

Summary Table of Findings

Multiple Indicator Cluster Surveys (MICS) and Millennium Development Goals (MDG) Indicators, Somalia, 2006

	MICS	MDG			
Торіс	Indicator	Indicator	Indicator		Value
	Number	Number			
CHILD MORTALITY					
Child mortality	1	13	Under-five mortality rate	135	per thousand
	2	14	Infant mortality rate	86	per thousand
NUTRITION					
Nutritional status	6	4	Underweight prevalence	36	Percent
	7		Stunting prevalence	38	Percent
	8		Wasting prevalence	11	Percent
Breastfeeding	45		Timely initiation of breastfeeding	26	Percent
	15		Exclusive breastfeeding rate	13	Percent
	16		Continued breastfeeding rate		
			at 12-15 months	50	Percent
			at 20-23 months	35	Percent
	17		Timely complementary feeding rate	15	Percent
	18		Frequency of complementary feeding	12	Percent
	19		Adequately fed infants	11	Percent
Salt iodization	41		lodized salt consumption	1.2	Percent
Vitamin A	42		Vitamin A supplementation (under-fives)	24	Percent
	43		Vitamin A supplementation (post-partum mothers)	9	Percent
Low birth weight	10	-	Infants weighed at birth	5	Percent
CHILD HEALTH					
Immunization	25		Tuberculosis immunization coverage	26	Percent
	26		Polio immunization coverage	35	Percent
	27		DPT immunization coverage	12	Percent
	28	15	Measles immunization coverage	19	Percent
	31		Fully immunized children	5	Percent
Tetanus toxoid	32		Neonatal tetanus protection	26	Percent
Care of illness	33		Use of oral rehydration therapy (ORT)	21	Percent
	34		Home management of diarrhoea	2	Percent
	35		Received UKI or increased fluids, and continued feeding	/	
	00			10	Percent
	23		Care seeking for suspected pneumonia	13	Percent
Calid fuel use	22	20	Antibiotic treatment of suspected pneumonia	<u> </u>	Percent
Solid tuel use	24	29	Solid Tuels	100	Percent
IVIBIBITB	30	22	Household availability of Insecticide-treated hets (Thys)	11	Percent
	37	22	Under-lives sleeping under maeguite pate	10	Percent
	30	22	Antimelarial treatment (under fives)	10	Percent
	39	22	Anumalanai treatment (under-inves)	3 1	Percent
	40		Internittent preventive maiana treatment (pregnant women)	1	Percent
EINVIRUINIVIEINI	11	20	Line of improved drinking water sources	20	porcont
Sonitation	10	30	Weter treatment	29	percent
Janildliuli	13 12	01	VValer reduiteril	22	percent
	1Z	31	Disposal of shild's faceos	37 25	percent
	14			30	percent
	21	190	Contracentive prevalence	15	nercent
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	MICS	MDG			
Topic	Indicator	Indicator	Indicator		Value
	Number	Number			
	20		Antenatal care	26	percent
Maternal and	44		Content of antenatal care:		
newborn health			Blood test taken	14	percent
			Blood pressure measured	21	percent
			Uring Specimen taken	Q	percent
			Weight measured	3	percent
	4	17	Skilled attendent at delivery	22	Percent
	4	17		33 Q	percent
Maternal mortality	3	16	Maternal mortality ratio	1044	percent
Fertility	0	10	Total Fertility Bate	67	rate
CHILD DEVELOPMENT				0.7	1410
Child development	46		Support for learning	65	percent
	47		Father's support for learning	39	percent
EDUCATION					
Education	52		Pre-school attendance	2	percent
	54		Net intake rate in primary education	9	percent
	55	6	Net primary school attendance rate	23	percent
	56		Net secondary school attendance rate	7	percent
	57	7	Children reaching grade five	92	percent
	59	7b	Primary completion rate	4	percent
	61	9	Gender parity index: primary school	0.8	ratio
			secondary school	0.5	ratio
Literacy	60	8	Adult literacy rate	25	percent
CHILD PROTECTION					
Birth registration	62		Birth registration	3	percent
Child labour	71		Child labour	49	percent
	72		Labourer students	44	percent
	73		Student labourers	44	percent
Early marriage and	67		Marriage before age 15	8	percent
polygyny			Marriage before age 18	46	percent
	68		Young women aged 15-19 currently married/in union	25	percent
	70		Polygyny	23	percent
	69		Spousal age difference (10 years)		
			Women age 15-19	31	percent
			Women age 20-24	30	percent
Female genital	66		Approval for FGM/C	65	percent
mutilation/	63		Prevalence of female genital mutilation/cutting (FGM/C)	98	, percent
cutting	64		Prevalence of extreme form of FGM/C	77	percent
5	65		FGM/C prevalence among daughters	46	percent
Domestic violence	100		Attitudes towards domestic violence	76	percent
Orphaned children	75		Prevalence of orphans	10	percent
	78		Children's living arrangements	9	percent
	77	20	School attendance of orphans versus non-orphans	0.9	ratio
	79		Malnutrition among children orphaned and made vulnerable by HIV/AIDS	1.1	ratio
HIV/AIDS					
HIV/AIDS	82	19b	Comprehensive knowledge about HIV prevention among	4	percent
knowledge and			young people		
attitudes	89		Knowledge of mother- to-child transmission of HIV	38	percent
	86		Attitude towards people with HIV/AIDS	5	percent
	87		Women who know where to be tested for HIV	16	percent
	88		Women who have been tested for HIV	3	percent

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List of Abbreviations

AIDS	Acquired Immune Deficiency Syndrome
BCG	Bacillis-Cereus-Geuerin (Tuberculosis)
DPT	Diphteria Pertussis Tetanus
ЕРІ	Expanded Programme on Immunization
HIV	Human Immunodeficiency Virus
IDD	Iodine Deficiency Disorders
ITN	Insecticide Treated Net
IUD	Intrauterine Device
LAM	Lactational Amenorrhea Method
MDG	Millennium Development Goals
MICS	Multiple Indicator Cluster Survey
MoH	Ministry of Health
NAR	Net Attendance Rate
ppm	Parts Per Million
PAPFAM	Pan Arab Project for Family Health
SPSS	Statistical Package for Social Sciences
TFR	Total fertility Rate
UNAIDS	United Nations Programme on HIV/AIDS
UNDP	United Nations Development Programme
UNFPA	United Nations Population Fund
UNGASS	United Nations General Assembly Special Session on HIV/AIDS
UNICEF	United Nations Children's Fund
WFFC	World Fit For Children
WHO	World Health Organization

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 - o Samawada Rehabilitation and Development Organisation (Lower Shabelle)
 - Community Care Centre (Bay Region)
 - Community Research and Development Group (Benadir Region)
 - Himilo Relief, Rehabilitation and Development Association (Gedo Region)
 - o Hiran HIV/AIDS Prevention and Child Protection (Hiran Region)
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Disclaimer

This Somali 2006 MICS covers all regions of Somalia. For the purposes of this survey, the analysis refers to the North West Zone, the North East Zone and Central South Zone according to prewar boundaries for Somaliland and Puntland and does not imply any recognition of administrative boundaries by the United Nations or the League of Arab States. This will allow some comparison with the previous MICS surveys, and is consistent with the common approach adopted by the UN Country Team Statistics Working Group.

