i>                                                                                           | Number of times .....<br><br>DK ..... 8                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 8⇒MN9              |     |    |                     |   |   |                    |   |   |                   |   |   |  |

MN8. How many tetanus injections during last pregnancy were reported in MN7?

At least two tetanus injections during last pregnancy. ⇒ Go to MN12

Fewer than two tetanus injections during last pregnancy. ⇒ Continue with MN9

|                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                         |                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| MN9. DID YOU RECEIVE ANY TETANUS INJECTION AT ANY TIME BEFORE YOUR PREGNANCY WITH (name), EITHER TO PROTECT YOURSELF OR ANOTHER BABY?                                                                                                                                                          | Yes..... 1<br>No ..... 2<br>DK ..... 8                                                                                                                                                                                                                                  | 2⇒MN12<br>8⇒MN12 |
| MN10. HOW MANY TIMES DID YOU RECEIVE A TETANUS INJECTION BEFORE YOUR PREGNANCY WITH (name)?<br><br><i>If 7 or more times, record '7'.</i>                                                                                                                                                      | Number of times .....<br>DK ..... 8                                                                                                                                                                                                                                     | 8⇒MN12           |
| MN11. HOW MANY YEARS AGO DID YOU RECEIVE THE LAST TETANUS INJECTION BEFORE YOUR PREGNANCY WITH (name)?                                                                                                                                                                                         | Years ago.....                                                                                                                                                                                                                                                          |                  |
| MN12. Check MN1 for presence of antenatal care during this pregnancy:<br><br><input type="checkbox"/> Yes, antenatal care received. ⇒ Continue with MN13<br><br><input type="checkbox"/> No antenatal care received ⇒ Go to MN17                                                               |                                                                                                                                                                                                                                                                         |                  |
| MN13. DURING ANY OF THESE ANTENATAL VISITS FOR THE PREGNANCY, DID YOU TAKE ANY MEDICINE IN ORDER TO PREVENT YOU FROM GETTING MALARIA?                                                                                                                                                          | Yes..... 1<br>No ..... 2<br>DK ..... 8                                                                                                                                                                                                                                  | 2⇒MN17<br>8⇒MN17 |
| MN14. WHICH MEDICINES DID YOU TAKE TO PREVENT MALARIA?<br><br><i>Circle all medicines taken. If type of medicine is not determined, show typical anti-malarial to respondent.</i>                                                                                                              | SP / Fansidar ..... A<br>Chloroquine ..... B<br><br>Other (specify) ..... X<br>DK ..... Z                                                                                                                                                                               |                  |
| MN15. Check MN14 for medicine taken:<br><br><input type="checkbox"/> SP / Fansidar taken. ⇒ Continue with MN16<br><br><input type="checkbox"/> SP / Fansidar not taken. ⇒ Go to MN17                                                                                                           |                                                                                                                                                                                                                                                                         |                  |
| MN16. DURING THIS PREGNANCY, HOW MANY TIMES DID YOU TAKE SP/ FANSIDAR?                                                                                                                                                                                                                         | Number of times.....<br>DK ..... 98                                                                                                                                                                                                                                     |                  |
| MN17. WHO ASSISTED WITH THE DELIVERY OF (name)?<br><br><i>Probe:<br/>ANYONE ELSE?</i><br><br><i>Probe for the type of person assisting and circle all answers given.</i><br><br><i>If respondent says no one assisted, probe to determine whether any adults were present at the delivery.</i> | Health professional:<br>Doctor ..... A<br>Nurse / Midwife ..... B<br>Lady health visitor ..... C<br>Lady health worker ..... F<br>Other person<br>Traditional birth attendant ..... G<br><br>Relative / Friend ..... H<br><br>Other (specify) ..... X<br>No one ..... Y |                  |

|                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| <p>MN18. WHERE DID YOU GIVE BIRTH TO <i>(name)</i>?</p> <p><i>Probe to identify the type of source.</i></p> <p><i>If unable to determine whether public or private, write the name of the place.</i></p> <p>_____</p> <p><i>(Name of place)</i></p> | <p>Home</p> <p>Your home ..... 11</p> <p>Other home ..... 12</p> <p>Public sector</p> <p>Govt. hospital.....21</p> <p>Govt. clinic / health centre .....22</p> <p>Other public (<i>specify</i>) _____ 26</p> <p>Private Medical Sector</p> <p>Private hospital .....31</p> <p>Private clinic .....32</p> <p>Private maternity home.....33</p> <p>Other private</p> <p>medical (<i>specify</i>) _____ 36</p> <p>Other (<i>specify</i>) _____ 96</p> | <p>11⇒MN20</p> <p>12⇒MN20</p> <p>96⇒MN20</p> |
| <p>MN20. WHEN <i>(name)</i> WAS BORN, WAS HE/SHE VERY LARGE, LARGER THAN AVERAGE, AVERAGE, SMALLER THAN AVERAGE, OR VERY SMALL?</p>                                                                                                                 | <p>Very large ..... 1</p> <p>Larger than average..... 2</p> <p>Average ..... 3</p> <p>Smaller than average..... 4</p> <p>Very small ..... 5</p> <p>DK ..... 8</p>                                                                                                                                                                                                                                                                                  |                                              |
| <p>MN21. WAS <i>(name)</i> WEIGHED AT BIRTH?</p>                                                                                                                                                                                                    | <p>Yes..... 1</p> <p>No ..... 2</p> <p>DK ..... 8</p>                                                                                                                                                                                                                                                                                                                                                                                              | <p>2⇒MN23</p> <p>8⇒MN23</p>                  |
| <p>MN22. HOW MUCH DID <i>(name)</i> WEIGH?</p> <p><i>Record weight from health card, if available.</i></p>                                                                                                                                          | <p>From card ..... 1 (kg) __ . __ __ __</p> <p>From recall ..... 2 (kg) __ . __ __ __</p> <p>DK ..... 99998</p>                                                                                                                                                                                                                                                                                                                                    |                                              |
| <p>MN23. HAS YOUR MENSTRUAL PERIOD RETURNED SINCE THE BIRTH OF <i>(name)</i>?</p>                                                                                                                                                                   | <p>Yes..... 1</p> <p>No ..... 2</p>                                                                                                                                                                                                                                                                                                                                                                                                                |                                              |
| <p>MN24. DID YOU EVER BREASTFEED <i>(name)</i>?</p>                                                                                                                                                                                                 | <p>Yes..... 1</p> <p>No ..... 2</p>                                                                                                                                                                                                                                                                                                                                                                                                                | <p>2⇒Next Module</p>                         |

|                                                                                                                                  |                                                                                                                                                                                                                                                                                                            |                           |
|----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| <p>MN26. IN THE FIRST THREE DAYS AFTER DELIVERY,<br/> WAS (<i>name</i>) GIVEN ANYTHING TO DRINK OTHER<br/> THAN BREAST MILK?</p> | <p>Yes ..... 1<br/> No ..... 2</p>                                                                                                                                                                                                                                                                         | <p>2⇒Next<br/> Module</p> |
| <p>MN27. WHAT WAS (<i>name</i>) GIVEN TO DRINK?</p> <p><i>Probe:</i><br/> ANYTHING ELSE?</p>                                     | <p>Milk (other than breast milk)..... A<br/> Plain water..... B<br/> Sugar or glucose water..... C<br/> Gripe water..... D<br/> Sugar-salt-water solution .....E<br/> Fruit juice .....F<br/> Infant formula..... G<br/> Tea / Infusions.....H<br/> Honey .....I</p> <p>Other (<i>specify</i>) _____ X</p> |                           |

IS1. Check Household Listing, column HL9

Is the respondent the mother or caretaker of any child under age 5?

Yes. ⇒ Continue with IS2.

No. ⇒ Go to Next Module.

IS2. SOMETIMES CHILDREN HAVE SEVERE ILLNESSES AND SHOULD BE TAKEN IMMEDIATELY TO A HEALTH FACILITY. WHAT TYPES OF SYMPTOMS WOULD CAUSE YOU TO TAKE YOUR CHILD TO A HEALTH FACILITY RIGHT AWAY?

*Probe:*

ANY OTHER SYMPTOMS?

Keep asking for more signs or symptoms until the mother/caretaker cannot recall any additional symptoms.

Circle all symptoms mentioned, but do NOT prompt with any suggestions

Child not able to drink or breastfeed ..... A  
Child becomes sicker ..... B  
Child develops a fever ..... C  
Child has fast breathing ..... D  
Child has difficult breathing ..... E  
Child has blood in stool ..... F  
Child is drinking poorly ..... G

Other (*specify*) \_\_\_\_\_ X

Other (*specify*) \_\_\_\_\_ Y

Other (*specify*) \_\_\_\_\_ Z

|                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                    |                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <p>CP1. I WOULD LIKE TO TALK WITH YOU ABOUT ANOTHER SUBJECT – FAMILY PLANNING.</p> <p>ARE YOU PREGNANT NOW?</p>                                                                 | <p>Yes, currently pregnant..... 1</p> <p>No ..... 2</p> <p>Unsure or DK ..... 8</p>                                                                                                                                                                                                                                                                                                                                                | <p>1⇒Next Module</p> |
| <p>CP2. COUPLES USE VARIOUS WAYS OR METHODS TO DELAY OR AVOID A PREGNANCY.</p> <p>ARE YOU CURRENTLY DOING SOMETHING OR USING ANY METHOD TO DELAY OR AVOID GETTING PREGNANT?</p> | <p>Yes..... 1</p> <p>No ..... 2</p>                                                                                                                                                                                                                                                                                                                                                                                                | <p>2⇒Next Module</p> |
| <p>CP3. WHAT ARE YOU DOING TO DELAY OR AVOID A PREGNANCY?</p> <p>Do not prompt.</p> <p>If more than one method is mentioned, circle each one.</p>                               | <p>Female sterilization..... A</p> <p>Male sterilization ..... B</p> <p>IUD ..... C</p> <p>Injectables ..... D</p> <p>Implants.....E</p> <p>Pill .....F</p> <p>Male condom..... G</p> <p>Female condom..... H</p> <p>Diaphragm..... I</p> <p>Foam / Jelly ..... J</p> <p>Lactational amenorrhoea method (LAM)..... K</p> <p>Periodic abstinence/Rhythm ..... L</p> <p>Withdrawal ..... M</p> <p>Other (<i>specify</i>) _____ X</p> |                      |

DV1. SOMETIMES A HUSBAND IS ANNOYED OR ANGERED BY THINGS THAT HIS WIFE DOES. IN YOUR OPINION, IS A HUSBAND JUSTIFIED IN HITTING OR BEATING HIS WIFE IN THE FOLLOWING SITUATIONS:

[A] IF SHE GOES OUT WITHOUT TELLING HIM?

[B] IF SHE NEGLECTS THE CHILDREN?

[C] IF SHE ARGUES WITH HIM?

[D] IF SHE REFUSES TO HAVE SEX WITH HIM?

[E] IF SHE BURNS THE FOOD?

|                               | Yes | No | DK |
|-------------------------------|-----|----|----|
| Goes out without telling..... | 1   | 2  | 8  |
| Neglects children.....        | 1   | 2  | 8  |
| Argues .....                  | 1   | 2  | 8  |
| Refuses sex.....              | 1   | 2  | 8  |
| Burns food.....               | 1   | 2  | 8  |

| HA1. NOW I WOULD LIKE TO TALK WITH YOU ABOUT SOMETHING ELSE.<br><br>HAVE YOU EVER HEARD OF AN ILLNESS CALLED AIDS?                                          | Yes..... 1<br>No ..... 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2⇒WM11 |     |    |    |                       |   |   |   |                       |   |   |   |                        |   |   |   |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----|----|----|-----------------------|---|---|---|-----------------------|---|---|---|------------------------|---|---|---|--|
| HA3. CAN PEOPLE GET THE AIDS VIRUS BECAUSE OF WITCHCRAFT OR OTHER SUPERNATURAL MEANS?                                                                       | Yes..... 1<br>No ..... 2<br>DK ..... 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |     |    |    |                       |   |   |   |                       |   |   |   |                        |   |   |   |  |
| HA5. CAN PEOPLE GET THE AIDS VIRUS FROM MOSQUITO BITES?                                                                                                     | Yes..... 1<br>No ..... 2<br>DK ..... 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |     |    |    |                       |   |   |   |                       |   |   |   |                        |   |   |   |  |
| HA6. CAN PEOPLE GET THE AIDS VIRUS BY SHARING FOOD WITH A PERSON WHO HAS AIDS?                                                                              | Yes..... 1<br>No ..... 2<br>DK ..... 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |     |    |    |                       |   |   |   |                       |   |   |   |                        |   |   |   |  |
| HA7. IS IT POSSIBLE FOR A HEALTHY-LOOKING PERSON TO HAVE THE AIDS VIRUS?                                                                                    | Yes..... 1<br>No ..... 2<br>DK ..... 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |     |    |    |                       |   |   |   |                       |   |   |   |                        |   |   |   |  |
| HA8. CAN THE VIRUS THAT CAUSES AIDS BE TRANSMITTED FROM A MOTHER TO HER BABY:<br><br>[A] DURING PREGNANCY?<br>[B] DURING DELIVERY?<br>[C] BY BREASTFEEDING? | <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">Yes</th> <th style="text-align: center;">No</th> <th style="text-align: center;">DK</th> </tr> </thead> <tbody> <tr> <td>During pregnancy.....</td> <td style="text-align: center;">1</td> <td style="text-align: center;">2</td> <td style="text-align: center;">8</td> </tr> <tr> <td>During delivery .....</td> <td style="text-align: center;">1</td> <td style="text-align: center;">2</td> <td style="text-align: center;">8</td> </tr> <tr> <td>By breastfeeding .....</td> <td style="text-align: center;">1</td> <td style="text-align: center;">2</td> <td style="text-align: center;">8</td> </tr> </tbody> </table> |        | Yes | No | DK | During pregnancy..... | 1 | 2 | 8 | During delivery ..... | 1 | 2 | 8 | By breastfeeding ..... | 1 | 2 | 8 |  |
|                                                                                                                                                             | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | No     | DK  |    |    |                       |   |   |   |                       |   |   |   |                        |   |   |   |  |
| During pregnancy.....                                                                                                                                       | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2      | 8   |    |    |                       |   |   |   |                       |   |   |   |                        |   |   |   |  |
| During delivery .....                                                                                                                                       | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2      | 8   |    |    |                       |   |   |   |                       |   |   |   |                        |   |   |   |  |
| By breastfeeding .....                                                                                                                                      | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2      | 8   |    |    |                       |   |   |   |                       |   |   |   |                        |   |   |   |  |
| HA9. IN YOUR OPINION, IF A FEMALE TEACHER HAS THE AIDS VIRUS BUT IS NOT SICK, SHOULD SHE BE ALLOWED TO CONTINUE TEACHING IN SCHOOL?                         | Yes..... 1<br>No ..... 2<br>DK / Not sure / Depends..... 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |     |    |    |                       |   |   |   |                       |   |   |   |                        |   |   |   |  |
| HA10. WOULD YOU BUY FRESH VEGETABLES FROM A SHOPKEEPER OR VENDOR IF YOU KNEW THAT THIS PERSON HAD THE AIDS VIRUS?                                           | Yes..... 1<br>No ..... 2<br>DK / Not sure / Depends..... 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |     |    |    |                       |   |   |   |                       |   |   |   |                        |   |   |   |  |
| HA11. IF A MEMBER OF YOUR FAMILY GOT INFECTED WITH THE AIDS VIRUS, WOULD YOU WANT IT TO REMAIN A SECRET?                                                    | Yes..... 1<br>No ..... 2<br>DK / Not sure / Depends..... 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |     |    |    |                       |   |   |   |                       |   |   |   |                        |   |   |   |  |
| HA12. IF A MEMBER OF YOUR FAMILY BECAME SICK WITH AIDS, WOULD YOU BE WILLING TO CARE FOR HER OR HIM IN YOUR OWN HOUSEHOLD?                                  | Yes..... 1<br>No ..... 2<br>DK / Not sure / Depends..... 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |     |    |    |                       |   |   |   |                       |   |   |   |                        |   |   |   |  |



|                               |                                    |  |
|-------------------------------|------------------------------------|--|
| WM11. <i>Record the time.</i> | Hour and minutes ..... ____ : ____ |  |
|-------------------------------|------------------------------------|--|