Executive Summary

The 2006 Multiple Indicator Cluster Survey (MICS) is a nationally representative survey of 5969 households, 6764 women age 15-49 and 6305 mother's and caretakers of children age less than five. The primary purpose of the MICS is to provide policy makers and planners with reliable and detailed information needed to monitor the situation of women and children. Information on child mortality, nutrition, child health, child protection, water and sanitation, education, reproductive health, knowledge of HIV/AIDS and fertility is included.

Child Mortality

- At current mortality levels, one in every twelve Somali children dies before reaching age one, while one in every 7 does not survive to the fifth birthday.
- The highest levels of mortality are found in the Central South Zone.
- Male children experience higher mortality than female children and the sex difference is especially pronounced for infant mortality.

Immunisation

- Twelve percent of children age 12 -23 months had been fully vaccinated at the time of the survey.
- Five percent received all their vaccinations before the age of one year.
- Thirty percent of children age 12-23 months have received the BCG vaccination, and 29 percent have been vaccinated against measles.
- Just under a quarter of children age 12-23 months have received the DPT1 vaccination; only 14 percent however then go on to receive the third dose of DPT.
- Polio coverage is higher than DPT because of the efforts of the national immunisation campaigns during which polio vaccinations are administered on a wide scale. Thirty-nine percent have received polio 3; nevertheless the dropout between the first and subsequent doses of polio is high.
- Thirty-six percent of children age 12-23 months, have not received any of the basic vaccinations.

Diarrhea

- Nationally 21 percent of children under age five had diarrhea at some time in the two weeks before the survey.
- Around one in five children who had diarrhea were treated with some kind of oral rehydration therapy (ORT): 9 percent were treated with ORS (solution prepared from ORS packets); 9 percent were given recommended home fluids (RHF) prepared at home; and 7 percent were given pre-packaged ORS fluid.
- Just under 80 percent of children with diarrhea did not receive any type of treatment at all.

Acute respiratory Infection (ARI)

- Fifteen percent of children under age five showed symptoms of ARI in the two weeks before the survey.
- Use of a health facility for the treatment of symptoms of ARI is low, with only 13 percent of children taken to an appropriate health facility or provider.
- Thirty-two percent of children under age five who showed symptoms of ARI in the two weeks before the survey received antibiotics.
- Just fifteen percent of mothers and caretakers identified that fast and difficult breathing would be cause for taking their children immediately to a health facility.

• The risk of acute respiratory illness is increased by the near universal use of solid fuels used for cooking in Somali households. Almost 100 percent of Somali households use solid fuels for cooking and just one in ten households have a hood or chimney above their open fire or stove.

Mosquito nets

- One in five Somali households own at least one mosquito net, with 11 percent of households owning a long lasting insecticide treated net (ITN).
- Eighteen percent of children under age 5 slept under a bed-net during the night prior to the interview; with 11 percent of children sleeping under an ITN.

Nutrition

- The level of malnutrition is significant with at least one in three (36 percent) Somali children under five years of age that are underweight, 38 percent stunted (short for their age) and 11 percent wasted (thin for their height).
- In general rural children and children of uneducated mothers are more likely to be underweight, stunted or wasted than other children.

Breastfeeding

- Three out of five children are breastfed within one day of being born.
- Among children age 12-15 months just half are still breastfed, this falls to 35 percent among children age 20-23 months.
- Exclusive breastfeeding levels are very low, contrary to UNICEF/WHO recommendations, only 9 percent of Somali children age 0-6 months are exclusively breastfed.
- Complementary foods are not introduced in a timely fashion for many children. At 6-11 months, just 12 percent of children are receiving the recommended number of complementary feedings.
- Among children age 0-11 months, only one in ten children are considered appropriately fed.

Water

- Twenty-nine percent of the Somali population has access to an improved source of drinking water.
- A quarter of those living in the North East and Central South Zone have access to improved sources, however access to improved water sources is above the national average in the North West Zone.
- One fifth of the Somali population uses an appropriate method to treat their water in the household.
- People from households in urban areas and where the household head has had some form of formal education are more likely to use an appropriate water treatment method than others.
- On average it takes one hour and twelve minutes to go to the source of drinking water, get the water and then return. The time it takes to collect water is significantly longer for households in rural areas and households in the Central South Zone.
- In two thirds of households an adult women bears the responsibility for collecting water.

Sanitation

- Half of the Somali population is living without any type of toilet facilities.
- Thirty-seven percent are using a facility with a sanitary means of excreta disposal.
- Just over three quarters of Somalis living in urban areas are using a sanitary means of excreta disposal compared to 13 percent of people living in rural areas.
- When it comes to disposing of child's faeces, over a third of children age 0-2 months (35 percent) have their stools disposed of in a safe way.

• One fifth of the Somali population is using both an improved source of drinking water and a sanitary means of excreta disposal. Zonal differences are small but the difference between those living in urban and rural households is substantial.

Fertility

- The total fertility rate is 6.7 births per woman.
- There are no substantial differences in fertility by zone or urban/rural residence; rural women have on average just one more child than urban women by the end of their childbearing years.

Contraception

- Fifteen percent of married women age 15-49 are using a method of family planning.
- One percent of women using a method of family planning are using a modern method. The most commonly used modern method is the pill, although usage is extremely low.
- The most popular non modern method is the lactational amenorrhea method (LAM).

Antenatal care

- Twenty-six percent of mothers who had a live birth in the two years preceding the survey received antenatal care from a doctor, nurse or trained midwife.
- Among women who received antenatal care: 14 percent had a blood test taken, 21 percent had their blood pressure measured, 9 percent had a urine specimen and 22 percent had their weight measured.
- On average women receiving antenatal care would have 2 checkups.
- Approximately seven in ten mothers did not receive any antenatal care; half of the women not receiving antenatal care reported that they did not feel the need to see anyone.

Assistance at delivery of births

- Nine percent of births in the two years prior to the survey were delivered in a health facility.
- A third of the births were delivered at home with the assistance of skilled health personnel, that is, a doctor, nurse or midwife.
- Fifty-one percent of births are attended by a traditional birth attendant (TBA).
- Three percent of births were delivered without any type of assistance at all.

Maternal Mortality

• The maternal mortality ratio, which measures the obstetric risk associated with each live birth is 1044 deaths per 100,000 live births.

Education

- Early childhood education is rare in Somalia and is attended by just 2 percent of Somali children age 3-5.
- Nine percent of children age 6, which is the primary school entry age, are currently attending the first grade.
- Of all children of primary school age (6-13 years old), approximately 23 percent are attending primary school.
- Seven percent of secondary school age children (14-18 years old) are attending secondary or higher education.
- Just under one fifth (19 percent) of secondary school age children are still attending primary school.
- Data show that the primary school completion rate stands at just 4 percent.
- For every 10 boys who attend primary school, there are 8 girls. The gender parity index falls even more for secondary school education, with 5 girls attending for every 10 boys.

Literacy

- A quarter of Somali women age 15-24 are literate.
- Women living in urban areas are four and a half times more likely to be able to read than women living in urban areas.

Birth Registration

• Three percent of children under 5 years old had their birth registered. Registration is highest in the North West Zone.

Orphans

- Around 10 percent of Somali children have lost either a mother or father.
- One percent of Somali children have lost both parents.

Child Labour

- Almost half of all Somali children (49 percent) are involved in child labour activities. The majority of child labour is centered around working for the family business or spending more than 28 hours a week on household chores.
- Forty-four percent of those children engaged in child labour are also attending school.

Marriage

- Eight percent of women age 15-49 years were married by the time they were 15, the proportion increases to 46 percent by the time women are 18.
- A quarter of Somali women age 15-19 are currently married. In thirty-one percent of these marriages the husband is ten years older than the woman.
- Twenty-three percent of currently married women are married to men who are in a polygamous union.
- Older women and women with no education are more likely to be in a polygamous union than other woman.

FGM/C

- Almost all (98 percent) of women age 15-49 have been circumcised.
- Seventy-seven percent of women reported that they had experienced an extreme form of FGM/C where their vagina had been sewn closed or flesh had been removed.
- Just less than half (46 percent) of women with at least one living daughter, have a daughter who has experienced FGM/C.
- Sixty percent of daughters who have been circumcised have had the extreme form.
- The majority of girls are circumcised between the ages of 5 and 9 years (79 percent).

Attitudes towards domestic violence

- Overall three quarters of ever married women age 15-49 believe that there are at least some situations in which a husband is justified in beating his wife.
- Sixty-four percent of ever married women agree that a husband is justified in beating his wife if his wife refuses to have sex with him.

HIV/AIDS

- Sixty-five percent of women age 15-49 have heard of AIDS.
- Women are most aware that the chances of getting the AIDS virus can be reduced by limiting sex to one uninfected partner (36 percent).
- Knowledge of condoms and the role they can play in preventing the transmission of HIV is low at 15 percent.
- Thirty-four percent of women know that a healthy-looking person can have the AIDS virus.

- Many women erroneously believe that AIDS can be transmitted by supernatural means, mosquito bites and by sharing food.
- A minority of women (4 percent) have comprehensive knowledge of HIV/AIDS transmission, that is, they know that both condom use and limiting sex partners to one uninfected partner are HIV prevention methods; that a healthy-looking person can have HIV; and reject the two most common local misconceptions about HIV/AIDS that AIDS can be transmitted by supernatural means and by mosquito bites.
- Half of women know that HIV can be transmitted by breastfeeding.
- Approximately two fifths of women (38 percent) could identify all three ways of mother to child transmission. Women living in rural areas were more than twice as likely to know all three ways compared to women living in rural areas.
- Almost all women age 15-49 (95 percent) agreed with at least one discriminatory statement towards people living with HIV/AIDS.
- Seventy-three percent of women said they would not buy food from a person living with HIV/AIDS.
- Over half of the women (58 percent) said that they would care for a family member who was sick with AIDS.
- Among the female population age 15-49, 16 percent know of a place to get tested for HIV.
- Three percent of women reported that they had been tested for HIV at some time, and 73 percent of these women had received the results of their test.



I. Introduction

Background

This report is based on the Somali Multiple Indicator Cluster Survey, conducted in 2005 by UNICEF as part of the global UNICEF MICS programme, with technical assistance from the PAPFAM project of the League of Arab States. The survey was conducted with the support and endorsement of:

- Ministry of Planning and International Cooperation, Transitional Federal Government, Somalia
- Ministry of National Planning and Coordination, Hargeisa, Somaliland
- Ministry of Planning and International Cooperation, Garowe, Puntland

The survey provides valuable information on the situation of children and women in Somalia and was based, in large part, on the need to monitor progress towards goals and targets emanating from recent international agreements: the Millennium Declaration, adopted by all 191 United Nations Member States in September 2000, and the Plan of Action of A World Fit For Children, adopted by 189 Member States at the United Nations Special Session on Children in May 2002. Both of these commitments build upon promises made by the international community at the 1990 World Summit for Children.

A Commitment to Action: National and International Reporting Responsibilities

The governments that signed the Millennium Declaration and the World Fit for Children Declaration and Plan of Action also committed themselves to monitoring progress towards the goals and objectives they contained:

"We will monitor regularly at the national level and, where appropriate, at the regional level and assess progress towards the goals and targets of the present Plan of Action at the national, regional and global levels. Accordingly, we will strengthen our national statistical capacity to collect, analyse and disaggregate data, including by sex, age and other relevant factors that may lead to disparities, and support a wide range of child-focused research. We will enhance international cooperation to support statistical capacitybuilding efforts and build community capacity for monitoring, assessment and planning." (A World Fit for Children, paragraph 60)

"...We will conduct periodic reviews at the national and subnational levels of progress in order to address obstacles more effectively and accelerate actions...." (A World Fit for Children, paragraph 61)

The Plan of Action (paragraph 61) also calls for the specific involvement of UNICEF in the preparation of periodic progress reports:

"... As the world's lead agency for children, the United Nations Children's Fund is requested to continue to prepare and disseminate, in close collaboration with Governments, relevant funds, programmes and the specialized agencies of the United Nations system, and all other relevant actors, as appropriate, information on the progress made in the implementation of the Declaration and the Plan of Action."