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>WM12. <i>Is the respondent the mother or caretaker of any child age 0-4 living in this household?</i><br/> <i>Check household listing, column HL8.</i></p> <p><input type="checkbox"/> <i>Yes. ⇒ Go to QUESTIONNAIRE FOR CHILDREN UNDER FIVE for that child and start the interview with this respondent.</i></p> <p><input type="checkbox"/> <i>No. ⇒ End the interview with this respondent by thanking her for her cooperation.</i><br/> <i>Check for the presence of any other eligible woman or children under-5 in the household.</i></p> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**Interviewer's Observations**

**Field Editor's Observations**

**Supervisor's Observations**



# C QUESTIONNAIRE FOR CHILDREN UNDER FIVE

*This questionnaire is to be administered to all mothers or caretakers (see Household Listing Form, column HL9) who care for a child that lives with them and is under the age of 5 years (see Household Listing Form, column HL6). A separate questionnaire should be used for each eligible child.*

|                                                      |                                                                  |
|------------------------------------------------------|------------------------------------------------------------------|
| UF1. Cluster number:<br><br>_____                    | UF2. Household number:<br><br>_____                              |
| WM1A. Name of District _____<br>District Code ____ _ | WM1B. Area Code Urban..... 1, Rural.....2                        |
| UF3. Child's name:<br>Name _____                     | UF4. Child's line number:<br><br>_____                           |
| UF5. Mother's / Caretaker's name:<br>Name _____      | UF6. Mother's / Caretaker's line number:<br><br>_____            |
| UF7. Interviewer name and number:<br>Name _____      | UF8. Day / Month / Year of interview:<br><br>____ / ____ / _____ |

Repeat greeting if not already read to this respondent:

WE ARE FROM PLANNING & DEVELOPMENT DEPARTMENT, GOVERNMENT OF BALOHCISTAN. WE ARE WORKING ON A PROJECT CONCERNED WITH FAMILY HEALTH AND EDUCATION. I WOULD LIKE TO TALK TO YOU ABOUT (*name*)'S HEALTH AND WELL-BEING. THE INTERVIEW WILL TAKE ABOUT (*number*) MINUTES. ALL THE INFORMATION WE OBTAIN WILL REMAIN STRICTLY CONFIDENTIAL AND YOUR ANSWERS WILL NEVER BE SHARED WITH ANYONE OTHER THAN OUR PROJECT TEAM.

MAY I START NOW?

- Yes, permission is given ⇒ Go to UF12 to record the time and then begin the interview.
- No, permission is not given ⇒ Complete UF9. Discuss this result with your supervisor

|                                                                                              |                                                                                                                                                        |
|----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| UF9. Result of interview for children under 5<br><br><i>Codes refer to mother/caretaker.</i> | Completed ..... 1<br>Not at home ..... 2<br>Refused ..... 3<br>Partly completed..... 4<br>Incapacitated..... 5<br><br>Other ( <i>specify</i> ) _____ 6 |
| UF10. Field edited by (Name and number):                                                     | UF11. Data entry clerk (Name and number):                                                                                                              |

|            |            |
|------------|------------|
| Name _____ | Name _____ |
|------------|------------|

|                               |                             |  |
|-------------------------------|-----------------------------|--|
| UF12. <i>Record the time.</i> | Hour and minutes ..... : .. |  |
|-------------------------------|-----------------------------|--|

|                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                   |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|--|
| <p>AG1. NOW I WOULD LIKE TO ASK YOU SOME QUESTIONS ABOUT THE HEALTH OF (<i>name</i>).</p> <p>IN WHAT MONTH AND YEAR WAS (<i>name</i>) BORN?</p> <p><i>Probe:</i><br/>WHAT IS HIS / HER BIRTHDAY?</p> <p>If the mother/caretaker knows the exact birth date, also enter the day; otherwise, circle 98 for day</p> <p>Month and year must be recorded.</p> | <p>Date of birth</p> <p>Day ..... _ _</p> <p>DK day ..... 98</p> <p>Month ..... _ _</p> <p>Year ..... _ _ _ _</p> |  |
| <p>AG2. HOW OLD IS (<i>name</i>)?</p> <p><i>Probe:</i><br/>HOW OLD WAS (<i>name</i>) AT HIS / HER LAST BIRTHDAY?</p> <p>Record age in completed years.</p> <p>Record '0' if less than 1 year.</p> <p>Compare and correct AG1 and/or AG2 if inconsistent.</p>                                                                                             | <p>Age (in completed years) ..... _</p>                                                                           |  |

|                                                                                                       |                                                                                                                                                                                                                                                       |                                                    |
|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| <p>BR1. DOES (<i>name</i>) HAVE A BIRTH CERTIFICATE?</p> <p><i>If yes, ask:</i><br/>MAY I SEE IT?</p> | <p>Yes, seen..... 1</p> <p>Yes, not seen.....2</p> <p>No .....3</p> <p>DK.....8</p>                                                                                                                                                                   | <p>1⇒Next<br/>Module</p> <p>2⇒ Next<br/>Module</p> |
| <p>BR2. HAS (<i>name</i>)’S BIRTH BEEN REGISTERED WITH THE CIVIL AUTHORITIES?</p>                     | <p>Yes ..... 1</p> <p>No .....2</p> <p>DK.....8</p>                                                                                                                                                                                                   | <p>1⇒Next<br/>Module</p>                           |
| <p>BR3. DO YOU KNOW HOW TO REGISTER YOUR CHILD’S BIRTH?</p>                                           | <p>Yes ..... 1</p> <p>No .....2</p>                                                                                                                                                                                                                   | <p>2⇒Next<br/>Module</p>                           |
| <p>BR4. WHY IS (<i>name</i>)’S BIRTH NOT REGISTERED?</p>                                              | <p>Costs too much ..... 1</p> <p>Must travel too far .....2</p> <p>Did not know it should be registered .....3</p> <p>Did not want to pay fine.....4</p> <p>Does not know where to register .....5</p> <p>Other (specify) _____ 6</p> <p>DK.....8</p> |                                                    |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                  |                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| <p>EC1. HOW MANY CHILDREN’S BOOKS OR PICTURE BOOKS DO YOU HAVE FOR <i>(name)</i>?</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <p>None .....00</p> <p>Number of children’s books.....0 __</p> <p>Ten or more books .....10</p>                                                                  |                           |
| <p>EC2. I AM INTERESTED IN LEARNING ABOUT THE THINGS THAT <i>(name)</i> PLAYS WITH WHEN HE/SHE IS AT HOME.</p> <p>DOES HE/SHE PLAY WITH:</p> <p>[A] HOMEMADE TOYS (SUCH AS DOLLS, CARS, OR OTHER TOYS MADE AT HOME)?</p> <p>[B] TOYS FROM A SHOP OR MANUFACTURED TOYS?</p> <p>[C] HOUSEHOLD OBJECTS (SUCH AS BOWLS OR POTS) OR OBJECTS FOUND OUTSIDE (SUCH AS STICKS, ROCKS, ANIMAL SHELLS OR LEAVES)?</p> <p>If the respondent says “YES” to the categories above, then probe to learn specifically what the child plays with to ascertain the response</p> | <p style="text-align: right;">Y N DK</p> <p>Homemade toys.....1 2 8</p> <p>Toys from a shop.....1 2 8</p> <p>Household objects or outside objects .....1 2 8</p> |                           |
| <p>EC3. SOMETIMES ADULTS TAKING CARE OF CHILDREN HAVE TO LEAVE THE HOUSE TO GO SHOPPING, WASH CLOTHES, OR FOR OTHER REASONS AND HAVE TO LEAVE YOUNG CHILDREN.</p> <p>ON HOW MANY DAYS IN THE PAST WEEK WAS <i>(name)</i>:</p> <p>[A] LEFT ALONE FOR MORE THAN AN HOUR?</p> <p>[B] LEFT IN THE CARE OF ANOTHER CHILD (THAT IS, SOMEONE LESS THAN 10 YEARS OLD) FOR MORE THAN AN HOUR?</p> <p>If ‘none’ enter’ 00’. If ‘don’t know’ enter’ 98’</p>                                                                                                             | <p>Number of days left alone for more than an hour.....__ __</p> <p>Number of days left with other child for more than an hour.....__ __</p>                     |                           |
| <p>EC4. Check AG2: Age of child</p> <p><input type="checkbox"/> Child age 3 or 4 ⇒ Continue with EC5</p> <p><input type="checkbox"/> Child age 0, 1 or 2 ⇒ Go to Next Module</p>                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                  |                           |
| <p>EC5. DOES <i>(name)</i> ATTEND ANY ORGANIZED LEARNING OR EARLY CHILDHOOD EDUCATION PROGRAMME, SUCH AS A PRIVATE OR GOVERNMENT FACILITY, INCLUDING KINDERGARTEN OR COMMUNITY CHILD CARE?</p>                                                                                                                                                                                                                                                                                                                                                               | <p>Yes ..... 1</p> <p>No .....2</p> <p>DK ..... 8</p>                                                                                                            | <p>2⇒EC7</p> <p>8⇒EC7</p> |
| <p>EC6. WITHIN THE LAST SEVEN DAYS, ABOUT HOW MANY HOURS DID <i>(name)</i> ATTEND?</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <p>Number of hours.....__ __</p>                                                                                                                                 |                           |

| <p>EC7. IN THE PAST 3 DAYS, DID YOU OR ANY HOUSEHOLD MEMBER OVER 15 YEARS OF AGE ENGAGE IN ANY OF THE FOLLOWING ACTIVITIES WITH (<i>name</i>):</p> <p><i>If yes, ask:</i><br/>WHO ENGAGED IN THIS ACTIVITY WITH (<i>name</i>)?</p> <p><i>Circle all that apply.</i></p> <p>[A] READ BOOKS TO OR LOOKED AT PICTURE BOOKS WITH (<i>name</i>)?</p> <p>[B] TOLD STORIES TO (<i>name</i>)?</p> <p>[C] SANG SONGS TO (<i>name</i>) OR WITH (<i>name</i>), INCLUDING LULLABYS?</p> <p>[D] TOOK (<i>name</i>) OUTSIDE THE HOME, COMPOUND, YARD OR ENCLOSURE?</p> <p>[E] PLAYED WITH (<i>name</i>)?</p> <p>[F] NAMED, COUNTED, OR DREW THINGS TO OR WITH (<i>name</i>)?</p> | <table border="1"> <thead> <tr> <th></th> <th>Mother</th> <th>Father</th> <th>Other</th> <th>No one</th> </tr> </thead> <tbody> <tr> <td>Read books</td> <td>A</td> <td>B</td> <td>X</td> <td>Y</td> </tr> <tr> <td>Told stories</td> <td>A</td> <td>B</td> <td>X</td> <td>Y</td> </tr> <tr> <td>Sang songs</td> <td>A</td> <td>B</td> <td>X</td> <td>Y</td> </tr> <tr> <td>Took outside</td> <td>A</td> <td>B</td> <td>X</td> <td>Y</td> </tr> <tr> <td>Played with</td> <td>A</td> <td>B</td> <td>X</td> <td>Y</td> </tr> <tr> <td>Named/counted</td> <td>A</td> <td>B</td> <td>X</td> <td>Y</td> </tr> </tbody> </table> |        | Mother | Father | Other | No one | Read books | A | B | X | Y | Told stories | A | B | X | Y | Sang songs | A | B | X | Y | Took outside | A | B | X | Y | Played with | A | B | X | Y | Named/counted | A | B | X | Y |  |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Mother                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Father | Other  | No one |       |        |            |   |   |   |   |              |   |   |   |   |            |   |   |   |   |              |   |   |   |   |             |   |   |   |   |               |   |   |   |   |  |
| Read books                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | B      | X      | Y      |       |        |            |   |   |   |   |              |   |   |   |   |            |   |   |   |   |              |   |   |   |   |             |   |   |   |   |               |   |   |   |   |  |
| Told stories                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | B      | X      | Y      |       |        |            |   |   |   |   |              |   |   |   |   |            |   |   |   |   |              |   |   |   |   |             |   |   |   |   |               |   |   |   |   |  |
| Sang songs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | B      | X      | Y      |       |        |            |   |   |   |   |              |   |   |   |   |            |   |   |   |   |              |   |   |   |   |             |   |   |   |   |               |   |   |   |   |  |
| Took outside                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | B      | X      | Y      |       |        |            |   |   |   |   |              |   |   |   |   |            |   |   |   |   |              |   |   |   |   |             |   |   |   |   |               |   |   |   |   |  |
| Played with                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | B      | X      | Y      |       |        |            |   |   |   |   |              |   |   |   |   |            |   |   |   |   |              |   |   |   |   |             |   |   |   |   |               |   |   |   |   |  |
| Named/counted                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | B      | X      | Y      |       |        |            |   |   |   |   |              |   |   |   |   |            |   |   |   |   |              |   |   |   |   |             |   |   |   |   |               |   |   |   |   |  |
| <p>EC8. I WOULD LIKE TO ASK YOU SOME QUESTIONS ABOUT THE HEALTH AND DEVELOPMENT OF YOUR CHILD. CHILDREN DO NOT ALL DEVELOP AND LEARN AT THE SAME RATE. FOR EXAMPLE, SOME WALK EARLIER THAN OTHERS. THESE QUESTIONS ARE RELATED TO SEVERAL ASPECTS OF YOUR CHILD'S DEVELOPMENT.</p> <p>CAN (<i>name</i>) IDENTIFY OR NAME AT LEAST TEN LETTERS OF THE ALPHABET?</p>                                                                                                                                                                                                                                                                                                 | <p>Yes ..... 1</p> <p>No ..... 2</p> <p>DK ..... 8</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        |        |        |       |        |            |   |   |   |   |              |   |   |   |   |            |   |   |   |   |              |   |   |   |   |             |   |   |   |   |               |   |   |   |   |  |
| <p>EC9. CAN (<i>name</i>) READ AT LEAST FOUR SIMPLE, POPULAR WORDS?</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <p>Yes ..... 1</p> <p>No ..... 2</p> <p>DK ..... 8</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        |        |        |       |        |            |   |   |   |   |              |   |   |   |   |            |   |   |   |   |              |   |   |   |   |             |   |   |   |   |               |   |   |   |   |  |
| <p>EC10. DOES (<i>name</i>) KNOW THE NAME AND RECOGNIZE THE SYMBOL OF ALL NUMBERS FROM 1 TO 10?</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <p>Yes ..... 1</p> <p>No ..... 2</p> <p>DK ..... 8</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        |        |        |       |        |            |   |   |   |   |              |   |   |   |   |            |   |   |   |   |              |   |   |   |   |             |   |   |   |   |               |   |   |   |   |  |
| <p>EC11. CAN (<i>name</i>) PICK UP A SMALL OBJECT WITH TWO FINGERS, LIKE A STICK OR A ROCK FROM THE GROUND?</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <p>Yes ..... 1</p> <p>No ..... 2</p> <p>DK ..... 8</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        |        |        |       |        |            |   |   |   |   |              |   |   |   |   |            |   |   |   |   |              |   |   |   |   |             |   |   |   |   |               |   |   |   |   |  |
| <p>EC12. IS (<i>name</i>) SOMETIMES TOO SICK TO PLAY?</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <p>Yes ..... 1</p> <p>No ..... 2</p> <p>DK ..... 8</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        |        |        |       |        |            |   |   |   |   |              |   |   |   |   |            |   |   |   |   |              |   |   |   |   |             |   |   |   |   |               |   |   |   |   |  |