Similarly, the Millennium Declaration (paragraph 31) calls for periodic reporting on progress:

"...We request the General Assembly to review on a regular basis the progress made in implementing the provisions of this Declaration, and ask the Secretary-General to issue periodic reports for consideration by the General Assembly and as a basis for further action."

This is in addition to the decisions issued by the League of Arab States and other related institutions and organizations with regard to the Arab framework for Arab child rights, the Cairo declaration towards an "Arab World Fit for Children", and the second Arab plan for childhood (2004-2015) adopted by the Arab summits.

In signing these international agreements, governments committed themselves to improving conditions for their children and to monitoring progress towards that end. UNICEF was assigned a supporting role in this task (see table below).

The Somali MICS (2006) follows the first Multiple Indicator Cluster Survey (MICS1) in 1995¹ and the second Multiple Indicator Cluster Survey (MICS2) in 1999 and was designed to provide a credible dataset at the national level in order to assess the situation of children and women in Somalia at the Mid-Decade. The survey was also designed to be able to produce data at the level of zones; the North West Zone (Somaliland), the North East Zone (Puntland) and the Central South Zone of Somalia. The MICS findings will also provide data for monitoring progress (or establishing a baseline) for Somali specific goals (Reconstruction and Development Plan, UN Programmes, GFATM Malaria Programme, Five-Year Development Plans/ Poverty Reduction Strategies).

The third Somali MICS includes many of the same questions and indicators as the 1999 MICS. However, since 1999, the survey methodology and in particular the sample design has undergone many improvements with more involvement from experts in this field. The sample size is also significantly larger. Therefore whilst the MICS should be used as a monitoring tool to identify national changes over time, this is difficult to do when there are wide divergences in sampling methodology between surveys. Therefore making direct comparisons between the 1999 and 2006 MICS has not been encouraged in this report.

This final report presents the results of the indicators and topics covered in the survey.

Survey Objectives

The 2006 Somali MICS has as its primary objectives:

- To provide up-to-date information for assessing the situation of children and women in Somalia.
- To furnish data needed for monitoring progress toward goals established by the Millennium Development Goals, the goals of A World Fit For Children (WFFC), and other internationally agreed upon goals, as a basis for future action;
- To contribute to the improvement of data and monitoring systems in Somalia and to strengthen technical expertise in the design, implementation, and analysis of such systems.

¹ Survey covered Somaliland only.

II. Sample and Survey Methodology

Sample Design

The sample for the Somali Multiple Indicator Cluster Survey and Pan Arab Project for Family Health (MICS/PAPFAM) was designed to provide estimates on a large number of indicators on the situation of children and women at the national level, for urban and rural areas, and for the three zones: North West Zone, North East Zone and Central South Zone. Zones were identified as the main sampling domains and the sample was selected in four stages. Unlike most countries Somalia does not have well developed survey programmes through a national office of statistics or otherwise and has not had a census for more than 20 years. Thus with no predefined census enumeration areas, it was considered necessary to design a new sample frame using the most up-to-date sources of data available.

The target sample size for the Somali MICS was calculated as 6000 households. Within each zone a predetermined number of clusters were selected. In the North East and North West Zones 60 clusters were selected in each². In the Central South Zone 130 clusters were selected making a total of 250 clusters with 24 households in each cluster. Within each region of each zone districts were selected using probability proportional to size (pps); in total 57 districts, out of 114 districts in Somalia were selected. The number of clusters in each district was also allocated according to estimated population size of district. The proportion of urban to non-urban clusters was determined according to the estimated populations falling within each category within each district. The non-urban population includes both the settled population in rural areas as well as the nomadic population.

Within the selected districts permanent and temporary settlements were randomly selected also using probability proportional to size sampling³. In order to ensure than nomads were included in the sample, efforts were made to include temporary settlements near to known water points where nomads would most likely to be found.

The third stage of sampling then involved the selection of the cluster(s) within the settlements. For settlements over the estimated size of 150 households some form of segmentation was necessary. Sketch maps were prepared to divide the settlements into roughly equal sizes of estimated households. Each segment was considered as an enumeration area making it possible to randomly select the required number of clusters.

Once the final clusters had been identified, households were selected randomly using a modified expanded programme for immunisation (EPI) method. The sample was stratified by urban and non-urban and is not self-weighting. For reporting national level results, sample weights are used. A more detailed description of the sample design can be found in Appendix A.

² It should be noted that the decision to allocate an equal number of clusters to the two northern zones of the country was to avoid political disputes over population figures. The data was then reweighed to reflect population estimates during data analyses.

³ Lists of settlements were provided from the UNDP Settlement Survey (draft based on fieldwork 2005) and the most recent WHO Polio vaccination data (2006).

Questionnaires

Three sets of questionnaires were used in the survey: 1) a household questionnaire which was used to collect information on all de jure household members, the household, and the dwelling; 2) a women's questionnaire administered in each household to all women aged 15-49 years; and 3) an under-5 questionnaire normally administered to mothers of under-5 children; in cases when the mother was not listed in the household roster, a primary caretaker for the child was identified and interviewed. Each questionnaire comprised several modules:

The Household Questionnaire included the following:

- Household listing
- Education
- o Water and Sanitation
- Household characteristics
- Child Labour
- o Insecticide Treated Nets
- o Maternal Mortality
- Salt Iodization

The Questionnaire for Individual Women included the following:

- o Child Mortality
- Birth History
- o Tetanus Toxoid
- o Maternal and Newborn Health
- o Marriage/Union
- o Contraception
- o Female Genital Mutilation
- HIV/AIDS

The Questionnaire for Children Under Five included the following:

- o Birth Registration and Early Learning
- o Vitamin A
- o Breastfeeding
- Care of Illness
- o Malaria
- o Immunization
- o Anthropometry

The questionnaires are based on the MICS model questionnaire⁴ with some additional questions included to reflect PAPFAM's interests as well as some country specific questions. From the MICS English version, the questionnaires were translated into Somali and were pre-tested in urban and rural areas in each zone during June and July 2006, efforts were made to ensure that nomadic households were included in the pre-testing. Based on the results of the pre-test, modifications were made to the wording and translation of the questionnaires. A copy of the Somali MICS questionnaires is provided in Appendix F.

⁴ The model MICS questionnaire can be found at www.childinfo.org, or in UNICEF, 2006.

In addition to the administration of questionnaires, fieldwork teams tested the salt used for cooking in the households for iodine content, and measured the weights and heights of children age under 5 years. Details and findings of these measurements are provided in the respective sections of the report.

Training and Fieldwork

Training for the fieldwork was conducted for 16 days in July 2006. Training included lectures on interviewing techniques and the contents of the questionnaires, and mock interviews between trainees to gain practice in asking questions. Towards the end of the training period, trainees spent 2 days practicing the interviews in towns and villages near the training locations (Hargeisa, Garowe, Merca and Wajid).

The data were collected by 20 teams; each team comprised 10 people which included 8 interviewers, one editor/measurer and a supervisor. Fieldwork began in August 2006 and concluded in September 2006.

In order to ensure that teams would have access to all clusters UNICEF worked through local partners who had established reputations in the different regions and had experience of conducting surveys. The partners did not choose the interviewers until the final clusters had been selected, in this way partners were able to use personnel who resided in or had their origins from the different settlements and towns where clusters would occur.

Climatic and Security Consideration

The survey was conducted during the recovery period of an acute drought which had affected regions in the Central South Zone in 2005/2006. The data collection also occurred at a time of relative security allowing access to all selected districts. All but one of the selected clusters was accessed by the field teams. In Middle Juba it was not possible to access one cluster due to perceived insecurity just prior to visiting the cluster. Therefore another cluster with the same characteristics in the same district was randomly selected as an alternative.

Data collection was conducted in the dry season (August/September) which gave the advantage of having access to nomadic communities which settle near known water points. The disadvantage of conducting fieldwork at this time however was that many women and children in the populated northern cities of the North West and North East Zones had travelled south to stay with relatives in cooler climates. Therefore fewer women and children than expected were found in these areas.

Data Processing

Data were entered using the CSPro software. In order to ensure quality control, all questionnaires were double entered and internal consistency checks were performed. Procedures and standard programmes developed under the global MICS project and adapted to the Somali questionnaire were used throughout. Data processing began simultaneously with data collection in September 2006 and was completed in October 2006. Data were analysed using the Statistical Package for Social Sciences (SPSS) software program, Version 14, and the model syntax and tabulation plans developed by UNICEF for this purpose. PAPFAM also assisted in developing the syntax and tabulation for data relating to reproductive health.

III. Sample Coverage and the Characteristics of Households and Respondents

Sample Coverage

Of the 6000 households selected for the sample 5969 were successfully interviewed for a household response rate of 99.5 percent. In the interviewed households, 7277 women (age 15-49) were identified. Of these, 6764 were successfully interviewed, yielding a response rate of 93 percent. In addition, 6373 children under age five were listed in the household questionnaire. Of these, questionnaires were completed for 6305 which corresponds to a response rate of 98.9 percent. Overall response rates of 92.5 percent and 98.4 are calculated for the women's and under-5's interviews respectively (Table HH.1).

Household response rates for the Somali MICS are almost 100 percent due to the method of the household selection. Without a recent census or a household listing performed prior to data collection, household selection had to be performed around the same time that the interview would take place and quite often this occurred on the same day. Many households in Somalia are also temporary structures and therefore if the structure is present it would be unusual for it to be uninhabited. When response rates by zone are compared it appears that the response rate for women in the North West Zone was much lower (82.4 percent) than the national average. Survey teams reported that women, particularly in rural areas were too busy performing their daily chores to be interviewed for long periods.

Characteristics of Households

The age and sex distribution of the survey population is provided in Table HH.2. The distribution is also used to produce the population pyramid in Figure HH.1. In the 5,969 households successfully interviewed in the survey, 33,959 household members were listed. Of these, 16,988 were males, and 16,965 were females.

The age structure of the household population is typical of a society with a very young population. The population pyramid has a wide base due to the large number of children less than 15 years of age. Children under 15 years of age comprise 49 percent of the population which is characteristic of a population with high fertility levels. Over half of the population (55 percent) is between the ages of 0 and 17. Forty seven percent of the population is in the age group 15 – 64 and about 3 percent are over 65 years of age.

Collecting accurate information on age presents a particular challenge for Somalia. Very few people have birth certificates or any form of identification and many people do not know the exact year they were born. Therefore some irregularities and data quality issues related to age are to be expected. Table DQ.1 in Appendix D presents ages in single year categories; the table shows high level of digit preference for ages ending in zero. In only 1 percent of cases was age unreported.



Figure HH.1: Age and sex distribution of household population, Somalia, 2006

Table HH.3 provides basic background information on the households. Within households, the sex of the household head, zone, urban/rural status and number of household members are shown in the table. 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. The weighted and unweighted numbers of households are equal, since sample weights were normalized (see Appendix A). The weighted number of households in the North East Zone is significantly lower than then unweighted observations due to over sampling in this zone.

Households in Somalia are predominantly male headed with just under one in five households being headed by a female. Somali households are typically quite large; the average household size observed in the survey is 5.7 persons. Eight percent of households have 10 or more members. Ninety-one percent of households have at least one child aged less than 18 years of age and 66 percent have at least one child aged less than 5 years. The majority of households (91 percent) have at least one woman of reproductive age.

Characteristics of Respondents

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. In both tables, the total numbers of weighted and unweighted observations are equal, since sample weights have been normalized (standardized). In addition to providing useful information on the background characteristics of women and children, the tables are also intended to show the numbers of observations in each background category. These categories are used in the subsequent tabulations of this report.

Table HH.4 provides background characteristics of female respondents 15-49 years of age. The table includes information on the distribution of women according to zone, urban-rural areas, age, marital status, motherhood status, education⁵ and wealth index quintiles⁶.