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| EC13. DOES ( <i>name</i> ) FOLLOW SIMPLE DIRECTIONS ON HOW TO DO SOMETHING CORRECTLY? | Yes ..... 1<br>No ..... 2<br><br>DK ..... 8 |  |
| EC14. WHEN GIVEN SOMETHING TO DO, IS ( <i>name</i> ) ABLE TO DO IT INDEPENDENTLY?     | Yes ..... 1<br>No ..... 2<br><br>DK ..... 8 |  |
| EC15. DOES ( <i>name</i> ) GET ALONG WELL WITH OTHER CHILDREN?                        | Yes ..... 1<br>No ..... 2<br><br>DK ..... 8 |  |
| EC16. DOES ( <i>name</i> ) KICK, BITE, OR HIT OTHER CHILDREN OR ADULTS?               | Yes ..... 1<br>No ..... 2<br><br>DK ..... 8 |  |
| EC17. DOES ( <i>name</i> ) GET DISTRACTED EASILY?                                     | Yes ..... 1<br>No ..... 2<br><br>DK ..... 8 |  |

|                                                                                                                                                                                                                                                                                                         |                                                    |                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|-------------------------|
| <p>BF1. HAS (<i>name</i>) EVER BEEN BREASTFED?</p>                                                                                                                                                                                                                                                      | <p>Yes ..... 1<br/> No ..... 2<br/> DK ..... 8</p> | <p>2⇒BF3<br/> 8⇒BF3</p> |
| <p>BF2. IS HE/SHE STILL BEING BREASTFED?</p>                                                                                                                                                                                                                                                            | <p>Yes ..... 1<br/> No ..... 2<br/> DK ..... 8</p> |                         |
| <p>BF3. I WOULD LIKE TO ASK YOU ABOUT LIQUIDS THAT (<i>name</i>) MAY HAVE HAD YESTERDAY DURING THE DAY OR THE NIGHT. I AM INTERESTED IN WHETHER (<i>name</i>) HAD THE ITEM EVEN IF IT WAS COMBINED WITH OTHER FOODS.</p> <p>DID (<i>name</i>) DRINK PLAIN WATER YESTERDAY, DURING THE DAY OR NIGHT?</p> | <p>Yes ..... 1<br/> No ..... 2<br/> DK ..... 8</p> |                         |
| <p>BF4. DID (<i>name</i>) DRINK INFANT FORMULA YESTERDAY, DURING THE DAY OR NIGHT?</p>                                                                                                                                                                                                                  | <p>Yes ..... 1<br/> No ..... 2<br/> DK ..... 8</p> | <p>2⇒BF6<br/> 8⇒BF6</p> |
| <p>BF5. HOW MANY TIMES DID (<i>name</i>) DRINK INFANT FORMULA?</p>                                                                                                                                                                                                                                      | <p>Number of times.....__ __</p>                   |                         |
| <p>BF6. DID (<i>name</i>) DRINK MILK, SUCH AS TINNED, POWDERED OR FRESH ANIMAL MILK YESTERDAY, DURING THE DAY OR NIGHT?</p>                                                                                                                                                                             | <p>Yes ..... 1<br/> No ..... 2<br/> DK ..... 8</p> | <p>2⇒BF8<br/> 8⇒BF8</p> |
| <p>BF7. HOW MANY TIMES DID (<i>name</i>) DRINK TINNED, POWDERED OR FRESH ANIMAL MILK?</p>                                                                                                                                                                                                               | <p>Number of times.....__ __</p>                   |                         |
| <p>BF8. DID (<i>name</i>) DRINK JUICE OR JUICE DRINKS YESTERDAY, DURING THE DAY OR NIGHT?</p>                                                                                                                                                                                                           | <p>Yes ..... 1<br/> No ..... 2<br/> DK ..... 8</p> |                         |
| <p>BF9. DID (<i>name</i>) DRINK SOUP YESTERDAY, DURING THE DAY OR NIGHT?</p>                                                                                                                                                                                                                            | <p>Yes ..... 1<br/> No ..... 2<br/> DK ..... 8</p> |                         |
| <p>BF10. DID (<i>name</i>) DRINK OR EAT VITAMIN OR MINERAL SUPPLEMENTS OR ANY MEDICINES YESTERDAY, DURING THE DAY OR NIGHT?</p>                                                                                                                                                                         | <p>Yes ..... 1<br/> No ..... 2<br/> DK ..... 8</p> |                         |

|                                                                                                                         |                                            |                  |
|-------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|------------------|
| BF11. DID ( <i>name</i> ) DRINK ORS (ORAL REHYDRATION SOLUTION) YESTERDAY, DURING THE DAY OR NIGHT?                     | Yes..... 1<br>No ..... 2<br><br>DK ..... 8 |                  |
| BF12. DID ( <i>name</i> ) DRINK ANY OTHER LIQUIDS YESTERDAY, DURING THE DAY OR NIGHT?                                   | Yes..... 1<br>No ..... 2<br><br>DK ..... 8 |                  |
| BF13. DID ( <i>name</i> ) DRINK OR EAT YOGURT YESTERDAY, DURING THE DAY OR NIGHT?                                       | Yes..... 1<br>No ..... 2<br><br>DK ..... 8 | 2⇒BF15<br>8⇒BF15 |
| BF14. HOW MANY TIMES DID ( <i>name</i> ) DRINK OR EAT YOGURT YESTERDAY, DURING THE DAY OR NIGHT?                        | Number of times..... __ __                 |                  |
| BF15. DID (NAME) EAT THIN PORRIDGE YESTERDAY, DURING THE DAY OR NIGHT?                                                  | Yes..... 1<br>No ..... 2<br><br>DK ..... 8 |                  |
| BF16. DID ( <i>name</i> ) EAT SOLID OR SEMI-SOLID (SOFT, MUSHY) FOOD YESTERDAY, DURING THE DAY OR NIGHT?                | Yes..... 1<br>No ..... 2<br><br>DK ..... 8 | 2⇒BF18<br>8⇒BF18 |
| BF17. HOW MANY TIMES DID ( <i>name</i> ) EAT SOLID OR SEMI-SOLID (SOFT, MUSHY) FOOD YESTERDAY, DURING THE DAY OR NIGHT? | Number of times..... __ __                 |                  |
| BF18. YESTERDAY, DURING THE DAY OR NIGHT, DID ( <i>name</i> ) DRINK ANYTHING FROM A BOTTLE WITH A NIPPLE?               | Yes..... 1<br>No ..... 2<br><br>DK ..... 8 |                  |

|                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                          |                               |
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| <p>CA1. IN THE LAST TWO WEEKS, HAS (<i>name</i>) HAD DIARRHOEA?</p>                                                                                                                                                                                                                                                                                                                        | <p>Yes ..... 1<br/> No ..... 2<br/> <br/> DK ..... 8</p>                                                                                                                                 | <p>2⇒CA7<br/> <br/> 8⇒CA7</p> |
| <p>CA2. I WOULD LIKE TO KNOW HOW MUCH (<i>name</i>) WAS GIVEN TO DRINK DURING THE DIARRHOEA (INCLUDING BREASTMILK).</p> <p>DURING THE TIME (<i>name</i>) HAD DIARRHOEA, WAS HE/SHE GIVEN LESS THAN USUAL TO DRINK, ABOUT THE SAME AMOUNT, OR MORE THAN USUAL?</p> <p><i>If less, probe:</i><br/> WAS HE/SHE GIVEN MUCH LESS THAN USUAL TO DRINK, OR SOMEWHAT LESS?</p>                     | <p>Much less..... 1<br/> Somewhat less..... 2<br/> About the same..... 3<br/> More ..... 4<br/> Nothing to drink ..... 5<br/> <br/> DK ..... 8</p>                                       |                               |
| <p>CA3. DURING THE TIME (<i>name</i>) HAD DIARRHOEA, WAS HE/SHE GIVEN LESS THAN USUAL TO EAT, ABOUT THE SAME AMOUNT, MORE THAN USUAL, OR NOTHING TO EAT?</p> <p>If “less”, probe:</p> <p>WAS HE/SHE GIVEN MUCH LESS THAN USUAL TO EAT OR SOMEWHAT LESS?</p>                                                                                                                                | <p>Much less..... 1<br/> Somewhat less..... 2<br/> About the same..... 3<br/> More ..... 4<br/> Stopped food ..... 5<br/> Never gave food ..... 6<br/> <br/> DK ..... 8</p>              |                               |
| <p>CA4. DURING THE EPISODE OF DIARRHOEA, WAS (<i>name</i>) GIVEN TO DRINK ANY OF THE FOLLOWING:</p> <p>Read each item aloud and record response before proceeding to the next item.</p> <p>[A] A FLUID MADE FROM A SPECIAL PACKET CALLED NIMKOL?</p> <p>[B] A PRE-PACKAGED ORS FLUID FOR DIARRHOEA?</p> <p>[C] (<i>Government-recommended homemade fluid name will be added here</i>)?</p> | <p style="text-align: right;">Y N DK</p> <p>Fluid from NIMKOL packet..... 1 2 8</p> <p>Pre-packaged ORS fluid ..... 1 2 8</p> <p><i>Govt. recommended homemade fluid</i> ..... 1 2 8</p> |                               |
| <p>CA5. WAS ANYTHING (ELSE) GIVEN TO TREAT THE DIARRHOEA?</p>                                                                                                                                                                                                                                                                                                                              | <p>Yes ..... 1<br/> No ..... 2<br/> <br/> DK ..... 8</p>                                                                                                                                 | <p>2⇒CA7<br/> <br/> 8⇒CA7</p> |

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| <p>CA6. WHAT (ELSE) WAS GIVEN TO TREAT THE DIARRHOEA?</p> <p><i>Probe:</i><br/>ANYTHING ELSE?</p> <p><i>Record all treatments given. Write brand name(s) of all medicines mentioned.</i></p> <p>_____</p> <p>(Name)</p> | <p>Pill or Syrup<br/> Antibiotic ..... A<br/> Antimotility ..... B<br/> Zinc ..... C<br/> Other (Not antibiotic, antimotility or zinc) ..... G<br/> Unknown pill or syrup ..... H</p> <p>Injection<br/> Antibiotic ..... L<br/> Non-antibiotic ..... M<br/> Unknown injection ..... N</p> <p>Intravenous ..... O</p> <p>Home remedy / Herbal medicine ..... Q</p> <p>Other (<i>specify</i>) _____ X</p>                                                            |                           |
| <p>CA7. AT ANY TIME IN THE LAST TWO WEEKS, HAS (<i>name</i>) HAD AN ILLNESS WITH A COUGH?</p>                                                                                                                           | <p>Yes ..... 1<br/> No ..... 2<br/> DK ..... 8</p>                                                                                                                                                                                                                                                                                                                                                                                                                 | <p>2⇒CA14<br/> 8⇒CA14</p> |
| <p>CA8. WHEN (<i>name</i>) HAD AN ILLNESS WITH A COUGH, DID HE/SHE BREATHE FASTER THAN USUAL WITH SHORT, RAPID BREATHS OR HAVE DIFFICULTY BREATHING?</p>                                                                | <p>Yes ..... 1<br/> No ..... 2<br/> DK ..... 8</p>                                                                                                                                                                                                                                                                                                                                                                                                                 | <p>2⇒CA14<br/> 8⇒CA14</p> |
| <p>CA9. WAS THE FAST OR DIFFICULT BREATHING DUE TO A PROBLEM IN THE CHEST OR A BLOCKED OR RUNNY NOSE?</p>                                                                                                               | <p>Problem in chest ..... 1<br/> Blocked or runny nose ..... 2<br/> Both ..... 3<br/> Other (<i>specify</i>) _____ 6<br/> DK ..... 8</p>                                                                                                                                                                                                                                                                                                                           | <p>2⇒CA14<br/> 6⇒CA14</p> |
| <p>CA10. DID YOU SEEK ANY ADVICE OR TREATMENT FOR THE ILLNESS FROM ANY SOURCE?</p>                                                                                                                                      | <p>Yes ..... 1<br/> No ..... 2<br/> DK ..... 8</p>                                                                                                                                                                                                                                                                                                                                                                                                                 | <p>2⇒CA12<br/> 8⇒CA12</p> |
| <p>CA11. FROM WHERE DID YOU SEEK ADVICE OR TREATMENT?</p> <p><i>Probe:</i><br/>ANYWHERE ELSE?</p> <p>Circle all providers mentioned,<br/>but do NOT prompt with any suggestions.</p>                                    | <p>Public sector<br/> Govt. hospital ..... A<br/> Dispensary ..... E<br/> Basic health centre ..... F<br/> Rural health post ..... G<br/> Other public (<i>specify</i>) ..... H</p> <p>Private medical sector<br/> Private hospital / clinic ..... I<br/> Private physician ..... J<br/> Private pharmacy ..... K<br/> ... Dispenser/compounder ..... M<br/> Other private medical (<i>specify</i>) _____ O</p> <p>Other source<br/> Relative / Friend ..... P</p> |                           |

|                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                    |                             |
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| <p>Probe to identify each type of source.</p> <p>If unable to determine if public or private sector, write the name of the place.</p> <p>_____</p> <p>(Name of place)</p>                                                    | <p>Homeopath .....S</p> <p>Traditional practitioner (Hakeem).....T</p> <p>Other (<i>specify</i>) _____ X</p>                                                                                                                                                                                                       |                             |
| <p>CA12. WAS (<i>name</i>) GIVEN ANY MEDICINE TO TREAT THIS ILLNESS?</p>                                                                                                                                                     | <p>Yes ..... 1</p> <p>No ..... 2</p> <p>DK ..... 8</p>                                                                                                                                                                                                                                                             | <p>2⇒CA14</p> <p>8⇒CA14</p> |
| <p>CA13. WHAT MEDICINE WAS (<i>name</i>) GIVEN?</p> <p><i>Probe:</i><br/>ANY OTHER MEDICINE?</p> <p>Circle all medicines given. Write brand name(s) of all medicines mentioned.</p> <p>_____</p> <p>(Names of medicines)</p> | <p>Antibiotic<br/>Pill / Syrup ..... A<br/>Injection ..... B</p> <p>Anti-malarials..... M</p> <p>Paracetamol / Panadol / Acetaminophen..... P<br/>Aspirin ..... Q<br/>Ibuprofen ..... R</p> <p>Other (<i>specify</i>) _____ X<br/>DK ..... Z</p>                                                                   |                             |
| <p>CA14. Check AG2: Child aged under 3?</p> <p><input type="checkbox"/> Yes. ⇒ Continue with CA15</p> <p><input type="checkbox"/> No. ⇒ Go to Next Module</p>                                                                |                                                                                                                                                                                                                                                                                                                    |                             |
| <p>CA15. THE LAST TIME (<i>name</i>) PASSED STOOLS, WHAT WAS DONE TO DISPOSE OF THE STOOLS?</p>                                                                                                                              | <p>Child used toilet / latrine..... 01</p> <p>Put / Rinsed into toilet or latrine..... 02</p> <p>Put / Rinsed into drain or ditch ..... 03</p> <p>Thrown into garbage (solid waste) ..... 04</p> <p>Buried ..... 05</p> <p>Left in the open ..... 06</p> <p>Other (<i>specify</i>) _____ 96</p> <p>DK ..... 98</p> |                             |

|                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                         |
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| <p>ML1. IN THE LAST TWO WEEKS, HAS (<i>name</i>) BEEN ILL WITH A FEVER AT ANY TIME?</p>                                                                                                                                   | <p>Yes ..... 1<br/> No ..... 2<br/> DK ..... 8</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <p>2⇒Next Module<br/> 8⇒Next Module</p> |
| <p>ML2. AT ANY TIME DURING THE ILLNESS, DID (<i>name</i>) HAVE BLOOD TAKEN FROM HIS/HER FINGER OR HEEL FOR TESTING?</p>                                                                                                   | <p>Yes ..... 1<br/> No ..... 2<br/> DK ..... 8</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                         |
| <p>ML3. DID YOU SEEK ANY ADVICE OR TREATMENT FOR THE ILLNESS FROM ANY SOURCE?</p>                                                                                                                                         | <p>Yes ..... 1<br/> No ..... 2<br/> DK ..... 8</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <p>2⇒ML8<br/> 8⇒ML8</p>                 |
| <p>ML4. WAS (<i>NAME</i>) TAKEN TO A HEALTH FACILITY DURING THIS ILLNESS?</p>                                                                                                                                             | <p>Yes ..... 1<br/> No ..... 2<br/> DK ..... 8</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <p>2⇒ML8<br/> 8⇒ML8</p>                 |
| <p>ML5. WAS (<i>name</i>) GIVEN ANY MEDICINE FOR FEVER OR MALARIA AT THE HEALTH FACILITY?</p>                                                                                                                             | <p>Yes ..... 1<br/> No ..... 2<br/> DK ..... 8</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <p>2⇒ML7<br/> 8⇒ML7</p>                 |
| <p>ML6. WHAT MEDICINE WAS (<i>name</i>) GIVEN?</p> <p><i>Probe:</i><br/> ANY OTHER MEDICINE?</p> <p><i>Circle all medicines mentioned. Write brand name(s) of all medicines, if given.</i></p> <p>_____</p> <p>(Name)</p> | <p>Anti-malarials:<br/> SP / Fansidar ..... A<br/> Chloroquine ..... B<br/> Amodiaquine..... C<br/> Quinine..... D<br/> Combination with Artemisinin.....E<br/> Country-specific CBD anti-malarial .....F<br/> Other anti-malarial<br/> (specify) _____ H</p> <p>Antibiotic drugs<br/> Pill / Syrup .....I<br/> Injection ..... J</p> <p>Other medications:<br/> Paracetamol/ Panadol /Acetaminophen.....P<br/> Aspirin..... Q<br/> Ibuprofen..... R</p> <p>Other (specify) _____ X<br/> DK .....Z</p> |                                         |
| <p>ML7. WAS (<i>name</i>) GIVEN ANY MEDICINE FOR THE FEVER OR MALARIA BEFORE BEING TAKEN TO THE HEALTH FACILITY?</p>                                                                                                      | <p>Yes ..... 1<br/> No ..... 2<br/> DK ..... 8</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <p>1⇒ML9<br/> 2⇒ML10<br/> 8⇒ML10</p>    |
| <p>ML8. WAS (<i>name</i>) GIVEN ANY MEDICINE FOR FEVER OR MALARIA DURING THIS ILLNESS?</p>                                                                                                                                | <p>Yes ..... 1<br/> No ..... 2<br/> DK ..... 8</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <p>2⇒ML10<br/> 8⇒ML10</p>               |

|                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <p>ML9. WHAT MEDICINE WAS (<i>name</i>) GIVEN?</p> <p><i>Probe:</i><br/>ANY OTHER MEDICINE?</p> <p><i>Circle all medicines mentioned. Write brand name(s) of all medicines, if given.</i></p> <p>_____</p> <p>(Name)</p>                                                                                                          | <p>Anti-malarials:</p> <p>SP / Fansidar ..... A</p> <p>Chloroquine ..... B</p> <p>Amodiaquine..... C</p> <p>Quinine..... D</p> <p>Combination with Artemisinin.....E</p> <p>Country-specific CBD anti-malarial .....F</p> <p>Other anti-malarial<br/>(<i>specify</i>) _____ H</p> <p>Antibiotic drugs</p> <p>Pill / Syrup ..... I</p> <p>Injection ..... J</p> <p>Other medications:</p> <p>Paracetamol/ Panadol/ Acetaminophen.....P</p> <p>Aspirin..... Q</p> <p>Ibuprofen..... R</p> <p>Other (<i>specify</i>) _____ X</p> <p>DK ..... Z</p> |  |
| <p>ML10. Check ML6 and ML9: Anti-malarial mentioned (codes A - H)?</p> <p><input type="checkbox"/> Yes. ⇒ Continue with ML11</p> <p><input type="checkbox"/> No. ⇒ Go to Next Module</p>                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| <p>ML11. HOW LONG AFTER THE FEVER STARTED DID (<i>name</i>) FIRST TAKE (<i>name of anti-malarial from ML6 or ML9</i>)?</p> <p><i>If multiple anti-malarials mentioned in ML6 or ML9, name all anti-malarial medicines mentioned.</i></p> <p><i>Record how long after the fever started the first anti-malarial was given.</i></p> | <p>Same day ..... 0</p> <p>Next day ..... 1</p> <p>2 days after the fever..... 2</p> <p>3 days after the fever..... 3</p> <p>4 or more days after the fever ..... 4</p> <p>DK ..... 8</p>                                                                                                                                                                                                                                                                                                                                                       |  |



If an immunization card is available, copy the dates in IM3 for each type of immunization recorded on the card. IM6-IM17 are for registering vaccinations that are not recorded on the card. IM6-IM17 will only be asked when a card is not available.

|                                                                                                                                                           |                                                              |                |      |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------|------|--|
| IM1. DO YOU HAVE A CARD WHERE <i>(name)</i> 'S VACCINATIONS ARE WRITTEN DOWN?<br><br>(If yes) MAY I SEE IT PLEASE?                                        | Yes, seen..... 1<br>Yes, not seen ..... 2<br>No card ..... 3 | 1⇒IM3<br>2⇒IM6 |      |  |
| IM2. DID YOU EVER HAVE A VACCINATION CARD FOR <i>(name)</i> ?                                                                                             | Yes..... 1<br>No ..... 2                                     | 1⇒IM6<br>2⇒IM6 |      |  |
| IM3.<br>(a) Copy dates for each vaccination from the card.<br>(b) Write '44' in day column if card shows that vaccination was given but no date recorded. | Date of Immunization                                         |                |      |  |
|                                                                                                                                                           | Day                                                          | Month          | Year |  |
| BCG                                                                                                                                                       | BCG                                                          |                |      |  |
| POLIO AT BIRTH                                                                                                                                            | OPV0                                                         |                |      |  |
| POLIO 1                                                                                                                                                   | OPV1                                                         |                |      |  |
| POLIO 2                                                                                                                                                   | OPV2                                                         |                |      |  |
| POLIO 3                                                                                                                                                   | OPV3                                                         |                |      |  |
| DPT1                                                                                                                                                      | DPT1                                                         |                |      |  |
| DPT2                                                                                                                                                      | DPT2                                                         |                |      |  |
| DPT3                                                                                                                                                      | DPT3                                                         |                |      |  |
| HEPB AT BIRTH                                                                                                                                             | H0                                                           |                |      |  |
| HEPB1                                                                                                                                                     | H1                                                           |                |      |  |
| HEPB2                                                                                                                                                     | H2                                                           |                |      |  |
| HEPB3                                                                                                                                                     | H3                                                           |                |      |  |
| MEASLES (OR MMR)                                                                                                                                          | MEASLES                                                      |                |      |  |
| INFLUENZA                                                                                                                                                 |                                                              |                |      |  |
| IM4. Check IM3. Are all vaccines (BCG to Yellow Fever) recorded?                                                                                          |                                                              |                |      |  |
| <input type="checkbox"/> Yes ⇒ Continue with IM18                                                                                                         |                                                              |                |      |  |
| <input type="checkbox"/> No ⇒ Continue with IM5                                                                                                           |                                                              |                |      |  |

|                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                              |                          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| <p>IM5. IN ADDITION TO WHAT IS RECORDED ON THIS CARD, DID (<i>name</i>) RECEIVE ANY OTHER VACCINATIONS – INCLUDING VACCINATIONS RECEIVED IN CAMPAIGNS OR IMMUNIZATION DAYS?</p> <p>Record ‘Yes’ only if respondent mentions vaccines shown in the table above.</p>                                    | <p>Yes..... 1<br/>(Probe for vaccinations and write ‘66’ in the corresponding day column for each vaccine mentioned. Then skip to IM18)</p> <p>No ..... 2<br/>DK ..... 8</p> | <p>2⇒UF13<br/>8⇒UF13</p> |
| <p>IM6. HAS (<i>name</i>) EVER RECEIVED ANY VACCINATIONS TO PREVENT HIM/HER FROM GETTING DISEASES, INCLUDING VACCINATIONS RECEIVED IN A CAMPAIGN OR IMMUNIZATION DAY?</p>                                                                                                                             | <p>Yes..... 1<br/>No ..... 2<br/>DK ..... 8</p>                                                                                                                              | <p>2⇒UF13<br/>8⇒UF13</p> |
| <p>IM7. HAS (<i>name</i>) EVER RECEIVED A BCG VACCINATION AGAINST TUBERCULOSIS – THAT IS, AN INJECTION IN THE ARM OR SHOULDER THAT USUALLY CAUSES A SCAR?</p>                                                                                                                                         | <p>Yes..... 1<br/>No ..... 2<br/>DK ..... 8</p>                                                                                                                              |                          |
| <p>IM8. HAS (<i>name</i>) EVER RECEIVED ANY “VACCINATION DROPS IN THE MOUTH” TO PROTECT HIM/HER FROM GETTING DISEASES – THAT IS, POLIO?</p>                                                                                                                                                           | <p>Yes..... 1<br/>No ..... 2<br/>DK ..... 8</p>                                                                                                                              | <p>2⇒IM11<br/>8⇒IM11</p> |
| <p>IM9. WAS THE FIRST POLIO VACCINE RECEIVED IN THE FIRST TWO WEEKS AFTER BIRTH OR LATER?</p>                                                                                                                                                                                                         | <p>First two weeks ..... 1<br/>Later..... 2</p>                                                                                                                              |                          |
| <p>IM10. HOW MANY TIMES WAS THE POLIO VACCINE RECEIVED?</p>                                                                                                                                                                                                                                           | <p>Number of times..... _</p>                                                                                                                                                |                          |
| <p>IM11. HAS (<i>name</i>) EVER RECEIVED A DPT VACCINATION – THAT IS, AN INJECTION IN THE THIGH OR BUTTOCKS – TO PREVENT HIM/HER FROM GETTING TETANUS, WHOOPING COUGH, DIPHTHERIA?</p> <p><i>Probe by indicating that DPT vaccination is sometimes given at the same time as Polio</i></p>            | <p>Yes..... 1<br/>No ..... 2<br/>DK ..... 8</p>                                                                                                                              | <p>2⇒IM13<br/>8⇒IM13</p> |
| <p>IM12. HOW MANY TIMES WAS A DPT VACCINE RECEIVED?</p>                                                                                                                                                                                                                                               | <p>Number of times..... _</p>                                                                                                                                                |                          |
| <p>IM13. HAS (<i>name</i>) EVER BEEN GIVEN A HEPATITIS B VACCINATION – THAT IS, AN INJECTION IN THE THIGH OR BUTTOCKS – TO PREVENT HIM/HER FROM GETTING HEPATITIS B?</p> <p><i>Probe by indicating that the Hepatitis B vaccine is sometimes given at the same time as Polio and DPT vaccines</i></p> | <p>Yes..... 1<br/>No ..... 2<br/>DK ..... 8</p>                                                                                                                              | <p>2⇒IM16<br/>8⇒IM16</p> |
| <p>IM14. WAS THE FIRST HEPATITIS B VACCINE RECEIVED WITHIN 24 HOURS AFTER BIRTH, OR LATER?</p>                                                                                                                                                                                                        | <p>Within 24 hours..... 1<br/>Later..... 2</p>                                                                                                                               |                          |
| <p>IM15. HOW MANY TIMES WAS A HEPATITIS B VACCINE RECEIVED?</p>                                                                                                                                                                                                                                       | <p>Number of times..... _</p>                                                                                                                                                |                          |

|                                                                                                                                                                                                     |                                                   |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|--|
| <p>IM16. HAS (<i>name</i>) EVER RECEIVED A MEASLES INJECTION OR AN MMR INJECTION – THAT IS, A SHOT IN THE ARM AT THE AGE OF <b>9</b> MONTHS OR OLDER - TO PREVENT HIM/HER FROM GETTING MEASLES?</p> | <p>Yes..... 1<br/> No ..... 2<br/> DK ..... 8</p> |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|--|

|                                      |                                    |  |
|--------------------------------------|------------------------------------|--|
| <p>UF13. <i>Record the time.</i></p> | <p>Hour and minutes ..... : ..</p> |  |
|--------------------------------------|------------------------------------|--|