The weighted number of women in the North East region is significantly lower than then unweighted observations due to over sampling in this zone. More women reside in rural areas compared to urban areas (60 percent versus 40 percent)

Due to high fertility and rapid population growth, the proportion of women in each 5 year age group declines as age increases with one in four surveyed women between the age of 15 -19. The majority of the surveyed women (65 percent) are married, a quarter of the women have never been married and 9 percent of women reported being widowed or divorced. Of the women who are married or had been formerly married, 91 percent had given birth.

Generally it appears that educational attainment among the surveyed women is very low. The majority of women had never received any kind of education (58 percent). Approximately the same number of women had received koranic education compared to primary education (16 percent versus 15 percent). Just under five percent of women had attended secondary or higher education and just under 4 percent had attended some form of non-standard curriculum.

Table HH.5 presents some background characteristics of children under 5. These include distribution of children by several attributes: sex, zone and area of residence, age in months, mother's or caretaker's education and wealth.

Just over half of the children in the survey were male (52 percent male versus 48 percent female). As with the surveyed women, the weighted number of children in the North East region is significantly lower than then unweighted observations and most of the children reside in rural areas compared to urban areas (64 percent versus 36 percent). The proportion of children in each yearly age group is approximately equal at around 20 percent in each year. Slightly fewer children however were observed in the age group 12-23 months.

The educational attainment of the mothers and caretakers is generally very low. The majority of mothers and caretakers had not attended any form of education (62 percent). Mothers and caretakers are slightly more likely to have attended koranic school than any formal education (18 percent versus 16 percent).

⁵ Unless otherwise stated, "education" refers to highest educational level attended by the respondent throughout this report when it is used as a background variable.

⁶ 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: main source of drinking water, toilet facility, electricity, bed, radio, TV, mobile telephone, non mobile telephone, refrigerator, VCD/DVD, fan, satellite dish, watch, bicycle, animal cart, car/truck, clock, sewing machine, hectares of land and farm animals). 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.

IV. Child Mortality

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 of under-five mortality by two-thirds between 1990 and 2015. Monitoring progress towards this goal is an important but difficult objective.

The mortality rates presented in this chapter are computed from information gathered from the birth history of the Women's Questionnaire. Women in the age-group 15-49 were asked whether they had ever given birth, and if they had, they were asked to report the number of sons and daughters who live with them, the number who live elsewhere, and the number who have died. In addition, they were asked to provide a detailed birth history of their children in chronological order starting with the first child. Woman were asked whether a birth was single or multiple; the sex of the child; the date of birth (month and year); survival status; age of the child on the date of the interview if alive; and if not alive; the age at death of each live birth. Since the primary causes of childhood mortality change as children age, mostly biological factors to environmental factors, childhood mortality rates are expressed by age categories and are customarily defined as follows;

- Neonatal mortality (NN): the probability of dying within the first month of life
- Postneonatal mortality (PNN): the difference between infant and neonatal mortality
- Infant mortality $(_1q_0)$: the probability of dying between birth and the first birthday
- Child mortality (a_0) : the probability of dying between exact ages one and five
- Under-five mortality $(_{s}q_{0})$: the probability of dying between birth and the fifth birthday

The rates of childhood mortality are expressed as deaths per 1,000 live births, except in the case of child mortality, which is expressed as deaths per 1,000 children surviving to age one.

Levels and Trends in Infant and Child Mortality

Table CM.1 presents neonatal, post neonatal, infant, child and under-five mortality rates for the three recent five year periods before the survey. Neonatal mortality in the most recent period is 41 per 1000 live births. This rate is similar to post neonatal deaths (45 per 1000 live births) during the same period; that is, the risk of dying for any Somali child who survived the first month of life is similar as in the remaining 11 months of the first year of life. Thus just under 50 percent of infant deaths in Somalia occur during the first month of life.

The infant mortality rate in the five years preceding the survey is 86 per 1,000 live births and under-five mortality is 135 deaths per 1,000 live births for the same period. This means that one in every 12 Somali children dies before reaching age one, while one in every 7 does not survive to the fifth birthday.

Mortality trends can be examined in two ways: by comparing mortality rates for five year periods preceding a single survey and by comparing mortality estimates obtained from various surveys. However, these comparisons should be interpreted with caution because quality of data, time references and sample coverage varies. In particular, sampling errors associated with mortality estimates are large and should be taken into account when examining trends between surveys.

Although not strictly comparable, the data from the 1999 MICS, using indirect measures of mortality⁷, reported infant mortality to be 134 per 1,000 live births and under five mortality as 224 per 1,000 live births in the same period. Figure CM.1 compares the trends in under five mortality rates from the two surveys. The most recent under five mortality estimate is about 40 percent lower than the estimate from 1999. However as can be seen from the graph, trend data from the 2006 survey for the same period show much lower mortality. Therefore, before it can be concluded that the most recent results indicate a significant reduction in mortality during the last 5 years, further qualification for any apparent decline, the extent of the decline as well as the determinants should be taken up in a more detailed and separate analysis.



Figure CM.1: Trend in under-5 mortality rates, Somalia, 2006

Differentials in Childhood Mortality

Table CM.2 provides estimates of child mortality by sex, zone, urban rural residence, mother's education and wealth for the five years preceding the survey. As to be expected male children experience higher mortality than female children. Under-5 mortality rates are highest in the Central South Zone; in the North West Zones under 5 mortality is estimated at 113 per 1,000, rising to 122 per 1,000 in the North East and to 144 per 1,000 live births in the Central South Zone (figure CM.2). There appears to be very little difference with the risk of mortality between urban and rural residence.

With respect to mother's education and mortality the relationship is not consistent and the data shows an unexpected pattern suggesting that children born to mothers with no education, have a lower mortality risk than children born to mothers with any level of formal education. From table CM.2 it is apparent that infant and child survival is associated with wealth; infant mortality is consistently lower among children born to mothers in the richest 40 percent of households than those born to mothers in the poorest households.

⁷ The 1999 MICS did not include a birth history so mortality rates are based on an indirect estimation technique known as the Brass method.



Figure CM.2 Under-5 mortality rates for the 5 year period preceding the survey by background characteristics, Somalia, 2006

V. Nutrition

Nutritional Status

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.

Malnutrition is associated with more than half of all children deaths worldwide. Undernourished children are more likely to die from common childhood ailments, and those who survive, have recurring sicknesses and faltering growth. Three-quarters of the children who die from causes related to malnutrition were only mildly or moderately malnourished – showing no outward sign of their vulnerability. The Millennium Development target is to reduce by half the proportion of people who suffer from hunger between 1990 and 2015. The World Fit for Children goal is to reduce the prevalence of malnutrition among children under five years of age by at least one-third (between 2000 and 2010), with special attention to children under 2 years of age. A reduction in the prevalence of malnutrition will assist in the goal to reduce child mortality.