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>UF14. <i>Is the respondent the mother or caretaker of another child age 0-4 living in this household?</i></p> <p><input type="checkbox"/> <i>Yes. ⇒ Indicate to the respondent that you will need to measure the weight and height of the child later. Go to the next <u>QUESTIONNAIRE FOR CHILDREN UNDER FIVE</u> to be administered to the same respondent</i></p> <p><input type="checkbox"/> <i>No. ⇒ End the interview with this respondent by thanking him/her for his/her cooperation and tell her/him that you will need to measure the weight and height of the child.</i></p> <p><i>Check to see if there are other woman’s or under-5 questionnaires to be administered in this household.</i></p> <p><i>Move to another woman’s or under-5 questionnaire, or start making arrangements for anthropometric measurements of all eligible children in the household.</i></p> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                                                                                                                                                                                                                                                                                                   |                                                                                                              |       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-------|
| <p>After questionnaires for all children are complete, the measurer weighs and measures each child. Record weight and length/height below, taking care to record the measurements on the correct questionnaire for each child. Check the child's name and line number on the household listing before recording measurements.</p> |                                                                                                              |       |
| AN1. Measurer's name and number:                                                                                                                                                                                                                                                                                                  | Name _____                                                                                                   |       |
| AN2. Result of height / length and weight measurement                                                                                                                                                                                                                                                                             | Either or both measured ..... 1                                                                              |       |
|                                                                                                                                                                                                                                                                                                                                   | Child not present ..... 2                                                                                    | 2⇒AN6 |
|                                                                                                                                                                                                                                                                                                                                   | Child or caretaker refused..... 3                                                                            | 3⇒AN6 |
|                                                                                                                                                                                                                                                                                                                                   | Other ( <i>specify</i> ) _____ 6                                                                             | 6⇒AN6 |
| AN3. Child's weight                                                                                                                                                                                                                                                                                                               | Kilograms (kg) ..... _ . _                                                                                   |       |
|                                                                                                                                                                                                                                                                                                                                   | Weight not measured ..... 99.9                                                                               |       |
| AN4. Child's length or height                                                                                                                                                                                                                                                                                                     |                                                                                                              |       |
| Check age of child in AG2:<br><input type="checkbox"/> Child under 2 years old. ⇒ Measure length (lying down).<br><input type="checkbox"/> Child age 2 or more years. ⇒ Measure height (standing up).                                                                                                                             | Length (cm)<br>Lying down ..... 1 _ . _                                                                      |       |
|                                                                                                                                                                                                                                                                                                                                   | Height (cm)<br>Standing up ..... 2 _ . _                                                                     |       |
|                                                                                                                                                                                                                                                                                                                                   | Length / Height not measured ..... 9999.9                                                                    |       |
| AN5. Oedema                                                                                                                                                                                                                                                                                                                       |                                                                                                              |       |
| Observe and record                                                                                                                                                                                                                                                                                                                | Checked<br>..... Oedema present<br>..... 1<br>..... Oedema not present<br>..... 2<br>..... Unsure<br>..... 3 |       |
|                                                                                                                                                                                                                                                                                                                                   | Not checked<br>_____ ( <i>specify reason</i> )<br>_____ 7                                                    |       |

AN6. Is there another child in the household who is eligible for measurement?

Yes. ⇒ Record measurements for next child.

No. ⇒ End the interview with this household by thanking all participants for their cooperation.

Gather together all questionnaires for this household and check that all identification numbers are inserted on each page. Tally on the Household Information Panel the number of interviews completed.

**Interviewer's Observations**

**Field Editor's Observations**

**Supervisor's Observations**

## **Appendix G District level Indicators**

Readers are cautioned that sample size at district level is not adequate to give reliable estimates on all indicators at district level. Tables at district level have been included in the report for selected indicators only. However, sampling errors included at Appendix C-1 indicate larger sampling errors for district level indicators and hence readers should refrain from comparing districts against each other and also with earlier surveys. Percentages based on less than 25 unweighted numbers are collapsed and those based on unweighted numbers between 25 and 49 are shown in parenthesis to further caution readers while using these statistics.

**Table 1: Percentage of children age 0-23 months who were ever breastfed and Percentage of children who received prelacteal feed, by districts, Balochistan Province, Pakistan, 2010**

| Districts            | Percentage ever breastfed | Percentage who received a prelacteal feed | Number of last born children age 0-23 months |
|----------------------|---------------------------|-------------------------------------------|----------------------------------------------|
| <b>Region I</b>      |                           |                                           |                                              |
| Quetta Zarghoon Town | 93.8                      | 32.8                                      | 180                                          |
| Quetta Chilton Town  | 95.3                      | 47.7                                      | 132                                          |
| Pishin               | 96.7                      | 29.7                                      | 219                                          |
| Qilla Abdullah       | 87.7                      | 20.6                                      | 182                                          |
| Noshki               | (79.8)                    | (50.9)                                    | 27                                           |
| Chagai               | 99.1                      | 83.4                                      | 51                                           |
| <b>Region II</b>     |                           |                                           |                                              |
| Mastung              | 96.5                      | 74.3                                      | 79                                           |
| Kalat                | 92.8                      | 54.5                                      | 117                                          |
| Khuzdar              | 97.9                      | 83.9                                      | 152                                          |
| Awaran               | (100.0)                   | (94.6)                                    | 23                                           |
| Lasbela              | 97.6                      | 78.9                                      | 133                                          |
| Kharan               | 90.2                      | 25.0                                      | 53                                           |
| Washuk               | (*)                       | (*)                                       | 7                                            |
| <b>Region III</b>    |                           |                                           |                                              |
| Ziarat               | 91.6                      | 28.2                                      | 18                                           |
| Harnai               | 95.5                      | 30.6                                      | 25                                           |
| Sibi                 | 83.9                      | 30.8                                      | 35                                           |
| Dera Bugti           | (95.4)                    | (67.4)                                    | 28                                           |
| Kohlu                | 99.5                      | 75.3                                      | 59                                           |
| <b>Region IV</b>     |                           |                                           |                                              |
| Qilla Saifullah      | 97.7                      | 39.3                                      | 114                                          |
| Zhob                 | 98.7                      | 57.0                                      | 61                                           |
| Sherani              | (*)                       | (*)                                       | 6                                            |
| Musakhail            | (98.5)                    | (42.2)                                    | 15                                           |
| Loralai              | 91.9                      | 22.7                                      | 71                                           |
| Barkhan              | (96.9)                    | (49.1)                                    | 19                                           |
| <b>Region V</b>      |                           |                                           |                                              |
| Jafarabad            | 91.6                      | 31.6                                      | 241                                          |
| Naseerabad           | 89.9                      | 40.8                                      | 130                                          |
| Jhal Magsi           | (86.1)                    | (60.5)                                    | 23                                           |
| Bolan                | 89.5                      | 31.4                                      | 82                                           |
| <b>Region VI</b>     |                           |                                           |                                              |
| Panjgoor             | (*)                       | (*)                                       | 10                                           |
| Kech                 | 98.5                      | 94.1                                      | 147                                          |
| Gawader              | 93.6                      | 71.7                                      | 49                                           |

Note: Figures shown in parenthesis are based on denominators of 25-49 un-weighted cases and figures shown by an (\*) are based on denominators of 24 un-weighted cases and less.

**Table 2: Percentage of household population by consumption of iodized salt (15+PPM), Balochistan Province, Balochistan, 2010**

| Name of district     | Percentage of households with Iodized salt | Number of households in which salt was tested or had no salt |
|----------------------|--------------------------------------------|--------------------------------------------------------------|
| <b>Region I</b>      |                                            |                                                              |
| Quetta Zarghoon Town | 18.0                                       | 665                                                          |
| Quetta Chilton Town  | 6.8                                        | 543                                                          |
| Pishin               | 5.0                                        | 556                                                          |
| Qilla Abdullah       | 2.6                                        | 493                                                          |
| Noshki               | 19.3                                       | 155                                                          |
| Chagai               | 14.8                                       | 194                                                          |
| <b>Region II</b>     |                                            |                                                              |
| Mastung              | 3.6                                        | 273                                                          |
| Kalat                | 10.7                                       | 455                                                          |
| Khuzdar              | 6.8                                        | 867                                                          |
| Awaran               | 0.7                                        | 242                                                          |
| Lasbela              | 10.2                                       | 563                                                          |
| Kharan               | 5.2                                        | 258                                                          |
| Washuk               | 7.2                                        | 133                                                          |
| <b>Region III</b>    |                                            |                                                              |
| Ziarat               | 6.9                                        | 63                                                           |
| Harnai               | 6.6                                        | 142                                                          |
| Sibi                 | 18.1                                       | 157                                                          |
| Dera Bugti           | 0.0                                        | 342                                                          |
| Kohlu                | 1.3                                        | 281                                                          |
| <b>Region IV</b>     |                                            |                                                              |
| Qilla Saifullah      | 4.9                                        | 276                                                          |
| Zhob                 | 2.3                                        | 308                                                          |
| Sherani              | 5.8                                        | 139                                                          |
| Musakhail            | 0.3                                        | 201                                                          |
| Loralai              | 5.1                                        | 520                                                          |
| Barkhan              | 2.4                                        | 184                                                          |
| <b>Region V</b>      |                                            |                                                              |
| Jafarabad            | 24.6                                       | 711                                                          |
| Naseerabad           | 6.5                                        | 427                                                          |
| Jhal Magsi           | 3.6                                        | 185                                                          |
| Bolan                | 3.0                                        | 511                                                          |
| <b>Region VI</b>     |                                            |                                                              |
| Panjgoor             | 2.9                                        | 363                                                          |
| Kech                 | 37.3                                       | 846                                                          |
| Gawader              | 16.3                                       | 315                                                          |



| Table 3: Percentage of children 12-23 months by vaccination status, Balochistan Province, Pakistan 2010 |            |         |         |         |        |                   |                                  |
|---------------------------------------------------------------------------------------------------------|------------|---------|---------|---------|--------|-------------------|----------------------------------|
| Name of district                                                                                        | Percentage |         |         |         |        |                   | Number children age 12-23 months |
|                                                                                                         | BCG        | Polio3  | DPT3    | Measles | HepB 3 | Fully vaccinated* |                                  |
| <b>Region I</b>                                                                                         |            |         |         |         |        |                   |                                  |
| Quetta Zarghoon Town                                                                                    | 48.21      | 53.64   | 8.30    | 27.72   | 7.4    | 5.45              | 108                              |
| Quetta Chilton Town                                                                                     | 44.18      | 61.72   | 19.02   | 32.67   | 16.7   | 13.26             | 63                               |
| Pishin                                                                                                  | 21.99      | 78.22   | 1.44    | 10.45   | .0     | 0.00              | 112                              |
| Qilla Abdullah                                                                                          | 6.50       | 14.03   | 0.56    | 5.51    | .0     | 0.00              | 117                              |
| Noshki                                                                                                  | (*)        | (*)     | (*)     | (*)     | (*)    | (*)               | 13                               |
| Chagai                                                                                                  | 34.10      | 46.19   | 14.30   | 26.67   | 2.3    | 2.17              | 33                               |
| <b>Region II</b>                                                                                        |            |         |         |         |        |                   |                                  |
| Mastung                                                                                                 | 55.05      | 61.23   | 22.05   | 27.55   | 15.4   | 6.97              | 46                               |
| Kalat                                                                                                   | 14.98      | 48.13   | 8.01    | 7.64    | 1.6    | 0.80              | 70                               |
| Khuzdar                                                                                                 | 30.46      | 14.29   | 4.49    | 23.25   | 2.7    | 0.00              | 92                               |
| Awaran                                                                                                  | (*)        | (*)     | (*)     | (*)     | (*)    | (*)               | 18                               |
| Lasbela                                                                                                 | 57.03      | 79.50   | 30.84   | 64.17   | 18.0   | 14.16             | 65                               |
| Kharan                                                                                                  | 38.66      | 32.54   | 12.46   | 17.97   | 7.0    | 5.35              | 31                               |
| Washuk                                                                                                  | (*)        | (*)     | (*)     | (*)     | (*)    | (*)               | 4                                |
| <b>Region III</b>                                                                                       |            |         |         |         |        |                   |                                  |
| Ziarat                                                                                                  | (33.82)    | (67.6)  | (1.47)  | (3.62)  | (1.5)  | (0.00)            | 10                               |
| Harnai                                                                                                  | (18.71)    | (46.2)  | (1.72)  | (19.76) | (1.6)  | (0.00)            | 14                               |
| Sibi                                                                                                    | 36.61      | 56.47   | 18.71   | 32.27   | 15.1   | 11.82             | 23                               |
| Dera Bugti                                                                                              | (*)        | (*)     | (*)     | (*)     | (*)    | (*)               | 28                               |
| Kohlu                                                                                                   | (4.48)     | (8.5)   | (0.00)  | (5.28)  | (.0)   | (0.00)            | 42                               |
| <b>Region IV</b>                                                                                        |            |         |         |         |        |                   |                                  |
| Qilla Saifullah                                                                                         | 22.16      | 62.43   | 1.61    | 18.80   | 1.7    | 1.50              | 57                               |
| Zhob                                                                                                    | 31.11      | 60.12   | 8.62    | 9.16    | 4.6    | 0.00              | 49                               |
| Sherani                                                                                                 | (4.60)     | (7.75)  | (0.00)  | (2.45)  | (.0)   | (0.00)            | 12                               |
| Musakhail                                                                                               | (0.00)     | (56.1)  | (0.00)  | (1.28)  | (.0)   | (0.00)            | 21                               |
| Loralai                                                                                                 | (18.09)    | (28.0)  | (3.38)  | (20.98) | (.0)   | (0.00)            | 47                               |
| Barkhan                                                                                                 | (4.96)     | (34.2)  | (0.00)  | (3.47)  | (.0)   | (0.00)            | 16                               |
| <b>Region V</b>                                                                                         |            |         |         |         |        |                   |                                  |
| Jafarabad                                                                                               | 43.08      | 52.16   | 18.62   | 21.30   | 5.5    | 2.69              | 137                              |
| Naseerabad                                                                                              | 48.87      | 64.27   | 19.33   | 23.61   | 15.0   | 12.55             | 79                               |
| Jhal Magsi                                                                                              | (55.71)    | (75.5)  | (35.90) | (25.74) | (25.7) | (19.10)           | 16                               |
| Bolan                                                                                                   | (44.84)    | (53.98) | (29.86) | (18.74) | (10.4) | (6.03)            | 56                               |
| <b>Region VI</b>                                                                                        |            |         |         |         |        |                   |                                  |
| Panjgoor                                                                                                | (*)        | (*)     | (*)     | (*)     | (*)    | (*)               | 5                                |
| Kech                                                                                                    | (82.10)    | (31.5)  | (26.10) | (62.31) | (12.0) | (0.00)            | 91                               |
| Gawader                                                                                                 | (*)        | (*)     | (*)     | (*)     | (*)    | (*)               | 18                               |

\*Fully immunized include among others the vaccinations for hepatitis as well. The vaccination figures therefore are not comparable with other surveys like PDHS and PSLM etc.