In a well-nourished population, there is a reference distribution of height and weight for children under age five. Under-nourishment in a population can be gauged by comparing children to a reference population. The reference population used in this report is the WHO/CDC/NCHS reference, which was recommended for use by UNICEF and the World Health Organization at the time the survey was implemented. Each of the three nutritional status indicators can be expressed in standard deviation units (z-scores) from the median of the reference population.

Weight-for-age is a measure of both acute and chronic malnutrition. Children whose weightfor-age is more than two standard deviations below the median of the reference population are considered moderately or severely underweight while those whose weight-for-age is more than three standard deviations below the median are classified as severely underweight.

Height-for-age is a measure of linear growth. Children whose height-for-age is more than two standard deviations below the median of the reference population are considered short for their age and are classified as moderately or severely stunted. Those whose height-for-age is more than three standard deviations below the median are classified as severely stunted. Stunting is a reflection of chronic malnutrition as a result of failure to receive adequate nutrition over a long period and recurrent or chronic illness.

Finally, children whose weight-for-height is more than two standard deviations below the median of the reference population are classified as moderately or severely wasted, while those who fall more than three standard deviations below the median are severely wasted. Wasting is usually the result of a recent nutritional deficiency. The indicator may exhibit significant seasonal shifts associated with changes in the availability of food or disease prevalence.

In the MICS, weights and heights of all children under 5 years of age were measured using anthropometric equipment recommended by UNICEF (UNICEF, 2006). Findings in this section are based on the results of these measurements. Children who were not weighed and measured (approximately 7 percent of children) and those whose measurements are outside a plausible range are excluded from the analyses. In addition, a small number of children whose birth dates are not known are excluded.

Table NU.1 shows percentages of children classified into each of these categories, based on the anthropometric measurements that were taken during fieldwork. Additionally, the table includes the percentage of children who are overweight, which takes into account those children whose weight for height is above 2 standard deviations from the median of the reference population. During the data analyses stage the Somali nutrition data underwent some additional data quality checks using the Nutrisurvey software.⁸ The data quality checks highlighted certain problems such as a higher than normal level of rounding on height. While at the national level findings appear quite consistent, at the level of zones the results appear to show some unexpected patterns that require more understanding and analyses. Therefore table NU.1 is presented without the zonal estimates. At the time of publication UNICEF has made plans to conduct substantial further analyses on the MICS nutrition data as well as on other sources of nutrition data collected in Somalia.

Thirty-six percent of Somali children under the age of five are moderately underweight and 12 percent are classified as severely underweight (Table NU.1). Thirty eight percent of children are stunted or too short for their age and 11 percent are wasted or too thin for their height.

Children living in rural areas are almost twice as likely to be moderately underweight than those living in urban areas (23 percent versus 43 percent). Those children whose mothers have primary or secondary education are less likely to be underweight and stunted compared to children of mothers with no education or koranic education. The age pattern shows that a higher percentage of children aged 12-23 months are wasted in comparison to children who are younger and older. This pattern is expected and is related to the age at which many children cease to be breastfed and are exposed to contamination in water, food, and environment.





For more information on nutrisurvey software go to http://www.nutrisurvey.de/ (accessed on 20.07.07)

Breastfeeding

Breastfeeding for the first few years of life protects children from infection, provides an ideal source of nutrients, and is economical and safe. However, many mothers stop breastfeeding too soon and there are often pressures to switch to infant formula, which can contribute to growth faltering and micronutrient malnutrition and is unsafe if clean water is not readily available. The World Fit for Children goal states that children should be exclusively breastfed for 6 months and continue to be breastfed with safe, appropriate and adequate complementary feeding for up to 2 years of age and beyond.

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

It is also recommended that breastfeeding be initiated within one hour of birth.

The indicators of recommended child feeding practices are as follows:

- Exclusive breastfeeding rate (< 6 months & < 4 months)
- Timely complementary feeding rate (6-9 months)
- Continued breastfeeding rate (12-15 & 20-23 months)
- Timely initiation of breastfeeding (within 1 hour of birth)
- Frequency of complementary feeding (6-11 months)
- Adequately fed infants (0-11 months)

Table NU.2 provides the proportion of women who started breastfeeding their infants within one hour of birth, and women who started breastfeeding within one day of birth (which includes those who started within one hour). Just over a quarter (26 percent) of women who had given birth in the 2 years preceding the survey started to breastfeed within one hour of birth. As presented in figure NU.2 this ranges from 39 percent in the North East Zone to 35 percent in the North West Zone and 21 percent in the Central South Zone. Sixty-one percent of Somali women begin breastfeeding within one day of the birth. Women in urban areas are more likely to begin breastfeeding within one day of the birth compared to their rural counterparts. There is a positive relationship between education and breastfeeding; 71 percent of women with primary education began breastfeeding within one day of birth compared to 59 percent of women with no education.





Within one day Within one hour

In Table NU.3, 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 (separately for 0-3 months and 0-5 months), as well as complementary feeding of children 6-9 months and continued breastfeeding of children at 12-15 and 20-23 months of age.

Approximately 9 percent of children aged less than six months are exclusively breastfed, a level considerably lower than recommended. At age 6-9 months, 15 percent of children are receiving breast milk and solid or semi-solid foods. By age 12-15 months, 50 percent of children are still being breastfed and by age 20-23 months the percentage falls to 35 percent. Girls were more likely to be exclusively breastfed than boys (14 percent versus 11 percent) and also have a higher rate for timely complementary feeding (11 percent versus 8 percent). Among children age 20-23 months boys were likely to be breastfed for longer than girls.

Figure NU.3 shows the detailed pattern of breastfeeding by the child's age in months. Even at the earliest ages, the majority of children are receiving liquids or foods other than breast milk. By the end of the sixth month, the percentage of children exclusively breastfed is well below 10 percent. Only about 15 percent of children are receiving breast milk after 2 years.





The adequacy of infant feeding in children under 12 months is provided in Table NU.4. Different criteria of adequate feeding are used depending on the age of the child. For infants aged 0-5 months, exclusive breastfeeding is considered as adequate feeding. Infants aged 6-8 months are considered to be adequately fed if they are receiving breastmilk and complementary food at least two times per day, while infants aged 9-11 months are considered to be adequately fed if they are receiving breastmilk and complementary food at least three times a day.