Note: Figures shown in parenthesis are based on denominators of 25-49 un-weighted cases and figures shown by an (\*) are based on denominators of 24 un-weighted cases and less.

**Table 4: Percentage of ever married women age 15-49 years who had a live birth in the past two years who have received 2 doses of TT injection and percentage of women who were protected against tetanus, by district, Balochistan Province, Pakistan 2010**

| Name of district     | Percentage who received 2 doses of TT injection during last pregnancy | Percentage of women protected against tetanus | Number of ever married women with a live birth in the past two years |
|----------------------|-----------------------------------------------------------------------|-----------------------------------------------|----------------------------------------------------------------------|
| <b>Region I</b>      |                                                                       |                                               |                                                                      |
| Quetta Zarghoon Town | 34.4                                                                  | 40.5                                          | 180                                                                  |
| Quetta Chilton Town  | 21.9                                                                  | 28.5                                          | 132                                                                  |
| Pishin               | 10.5                                                                  | 13.4                                          | 219                                                                  |
| Qilla Abdullah       | 3.4                                                                   | 3.7                                           | 182                                                                  |
| Noshki               | (12.6)                                                                | (14.7)                                        | 27                                                                   |
| Chagai               | 4.9                                                                   | 7.4                                           | 51                                                                   |
| <b>Region II</b>     |                                                                       |                                               |                                                                      |
| Mastung              | 9.7                                                                   | 11.4                                          | 79                                                                   |
| Kalat                | 4.5                                                                   | 5.4                                           | 117                                                                  |
| Khuzdar              | 11.6                                                                  | 14.1                                          | 152                                                                  |
| Awaran               | (10.8)                                                                | (10.8)                                        | 23                                                                   |
| Lasbela              | 22.7                                                                  | 23.7                                          | 133                                                                  |
| Kharan               | 7.7                                                                   | 11.2                                          | 53                                                                   |
| Washuk               | (*)                                                                   | (*)                                           | 7                                                                    |
| <b>Region III</b>    |                                                                       |                                               |                                                                      |
| Ziarat               | 1.8                                                                   | 2.8                                           | 18                                                                   |
| Harnai               | 4.7                                                                   | 6.5                                           | 25                                                                   |
| Sibi                 | 30.2                                                                  | 30.2                                          | 35                                                                   |
| Dera Bugti           | (*)                                                                   | (*)                                           | 28                                                                   |
| Kohlu                | 0.0                                                                   | 0.3                                           | 59                                                                   |
| <b>Region IV</b>     |                                                                       |                                               |                                                                      |
| Qilla Saifullah      | 5.6                                                                   | 6.5                                           | 114                                                                  |
| Zhob                 | 2.0                                                                   | 8.3                                           | 61                                                                   |
| Sherani              | (*)                                                                   | (*)                                           | 6                                                                    |
| Musakhail            | (1.6)                                                                 | (1.6)                                         | 15                                                                   |
| Loralai              | 5.8                                                                   | 5.8                                           | 71                                                                   |
| Barkhan              | (6.4)                                                                 | (6.4)                                         | 19                                                                   |
| <b>Region V</b>      |                                                                       |                                               |                                                                      |
| Jafarabad            | 21.9                                                                  | 23.3                                          | 241                                                                  |
| Naseerabad           | 19.0                                                                  | 20.0                                          | 130                                                                  |
| Jhal Magsi           | (20.7)                                                                | (20.7)                                        | 23                                                                   |
| Bolan                | 14.0                                                                  | 16.6                                          | 82                                                                   |
| <b>Region VI</b>     |                                                                       |                                               |                                                                      |
| Panjgoor             | (*)                                                                   | (*)                                           | 10                                                                   |
| Kech                 | 22.4                                                                  | 35.1                                          | 147                                                                  |
| Gawader              | 27.3                                                                  | 32.8                                          | 49                                                                   |

Note: Figures shown in parenthesis are based on denominators of 25-49 un-weighted cases and figures shown by an (\*) are based on denominators of 24 un-weighted cases and less.

**Table 5: Percentage of children 0-59 months who had diarrhoea in the last two weeks and those who received ORS or any home made fluids, by district, Balochistan Province, Pakistan, 2010**

| Name of district     | Percentage who had diarrhoea in the past two weeks | Number of children age 0-59 months | Percentage who received ORS or recommended home-made liquids | Number of children 0-59 months who had diarrhoea in the past two weeks |
|----------------------|----------------------------------------------------|------------------------------------|--------------------------------------------------------------|------------------------------------------------------------------------|
| <b>Region I</b>      |                                                    |                                    |                                                              |                                                                        |
| Quetta Zarghoon Town | 14.2                                               | 459                                | 44.6                                                         | 65                                                                     |
| Quetta Chilton Town  | 14.9                                               | 421                                | (64.4)                                                       | 63                                                                     |
| Pishin               | 23.9                                               | 657                                | 37.3                                                         | 157                                                                    |
| Qilla Abdullah       | 6.1                                                | 727                                | (93.1)                                                       | 44                                                                     |
| Noshki               | 6.6                                                | 104                                | (*)                                                          | 7                                                                      |
| Chagai               | 16.3                                               | 180                                | (45.2)                                                       | 29                                                                     |
| <b>Region II</b>     |                                                    |                                    |                                                              |                                                                        |
| Mastung              | 21.1                                               | 248                                | 58.5                                                         | 52                                                                     |
| Kalat                | 21.8                                               | 428                                | 64.0                                                         | 93                                                                     |
| Khuzdar              | 21.7                                               | 622                                | 75.9                                                         | 135                                                                    |
| Awaran               | 35.9                                               | 148                                | 43.9                                                         | 53                                                                     |
| Lasbela              | 30.1                                               | 372                                | 58.1                                                         | 112                                                                    |
| Kharan               | 13.4                                               | 175                                | (78.5)                                                       | 23                                                                     |
| Washuk               | 17.1                                               | 61                                 | (84.8)                                                       | 10                                                                     |
| <b>Region III</b>    |                                                    |                                    |                                                              |                                                                        |
| Ziarat               | 29.5                                               | 59                                 | 39.7                                                         | 17                                                                     |
| Harnai               | 23.6                                               | 107                                | 50.8                                                         | 25                                                                     |
| Sibi                 | 22.3                                               | 127                                | 75.5                                                         | 28                                                                     |
| Dera Bugti           | 52.9                                               | 258                                | 94.4                                                         | 136                                                                    |
| Kohlu                | 58.2                                               | 248                                | 96.9                                                         | 144                                                                    |
| <b>Region IV</b>     |                                                    |                                    |                                                              |                                                                        |
| Qilla Saifullah      | 30.1                                               | 386                                | 36.9                                                         | 116                                                                    |
| Zhob                 | 9.3                                                | 398                                | (86.0)                                                       | 37                                                                     |
| Sherani              | 13.4                                               | 89                                 | (80.8)                                                       | 12                                                                     |
| Musakhail            | 1.5                                                | 159                                | (*)                                                          | 2                                                                      |
| Loralai              | 8.1                                                | 431                                | (79.9)                                                       | 35                                                                     |
| Barkhan              | 32.3                                               | 146                                | 97.5                                                         | 47                                                                     |
| <b>Region V</b>      |                                                    |                                    |                                                              |                                                                        |
| Jafarabad            | 13.2                                               | 810                                | 77.0                                                         | 107                                                                    |
| Naseerabad           | 38.2                                               | 411                                | 81.0                                                         | 157                                                                    |
| Jhal Magsi           | 38.0                                               | 114                                | 78.7                                                         | 43                                                                     |
| Bolan                | 21.9                                               | 408                                | 74.1                                                         | 89                                                                     |
| <b>Region VI</b>     |                                                    |                                    |                                                              |                                                                        |
| Panjgoor             | 30.2                                               | 130                                | (87.5)                                                       | 39                                                                     |
| Kech                 | 17.6                                               | 670                                | 98.3                                                         | 118                                                                    |
| Gawader              | 33.0                                               | 183                                | 73.4                                                         | 61                                                                     |

Note: Figures shown in parenthesis are based on denominators of 25-49 un-weighted cases and figures shown by an (\*) are based on denominators of 24 un-weighted cases and less.

**Table 6: Percentage of children 0-59 months who had suspected pneumonia in the last two weeks, by district, Balochistan Province, Pakistan, 2010**

| Name of District     | Percentage of children 0-59 months who had suspected pneumonia | Number of children 0-59 months |
|----------------------|----------------------------------------------------------------|--------------------------------|
| <b>Region I</b>      |                                                                |                                |
| Quetta Zarghoon Town | 3.7                                                            | 459                            |
| Quetta Chilton Town  | 6.0                                                            | 421                            |
| Pishin               | 6.9                                                            | 657                            |
| Qilla Abdullah       | 1.7                                                            | 727                            |
| Noshki               | 0.0                                                            | 104                            |
| Chagai               | 2.1                                                            | 180                            |
| <b>Region II</b>     |                                                                |                                |
| Mastung              | 11.6                                                           | 248                            |
| Kalat                | 4.9                                                            | 428                            |
| Khuzdar              | 4.0                                                            | 622                            |
| Awaran               | 35.6                                                           | 148                            |
| Lasbela              | 2.0                                                            | 372                            |
| Kharan               | 3.1                                                            | 175                            |
| Washuk               | 7.6                                                            | 61                             |
| <b>Region III</b>    |                                                                |                                |
| Ziarat               | 6.8                                                            | 59                             |
| Harnai               | 4.4                                                            | 107                            |
| Sibi                 | 4.1                                                            | 127                            |
| Dera Bugti           | 0.0                                                            | 258                            |
| Kohlu                | 1.1                                                            | 248                            |
| <b>Region IV</b>     |                                                                |                                |
| Qilla Saifullah      | 11.1                                                           | 386                            |
| Zhob                 | 0.9                                                            | 398                            |
| Sherani              | 4.2                                                            | 89                             |
| Musakhail            | 0.0                                                            | 159                            |
| Loralai              | 1.9                                                            | 431                            |
| Barkhan              | 2.2                                                            | 146                            |
| <b>Region V</b>      |                                                                |                                |
| Jafarabad            | 5.1                                                            | 810                            |
| Naseerabad           | 4.2                                                            | 411                            |
| Jhal Magsi           | 4.4                                                            | 114                            |
| Bolan                | 3.9                                                            | 408                            |
| <b>Region VI</b>     |                                                                |                                |
| Panjgoor             | 3.4                                                            | 130                            |
| Kech                 | 2.3                                                            | 670                            |
| Gawader              | 4.8                                                            | 183                            |

Note: Figures shown in parenthesis are based on denominators of 25-49 un-weighted cases and figures shown by an (\*) are based on denominators of 24 un-weighted cases and less.

**Table 7: Percentage of mothers/caretakers of children 0-59 months who recognize two danger signs in children requiring immediate referral to a health facility, by district, Balochistan Province, Pakistan, 2010**

| Name of District     | Percentage of mothers/caretakers who recognize two danger signs in children requiring immediate referral to a health facility | Number of mothers/caretaker of children age 0-59 months |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| <b>Region I</b>      |                                                                                                                               |                                                         |
| Quetta Zarghoon Town | 17.3                                                                                                                          | 323                                                     |
| Quetta Chilton Town  | 5.7                                                                                                                           | 288                                                     |
| Pishin               | 6.3                                                                                                                           | 429                                                     |
| Qilla Abdullah       | 31.1                                                                                                                          | 390                                                     |
| Noshki               | 21.0                                                                                                                          | 65                                                      |
| Chagai               | 11.9                                                                                                                          | 103                                                     |
| <b>Region II</b>     |                                                                                                                               |                                                         |
| Mastung              | 16.6                                                                                                                          | 189                                                     |
| Kalat                | 14.4                                                                                                                          | 301                                                     |
| Khuzdar              | 8.7                                                                                                                           | 544                                                     |
| Awaran               | 16.7                                                                                                                          | 102                                                     |
| Lasbela              | 2.7                                                                                                                           | 266                                                     |
| Kharan               | 28.7                                                                                                                          | 124                                                     |
| Washuk               | 5.2                                                                                                                           | 51                                                      |
| <b>Region III</b>    |                                                                                                                               |                                                         |
| Ziarat               | 6.1                                                                                                                           | 44                                                      |
| Harnai               | 21.6                                                                                                                          | 78                                                      |
| Sibi                 | 22.7                                                                                                                          | 95                                                      |
| Dera Bugti           | 33.9                                                                                                                          | 235                                                     |
| Kohlu                | 30.0                                                                                                                          | 199                                                     |
| <b>Region IV</b>     |                                                                                                                               |                                                         |
| Qilla Saifullah      | 4.1                                                                                                                           | 247                                                     |
| Zhob                 | 12.8                                                                                                                          | 233                                                     |
| Sherani              | 22.7                                                                                                                          | 70                                                      |
| Musakhail            | 0.0                                                                                                                           | 114                                                     |
| Loralai              | 16.6                                                                                                                          | 308                                                     |
| Barkhan              | 14.4                                                                                                                          | 127                                                     |
| <b>Region V</b>      |                                                                                                                               |                                                         |
| Jafarabad            | 7.5                                                                                                                           | 557                                                     |
| Naseerabad           | 23.2                                                                                                                          | 281                                                     |
| Jhal Magsi           | 19.8                                                                                                                          | 90                                                      |
| Bolan                | 27.4                                                                                                                          | 302                                                     |
| <b>Region VI</b>     |                                                                                                                               |                                                         |
| Panjgoor             | 7.4                                                                                                                           | 100                                                     |
| Kech                 | 0.4                                                                                                                           | 527                                                     |
| Gawader              | 14.8                                                                                                                          | 125                                                     |

**Table 8: Percentage of household population living in households using solid fuels for cooking, by districts, Balochistan Province, Pakistan, 2010**

| Name of District     | Percentage of household population using solid fuel for cooking | Number of household members |
|----------------------|-----------------------------------------------------------------|-----------------------------|
| <b>Region I</b>      |                                                                 |                             |
| Quetta Zarghoon Town | 4.8                                                             | 5285                        |
| Quetta Chilton Town  | 7.4                                                             | 4286                        |
| Pishin               | 58.6                                                            | 5527                        |
| Qilla Abdullah       | 88.0                                                            | 4315                        |
| Noshki               | 85.3                                                            | 1180                        |
| Chagai               | 93.6                                                            | 1373                        |
| <b>Region II</b>     |                                                                 |                             |
| Mastung              | 57.0                                                            | 2245                        |
| Kalat                | 81.6                                                            | 3945                        |
| Khuzdar              | 94.4                                                            | 5972                        |
| Awaran               | 98.4                                                            | 1308                        |
| Lasbela              | 88.4                                                            | 3544                        |
| Kharan               | 87.6                                                            | 1804                        |
| Washuk               | 97.5                                                            | 693                         |
| <b>Region III</b>    |                                                                 |                             |
| Ziarat               | 62.3                                                            | 556                         |
| Harnai               | 95.9                                                            | 1129                        |
| Sibi                 | 35.3                                                            | 1187                        |
| Dera Bugti           | 7.3                                                             | 2861                        |
| Kohlu                | 64.1                                                            | 2395                        |
| <b>Region IV</b>     |                                                                 |                             |
| Qilla Saifullah      | 97.0                                                            | 2744                        |
| Zhob                 | 89.1                                                            | 2763                        |
| Sherani              | 91.7                                                            | 1028                        |
| Musakhail            | 99.6                                                            | 1426                        |
| Loralai              | 95.4                                                            | 4044                        |
| Barkhan              | 71.1                                                            | 1395                        |
| <b>Region V</b>      |                                                                 |                             |
| Jafarabad            | 71.5                                                            | 6322                        |
| Naseerabad           | 86.8                                                            | 3560                        |
| Jhal Magsi           | 87.7                                                            | 1472                        |
| Bolan                | 75.2                                                            | 3788                        |
| <b>Region VI</b>     |                                                                 |                             |
| Panjgoor             | 76.3                                                            | 2615                        |
| Kech                 | 94.2                                                            | 6378                        |
| Gawader              | 93.3                                                            | 2048                        |

**Table 9: Percentage of household population using improved source of drinking water; percentage of households without drinking water on premises; percentage of household population not using any method for treating drinking water, by district, Balochistan Province, Pakistan, 2010**

| <b>District</b>      | <b>Percentage of household population using improved source of drinking water</b> | <b>Percentage of household population not using any method for treating water for drinking</b> | <b>Number of household members</b> | <b>Percentage of households without drinking water on premises</b> | <b>Number of households</b> |
|----------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------|--------------------------------------------------------------------|-----------------------------|
| <b>Region I</b>      |                                                                                   |                                                                                                |                                    |                                                                    |                             |
| Quetta Zarghoon Town | 91.1                                                                              | 79.0                                                                                           | 5285                               | 8.2                                                                | 686                         |
| Quetta Chilton Town  | 83.4                                                                              | 88.0                                                                                           | 4286                               | 15.2                                                               | 559                         |
| Pishin               | 89.8                                                                              | 93.5                                                                                           | 5527                               | 27.0                                                               | 603                         |
| Qilla Abdullah       | 99.1                                                                              | 91.3                                                                                           | 4315                               | 4.2                                                                | 504                         |
| Noshki               | 89.1                                                                              | 98.8                                                                                           | 1180                               | 36.5                                                               | 164                         |
| Chagai               | 66.6                                                                              | 98.9                                                                                           | 1373                               | 33.1                                                               | 198                         |
| <b>Region II</b>     |                                                                                   |                                                                                                |                                    |                                                                    |                             |
| Mastung              | 88.5                                                                              | 93.9                                                                                           | 2245                               | 27.8                                                               | 276                         |
| Kalat                | 81.9                                                                              | 77.0                                                                                           | 3945                               | 45.5                                                               | 464                         |
| Khuzdar              | 73.9                                                                              | 97.8                                                                                           | 5972                               | 34.6                                                               | 872                         |
| Awaran               | 47.2                                                                              | 93.5                                                                                           | 1308                               | 53.1                                                               | 243                         |
| Lasbela              | 88.8                                                                              | 93.9                                                                                           | 3544                               | 43.8                                                               | 571                         |
| Kharan               | 87.9                                                                              | 89.8                                                                                           | 1804                               | 45.5                                                               | 268                         |
| Washuk               | 81.8                                                                              | 89.2                                                                                           | 693                                | 45.1                                                               | 139                         |
| <b>Region III</b>    |                                                                                   |                                                                                                |                                    |                                                                    |                             |
| Ziarat               | 48.5                                                                              | 79.6                                                                                           | 556                                | 58.1                                                               | 65                          |
| Harnai               | 67.5                                                                              | 93.5                                                                                           | 1129                               | 41.3                                                               | 147                         |
| Sibi                 | 79.7                                                                              | 68.9                                                                                           | 1187                               | 28.4                                                               | 159                         |
| Dera Bugti           | 82.9                                                                              | 65.1                                                                                           | 2861                               | 37.6                                                               | 345                         |
| Kohlu                | 76.1                                                                              | 71.7                                                                                           | 2395                               | 36.3                                                               | 281                         |
| <b>Region IV</b>     |                                                                                   |                                                                                                |                                    |                                                                    |                             |
| Qilla Saifullah      | 80.0                                                                              | 95.3                                                                                           | 2744                               | 50.4                                                               | 289                         |
| Zhob                 | 69.9                                                                              | 100.0                                                                                          | 2763                               | 55.4                                                               | 309                         |
| Sherani              | 61.2                                                                              | 87.7                                                                                           | 1028                               | 43.5                                                               | 146                         |
| Musakhail            | 46.4                                                                              | 100.0                                                                                          | 1426                               | 63.6                                                               | 201                         |
| Loralai              | 62.5                                                                              | 94.3                                                                                           | 4044                               | 44.6                                                               | 539                         |
| Barkhan              | 82.0                                                                              | 89.8                                                                                           | 1395                               | 52.0                                                               | 193                         |
| <b>Region V</b>      |                                                                                   |                                                                                                |                                    |                                                                    |                             |
| Jafarabad            | 57.4                                                                              | 74.8                                                                                           | 6322                               | 37.2                                                               | 720                         |
| Naseerabad           | 15.9                                                                              | 59.4                                                                                           | 3560                               | 69.1                                                               | 427                         |
| Jhal Magsi           | 23.5                                                                              | 58.6                                                                                           | 1472                               | 75.0                                                               | 188                         |
| Bolan                | 44.8                                                                              | 67.5                                                                                           | 3788                               | 74.5                                                               | 513                         |
| <b>Region VI</b>     |                                                                                   |                                                                                                |                                    |                                                                    |                             |
| Panjgoor             | 73.8                                                                              | 82.5                                                                                           | 2615                               | 31.1                                                               | 376                         |
| Kech                 | 88.9                                                                              | 100.0                                                                                          | 6378                               | 9.2                                                                | 848                         |
| Gawader              | 73.4                                                                              | 96.1                                                                                           | 2048                               | 41.5                                                               | 315                         |

**Table 10: Percentage of household population having improved water source and improved sanitation by district, Balochistan Province, Pakistan, 2010**

| Name of district     | Percentage | Number of household members |
|----------------------|------------|-----------------------------|
| <b>Region I</b>      |            |                             |
| Quetta Zarghoon Town | 81.0       | 5285                        |
| Quetta Chilton Town  | 68.8       | 4286                        |
| Pishin               | 48.7       | 5527                        |
| Qilla Abdullah       | 94.1       | 4315                        |
| Noshki               | 55.4       | 1180                        |
| Chagai               | 33.4       | 1373                        |
| <b>Region II</b>     |            |                             |
| Mastung              | 46.7       | 2245                        |
| Kalat                | 44.3       | 3945                        |
| Khuzdar              | 57.9       | 5972                        |
| Awaran               | 25.3       | 1308                        |
| Lasbela              | 52.7       | 3544                        |
| Kharan               | 49.6       | 1804                        |
| Washuk               | 53.3       | 693                         |
| <b>Region III</b>    |            |                             |
| Ziarat               | 18.2       | 556                         |
| Harnai               | 30.0       | 1129                        |
| Sibi                 | 63.1       | 1187                        |
| Dera Bugti           | 64.8       | 2861                        |
| Kohlu                | 59.5       | 2395                        |
| <b>Region IV</b>     |            |                             |
| Qilla Saifullah      | 17.9       | 2744                        |
| Zhob                 | 40.5       | 2763                        |
| Sherani              | 30.4       | 1028                        |
| Musakhail            | 20.3       | 1426                        |
| Loralai              | 33.2       | 4044                        |
| Barkhan              | 49.2       | 1395                        |
| <b>Region V</b>      |            |                             |
| Jafarabad            | 34.3       | 6322                        |
| Naseerabad           | 11.2       | 3560                        |
| Jhal Magsi           | 14.5       | 1472                        |
| Bolan                | 26.2       | 3788                        |
| <b>Region VI</b>     |            |                             |
| Panjgoor             | 64.8       | 2615                        |
| Kech                 | 77.8       | 6378                        |
| Gawader              | 50.2       | 2048                        |



**Table 11: Percentage of currently married women using any method of contraception by districts, Balochistan Province, Pakistan, 2010**

| Name of district     | Percentage | Number of currently married women |
|----------------------|------------|-----------------------------------|
| <b>Region I</b>      |            |                                   |
| Quetta Zarghoon Town | 28.2       | 643                               |
| Quetta Chilton Town  | 21.0       | 525                               |
| Pishin               | 9.1        | 697                               |
| Qilla Abdullah       | 34.3       | 524                               |
| Noshki               | 6.8        | 112                               |
| Chagai               | 10.7       | 149                               |
| <b>Region II</b>     |            |                                   |
| Mastung              | 12.6       | 282                               |
| Kalat                | 8.8        | 472                               |
| Khuzdar              | 6.2        | 823                               |
| Awaran               | 18.6       | 199                               |
| Lasbela              | 23.2       | 486                               |
| Kharan               | 8.8        | 222                               |
| Washuk               | 5.0        | 102                               |
| <b>Region III</b>    |            |                                   |
| Ziarat               | 8.1        | 74                                |
| Harnai               | 14.2       | 149                               |
| Sibi                 | 15.2       | 153                               |
| Dera Bugti           | 0.3        | 271                               |
| Kohlu                | 2.6        | 265                               |
| <b>Region IV</b>     |            |                                   |
| Qilla Saifullah      | 3.0        | 373                               |
| Zhob                 | 0.7        | 315                               |
| Sherani              | 5.7        | 114                               |
| Musakhail            | 1.6        | 202                               |
| Loralai              | 5.0        | 485                               |
| Barkhan              | 2.4        | 175                               |
| <b>Region V</b>      |            |                                   |
| Jafarabad            | 12.2       | 884                               |
| Naseerabad           | 21.0       | 494                               |
| Jhal Magsi           | 20.0       | 188                               |
| Bolan                | 8.9        | 548                               |
| <b>Region VI</b>     |            |                                   |
| Panjgoor             | 16.6       | 287                               |
| Kech                 | 36.2       | 791                               |
| Gawader              | 18.8       | 259                               |

**Table 12: Percentage of women who visited a health professional for ANC during last pregnancy in two years prior to survey; percentage of women whose last pregnancy was assisted by a skilled professional; and percentage of women by place of delivery, by districts, Balochistan Province, Pakistan, 2010**

| Name of Districts    | Percentage             |                      |                                                         |                   |                              | Number of women who gave birth in the preceding two years |
|----------------------|------------------------|----------------------|---------------------------------------------------------|-------------------|------------------------------|-----------------------------------------------------------|
|                      | At least one ANC visit | 4 or more ANC visits | Last delivery assisted by a skilled health professional | Delivered at Home | Delivered at Health facility |                                                           |
| <b>Region I</b>      |                        |                      |                                                         |                   |                              |                                                           |
| Quetta Zarghoon Town | 75.0                   | 34.9                 | 73.0                                                    | 27.2              | 70.5                         | 180                                                       |
| Quetta Chilton Town  | 67.3                   | 29.7                 | 66.5                                                    | 38.9              | 61.1                         | 132                                                       |
| Pishin               | 37.1                   | 7.8                  | 25.4                                                    | 76.2              | 23.8                         | 219                                                       |
| Qilla Abdullah       | 16.5                   | 4.8                  | 12.0                                                    | 85.0              | 14.1                         | 182                                                       |
| Noshki               | (32.8)                 | (14.8)               | (26.5)                                                  | (85.6)            | (14.4)                       | 27                                                        |
| Chagai               | 18.8                   | 1.1                  | 1.1                                                     | 95.0              | 2.2                          | 51                                                        |
| <b>Region II</b>     |                        |                      |                                                         |                   |                              |                                                           |
| Mastung              | 37.4                   | 12.5                 | 31.6                                                    | 82.4              | 17.0                         | 79                                                        |
| Kalat                | 14.6                   | 7.2                  | 12.9                                                    | 89.0              | 6.9                          | 117                                                       |
| Khuzdar              | 25.4                   | 3.8                  | 7.9                                                     | 96.3              | 2.5                          | 152                                                       |
| Awaran               | (30.5)                 | (9.0)                | (2.7)                                                   | (97.3)            | (2.7)                        | 23                                                        |
| Lasbela              | 46.8                   | 8.4                  | 28.9                                                    | 74.9              | 24.1                         | 133                                                       |
| Kharan               | 24.5                   | 8.2                  | 13.2                                                    | 87.6              | 10.0                         | 53                                                        |
| Washuk               | (*)                    | (*)                  | (*)                                                     | (*)               | (*)                          | 7                                                         |
| <b>Region III</b>    |                        |                      |                                                         |                   |                              |                                                           |
| Ziarat               | 29.1                   | 5.6                  | 14.3                                                    | 83.8              | 14.3                         | 18                                                        |
| Harnai               | 34.5                   | 4.1                  | 16.9                                                    | 83.9              | 14.2                         | 25                                                        |
| Sibi                 | 53.9                   | 25.6                 | 47.0                                                    | 47.9              | 45.6                         | 35                                                        |
| Dera Bugti           | (22.6)                 | (3.8)                | (13.7)                                                  | (90.1)            | (9.9)                        | 28                                                        |
| Kohlu                | 68.6                   | 14.1                 | 2.3                                                     | 96.2              | 2.8                          | 59                                                        |
| <b>Region IV</b>     |                        |                      |                                                         |                   |                              |                                                           |
| Qilla Saifullah      | 33.9                   | 2.6                  | 17.0                                                    | 82.2              | 16.8                         | 114                                                       |
| Zhob                 | 45.7                   | 3.9                  | 32.2                                                    | 86.2              | 9.8                          | 61                                                        |
| Sherani              | (*)                    | (*)                  | (*)                                                     | (*)               | (*)                          | 6                                                         |
| Musakhail            | (.0)                   | (0.0)                | (1.5)                                                   | (98.5)            | (1.5)                        | 15                                                        |
| Loralai              | 26.8                   | 1.2                  | 31.1                                                    | 76.3              | 18.2                         | 71                                                        |
| Barkhan              | (20.4)                 | (0.0)                | (6.5)                                                   | (87.3)            | (6.5)                        | 19                                                        |
| <b>Region V</b>      |                        |                      |                                                         |                   |                              |                                                           |
| Jafarabad            | 37.3                   | 14.1                 | 30.9                                                    | 62.8              | 26.8                         | 241                                                       |
| Naseerabad           | 30.0                   | 11.2                 | 21.7                                                    | 77.8              | 19.7                         | 130                                                       |
| Jhal Magsi           | (32.0)                 | (6.1)                | (9.4)                                                   | (90.6)            | (9.4)                        | 23                                                        |
| Bolan                | 28.8                   | 5.3                  | 20.9                                                    | 84.5              | 14.0                         | 82                                                        |
| <b>Region VI</b>     |                        |                      |                                                         |                   |                              |                                                           |
| Panjgoor             | (*)                    | (*)                  | (*)                                                     | (*)               | (*)                          | 10                                                        |
| Kech                 | 64.4                   | 9.0                  | 61.9                                                    | 51.8              | 46.3                         | 147                                                       |
| Gawader              | 44.2                   | 11.9                 | 16.7                                                    | 83.3              | 16.7                         | 49                                                        |

Note: Figures shown in parenthesis are based on denominators of 25-49 un-weighted cases and figures shown by an (\*) are based on denominators of 24 un-weighted cases and less.

**Table 13: Primary and Secondary School (Adjusted) Net Attendance Ratio, by districts, Balochistan Province, Pakistan, 2010**

| Name of Districts    | Net Attendance Ratio-Primary |        |       |               | Net Attendance Ratio-Secondary |        |       |               |
|----------------------|------------------------------|--------|-------|---------------|--------------------------------|--------|-------|---------------|
|                      | Male                         | Female | Total | # of children | Male                           | Female | Total | # of children |
| <b>Region I</b>      |                              |        |       |               |                                |        |       |               |
| Quetta Zarghoon Town | 65.7                         | 64.7   | 65.2  | 890           | 48.6                           | 37.2   | 43.1  | 826           |
| Quetta Chilton Town  | 54                           | 43.4   | 49    | 735           | 40                             | 33.9   | 37.3  | 704           |
| Pishin               | 53.2                         | 36.8   | 45.9  | 941           | 30.6                           | 7.8    | 19.4  | 918           |
| Qilla Abdullah       | 62.5                         | 27.8   | 49.4  | 696           | 55                             | 7.6    | 29    | 729           |
| Noshki               | 37.7                         | 29.6   | 33.6  | 214           | 25.3                           | 17.7   | 21.3  | 180           |
| Chagai               | 47.5                         | 33.5   | 40.5  | 209           | 25.5                           | 14.6   | 20.1  | 203           |
| <b>Region II</b>     |                              |        |       |               |                                |        |       |               |
| Mastung              | 42.1                         | 28.3   | 35.4  | 384           | 25.5                           | 13.7   | 19.9  | 363           |
| Kalat                | 35.5                         | 39.5   | 37.2  | 746           | 24.9                           | 19     | 22.8  | 521           |
| Khuzdar              | 38.2                         | 33.4   | 36    | 1274          | 9.6                            | 9.9    | 9.8   | 1068          |
| Awaran               | 18.2                         | 20.9   | 19.4  | 273           | 23.1                           | 26.2   | 24.5  | 142           |
| Lasbela              | 64.8                         | 55.4   | 60.9  | 595           | 40.8                           | 20.4   | 31.4  | 584           |
| Kharan               | 25.3                         | 24.6   | 25    | 316           | 23.9                           | 6.1    | 16.1  | 245           |
| Washuk               | 20.1                         | 15     | 17.6  | 134           | 22.4                           | 3.3    | 13.2  | 74            |
| <b>Region III</b>    |                              |        |       |               |                                |        |       |               |
| Ziarat               | 48.8                         | 33.2   | 41.1  | 108           | 46.4                           | 14.5   | 31.8  | 83            |
| Harnai               | 45.4                         | 27.3   | 37.8  | 211           | 20.4                           | 11.1   | 16.2  | 182           |
| Sibi                 | 51.9                         | 49.9   | 51    | 191           | 48.3                           | 24.9   | 37.7  | 182           |
| Dera Bugti           | 37.1                         | 40.8   | 38.3  | 656           | 37.7                           | 0.3    | 23.1  | 458           |
| Kohlu                | 60.7                         | 47.4   | 56.5  | 537           | 55.7                           | 5.4    | 37.1  | 342           |
| <b>Region IV</b>     |                              |        |       |               |                                |        |       |               |
| Qilla Saifullah      | 36.7                         | 21.1   | 29.2  | 542           | 17                             | 6.2    | 11.7  | 419           |
| Zhob                 | 30.8                         | 29.5   | 30.2  | 484           | 22.7                           | 13.6   | 18.4  | 417           |
| Sherani              | 28.8                         | 18.8   | 24.4  | 191           | 18.1                           | 6.2    | 12.8  | 150           |
| Musakhail            | 35                           | 21.9   | 29.6  | 265           | 19.7                           | 6.2    | 15    | 179           |
| Loralai              | 25                           | 17.7   | 22.2  | 806           | 17.8                           | 10     | 14.6  | 604           |
| Barkhan              | 40.8                         | 35.6   | 38.6  | 276           | 42.6                           | 16.7   | 31.8  | 211           |
| <b>Region V</b>      |                              |        |       |               |                                |        |       |               |
| Jafarabad            | 42.4                         | 33.1   | 38    | 1161          | 30.6                           | 14.1   | 22.3  | 848           |
| Naseerabad           | 35.4                         | 20.9   | 29.2  | 695           | 28.5                           | 6.3    | 16.9  | 615           |
| Jhal Magsi           | 41.6                         | 25.1   | 34.5  | 279           | 29.4                           | 4.3    | 17.5  | 243           |
| Bolan                | 43.4                         | 33.3   | 39.1  | 662           | 30.1                           | 9.6    | 20.7  | 564           |
| <b>Region VI</b>     |                              |        |       |               |                                |        |       |               |
| Panjgoor             | 61.7                         | 61.2   | 61.5  | 467           | 47.9                           | 46.7   | 47.5  | 451           |
| Kech                 | 83.9                         | 81.4   | 82.7  | 1336          | 68.1                           | 57.3   | 63.1  | 1267          |
| Gawader              | 59.5                         | 49.2   | 55.5  | 309           | 40.6                           | 31.4   | 36.2  | 338           |

**Table 14: Education Gender Parity Index (GPI), by district, Balochistan Province, Pakistan, 2010**

| Districts            | Primary school Adjusted NAR | Primary school Adjusted NAR | Gender Parity Index | Secondary school Adjusted NAR | Secondary Adjusted NAR | Gender Parity Index |
|----------------------|-----------------------------|-----------------------------|---------------------|-------------------------------|------------------------|---------------------|
|                      | Girls                       | Boys                        |                     | Girls                         | Boys                   |                     |
| <b>Region I</b>      |                             |                             |                     |                               |                        |                     |
| Quetta Zarghoon Town | 64.7                        | 65.7                        | 1.0                 | 42.9                          | 49.4                   | 0.9                 |
| Quetta Chilton Town  | 43.4                        | 54.0                        | 0.8                 | 40.2                          | 41.4                   | 1.0                 |
| Pishin               | 36.8                        | 53.2                        | 0.7                 | 8.0                           | 26.3                   | 0.3                 |
| Qilla Abdullah       | 27.8                        | 62.5                        | 0.4                 | 8.7                           | 47.1                   | 0.2                 |
| Noshki               | 29.6                        | 37.7                        | 0.8                 | 17.9                          | 25.2                   | 0.7                 |
| Chagai               | 33.5                        | 47.5                        | 0.7                 | 16.4                          | 21.9                   | 0.7                 |
| <b>Region II</b>     |                             |                             |                     |                               |                        |                     |
| Mastung              | 28.3                        | 42.1                        | 0.7                 | 10.5                          | 22.3                   | 0.5                 |
| Kalat                | 39.5                        | 35.5                        | 1.1                 | 17.0                          | 21.3                   | 0.8                 |
| Khuzdar              | 33.4                        | 38.2                        | 0.9                 | 9.3                           | 8.7                    | 1.1                 |
| Awaran               | 20.9                        | 18.2                        | 1.1                 | 23.7                          | 22.4                   | 1.1                 |
| Lasbela              | 55.4                        | 64.8                        | 0.9                 | 23.5                          | 39.6                   | 0.6                 |
| Kharan               | 24.6                        | 25.3                        | 1.0                 | 6.2                           | 19.5                   | 0.3                 |
| Washuk               | 15.0                        | 20.1                        | 0.7                 | 4.0                           | 14.9                   | 0.3                 |
| <b>Region III</b>    |                             |                             |                     |                               |                        |                     |
| Ziarat               | 33.2                        | 48.8                        | 0.7                 | 17.5                          | 46.2                   | 0.4                 |
| Harnai               | 27.3                        | 45.4                        | 0.6                 | 11.4                          | 20.8                   | 0.5                 |
| Sibi                 | 49.9                        | 51.9                        | 1.0                 | 27.9                          | 54.4                   | 0.5                 |
| Dera Bugti           | 40.8                        | 37.1                        | 1.1                 | 0.3                           | 30.4                   | 0.0                 |
| Kohlu                | 47.4                        | 60.7                        | 0.8                 | 4.2                           | 39.7                   | 0.1                 |
| <b>Region IV</b>     |                             |                             |                     |                               |                        |                     |
| Qilla Saifullah      | 21.1                        | 36.7                        | 0.6                 | 6.6                           | 14.9                   | 0.4                 |
| Zhob                 | 29.5                        | 30.8                        | 1.0                 | 17.3                          | 23.2                   | 0.7                 |
| Sherani              | 18.8                        | 28.8                        | 0.7                 | 6.8                           | 17.6                   | 0.4                 |
| Musakhail            | 21.9                        | 35.0                        | 0.6                 | 11.2                          | 24.1                   | 0.5                 |
| Loralai              | 17.7                        | 25.0                        | 0.7                 | 11.1                          | 18.5                   | 0.6                 |
| Barkhan              | 35.6                        | 40.8                        | 0.9                 | 17.8                          | 36.4                   | 0.5                 |
| <b>Region V</b>      |                             |                             |                     |                               |                        |                     |
| Jafarabad            | 33.1                        | 42.4                        | 0.8                 | 12.3                          | 29.7                   | 0.4                 |
| Naseerabad           | 20.9                        | 35.4                        | 0.6                 | 7.2                           | 29.5                   | 0.2                 |
| Jhal Magsi           | 25.1                        | 41.6                        | 0.6                 | 2.5                           | 27.5                   | 0.1                 |
| Bolan                | 33.3                        | 43.4                        | 0.8                 | 11.1                          | 29.3                   | 0.4                 |
| <b>Region VI</b>     |                             |                             |                     |                               |                        |                     |
| Panjgoor             | 61.2                        | 61.7                        | 1.0                 | 55.1                          | 58.0                   | 1.0                 |
| Kech                 | 81.4                        | 83.9                        | 1.0                 | 56.6                          | 67.2                   | 0.8                 |
| Gawader              | 49.2                        | 59.5                        | 0.8                 | 32.0                          | 39.5                   | 0.8                 |

**Table 15: literacy[1] rate by specific age groups and sex, Balochistan Province, Pakistan, 2010**

| Districts            | Age 10 years and above |             | Age 15 years and above |             | Age 15-24 years |             |
|----------------------|------------------------|-------------|------------------------|-------------|-----------------|-------------|
|                      | Male                   | Female      | Male                   | Female      | Male            | Female      |
| <b>Region I</b>      |                        |             |                        |             |                 |             |
| Quetta Zarghoon Town | 78.2                   | 52.7        | 81.1                   | 51.1        | 88.7            | 67.4        |
| Quetta Chilton Town  | 66.4                   | 39.9        | 67.7                   | 37.8        | 78.2            | 60.3        |
| Pishin               | 56.2                   | 17.9        | 61.1                   | 16.2        | 73.5            | 29.5        |
| Qilla Abdullah       | 80.5                   | 17.4        | 81.9                   | 15.0        | 80.5            | 22.6        |
| Noshki               | 32.7                   | 16.5        | 34.6                   | 17.6        | 41.4            | 34.7        |
| Chagai               | 33.7                   | 15.5        | 36.9                   | 15.1        | 48.5            | 27.5        |
| <b>Region II</b>     |                        |             |                        |             |                 |             |
| Mastung              | 39.4                   | 15.3        | 39.5                   | 14.5        | 46.6            | 27.9        |
| Kalat                | 39.2                   | 18.2        | 40.2                   | 14.8        | 50.5            | 35.1        |
| Khuzdar              | 24.9                   | 11.3        | 27.4                   | 10.3        | 35.7            | 24.7        |
| Awaran               | 29.5                   | 12.4        | 27.8                   | 8.4         | 46.9            | 17.9        |
| Lasbela              | 47.3                   | 22.0        | 47.6                   | 20.0        | 66.2            | 36.9        |
| Kharan               | 37.1                   | 9.3         | 40.2                   | 8.1         | 45.4            | 20.0        |
| Washuk               | 42.0                   | 10.3        | 42.6                   | 6.2         | 61.7            | 19.0        |
| <b>Region III</b>    |                        |             |                        |             |                 |             |
| Ziarat               | 57.2                   | 22.8        | 60.9                   | 22.3        | 74.6            | 45.4        |
| Harnai               | 40.0                   | 15.3        | 41.8                   | 14.2        | 50.3            | 28.9        |
| Sibi                 | 59.4                   | 30.2        | 60.3                   | 27.7        | 74.6            | 46.1        |
| Dera Bugti           | 31.0                   | .9          | 39.4                   | 1.3         | 57.5            | 8.0         |
| Kohlu                | 36.6                   | 2.8         | 42.9                   | 1.8         | 71.2            | 5.6         |
| <b>Region IV</b>     |                        |             |                        |             |                 |             |
| Qilla Saifullah      | 36.2                   | 8.8         | 39.8                   | 7.6         | 47.7            | 14.4        |
| Zhob                 | 28.3                   | 12.9        | 27.8                   | 9.3         | 32.1            | 17.5        |
| Sherani              | 23.6                   | 7.9         | 22.6                   | 5.6         | 27.4            | 5.9         |
| Musakhail            | 32.3                   | 10.3        | 34.4                   | 8.8         | 34.7            | 15.9        |
| Loralai              | 28.5                   | 11.9        | 29.7                   | 10.6        | 31.0            | 23.1        |
| Barkhan              | 42.7                   | 12.6        | 46.2                   | 9.4         | 64.7            | 19.1        |
| <b>Region V</b>      |                        |             |                        |             |                 |             |
| Jafarabad            | 52.2                   | 21.1        | 53.2                   | 18.5        | 63.3            | 35.2        |
| Naseerabad           | 45.7                   | 10.7        | 46.8                   | 8.7         | 58.9            | 15.0        |
| Jhal Magsi           | 36.5                   | 8.2         | 37.6                   | 7.9         | 47.8            | 15.0        |
| Bolan                | 34.5                   | 13.7        | 33.4                   | 11.4        | 41.7            | 21.3        |
| <b>Region VI</b>     |                        |             |                        |             |                 |             |
| Panjgoor             | 74.4                   | 45.4        | 73.3                   | 39.0        | 80.7            | 71.9        |
| Kech                 | 71.9                   | 50.4        | 68.5                   | 39.6        | 94.8            | 76.9        |
| Gawader              | 48.3                   | 30.6        | 49.4                   | 26.7        | 64.1            | 54.4        |
| <b>Total</b>         | <b>48.2</b>            | <b>22.0</b> | <b>49.8</b>            | <b>19.4</b> | <b>60.9</b>     | <b>35.5</b> |

Note [1]: Literacy is based on respondent's statement that the person can read and write a simple letter with understanding and is different from the one mentioned elsewhere in this report.

BALUCHISTAN  
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