Just 9 percent of infants aged less than six months are exclusively breastfed; this figure ranges from 12 percent in the Central South Zone to 5 percent in the North West Zone and just 1 percent

in the North East Zone. Infants from the poorest households are more likely to be exclusively breastfed compared to infants from wealthier households.

For infants age between 6-8 months, 10 percent received breast milk and complimentary food at least twice in the prior 24 hours to the survey. Fifteen percent of infants age 9 – 11 months were receiving breast milk and complimentary food at the 3 minimum number of recommended times per day. As a result of these feeding patterns, only 12 percent of children aged 6-11 months are being adequately fed. Adequate feeding among all infants (aged 0-11) drops to 11 percent with little variation among sex, urban rural residence and mother's education.

Salt Iodization

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 is to achieve sustainable elimination of iodine deficiency by 2005. The indicator is the percentage of households consuming adequately iodized salt (≥15 parts per million).

In about 91 percent of households, salt used for cooking was tested for iodine content by using salt test kits to identify the presence of potassium iodate. Table NU.5 shows that in 7 percent of households there was no salt available. In just 1.2 percent of households, salt was found to contain 15 parts per million (ppm) or more of iodine. Use of iodized salt is extremely low across all zones; with the North West having the lowest rate at just 0.7 percent.

Vitamin A Supplements

Vitamin A is essential for eye health and proper functioning of the immune system. It is found in foods such as milk, liver, eggs, red and orange fruits, red palm oil and green leafy vegetables, although the amount of vitamin A readily available to the body from these sources varies widely. In developing areas of the world, where vitamin A is largely consumed in the form of fruits and vegetables, daily per capita intake is often insufficient to meet dietary requirements. Inadequate intakes are further compromised by increased requirements for the vitamin as children grow or during periods of illness, as well as increased losses during common childhood infections. As a result, vitamin A deficiency is quite prevalent in the developing world and particularly in countries with the highest burden of under-five deaths.

The 1990 World Summit for Children set the goal of virtual elimination of vitamin A deficiency and its consequences, including blindness, by the year 2000. This goal was also endorsed at the Policy Conference on Ending Hidden Hunger in 1991, the 1992 International Conference on Nutrition, and the UN General Assembly's Special Session on Children in 2002. The critical role of vitamin A for child health and immune function also makes control of deficiency a primary component of child survival efforts, and therefore critical to the achievement of the fourth Millennium Development Goal: a two-thirds reduction in under-five mortality by the year 2015.

For countries with vitamin A deficiency problems, current international recommendations call for high-dose vitamin A supplementation every four to six months, targeted to all children between the ages of six to 59 months living in affected areas. Providing young children with two high-
dose vitamin A capsules a year is a safe, cost-effective, efficient strategy for eliminating vitamin A deficiency and improving child survival. Giving vitamin A to new mothers who are breastfeeding helps protect their children during the first months of life and helps to replenish the mother's stores of vitamin A, which are depleted during pregnancy and lactation. For countries with vitamin A supplementation programmes, the definition of the indicator is the percent of children 6-59 months of age receiving at least one high dose vitamin A supplement in the last six months.

Based on UNICEF/WHO guidelines, it is recommended that children aged 6-11 months be given one high dose Vitamin A capsules and children aged 12-59 months given a vitamin A capsule every 6 months. In some parts of the country, Vitamin A capsules are linked to immunization services and programs and are given when the child has contact with these services after six months of age. It is also recommended that mothers take a Vitamin A supplement within eight weeks of giving birth due to increased Vitamin A requirements during pregnancy and lactation.

Within the six months prior to the MICS, 24 percent of children aged 6-59 months received a high dose Vitamin A supplement (Table NU.6). Approximately 7 percent did not receive the supplement in the last 6 months but did receive one prior to that time and 5 percent of children received a Vitamin A supplement at some time in the past but their mother/caretaker was unable to specify when. Vitamin A supplementation coverage is lowest in the North East Zone.

The age pattern of Vitamin A supplementation shows that supplementation in the last six months is around 18 percent among children aged 6-11 months, 23 percent among children 12-23 months and then above 25 percent in the older age groups.

The mother's level of education is also related to the likelihood of Vitamin A supplementation. The percentage receiving a supplement in the last six months increases from 23 percent among children whose mothers have no education to 30 percent of those whose mothers have primary education and 36 percent among children of mothers with secondary or higher education.

Of mothers who gave birth in the previous two years before the MICS, only about 9 percent received a Vitamin A supplement within eight weeks of the birth (Table NU.7). This percentage is highest in the North West at 13 percent and lowest in the North East at 6 percent. Vitamin A coverage is higher in urban areas compared to rural areas (15 percent versus 5 respectively) and also increases with the education of the mother. Vitamin A coverage of mothers among the wealth quintiles increases from 5 percent in the poorest and second poorest quintiles to 19 percent in the richest wealth quintile.

Low Birth Weight

Weight at birth is a good indicator not only of a mother's health and nutritional status but also the newborn's chances for survival, growth, long-term health and psychosocial development. Low birth weight (less than 2,500 grams) carries a range of grave health risks for children. Babies who were undernourished in the womb face a greatly increased risk of dying during their early months and years. Those who survive have impaired immune function and increased risk of disease; they are likely to remain undernourished, with reduced muscle strength, throughout their lives, and suffer a higher incidence of diabetes and heart disease in later life. Children born underweight also tend to have a lower IQ and cognitive disabilities, affecting their performance in school and their job opportunities as adults.

In the developing world, low birth weight stems primarily from the mother's poor health and nutrition. Three factors have most impact: the mother's poor nutritional status before conception,

short stature (due mostly to under nutrition and infections during her childhood), and poor nutrition during the pregnancy. Inadequate weight gain during pregnancy is particularly important since it accounts for a large proportion of foetal growth retardation. Moreover, diseases such as diarrhoea and malaria, which are common in many developing countries, can significantly impair foetal growth if the mother becomes infected while pregnant.

In the industrialized world, cigarette smoking during pregnancy is the leading cause of low birth weight. In developed and developing countries alike, teenagers who give birth when their own bodies have yet to finish growing run the risk of bearing underweight babies.

One of the major challenges in measuring the incidence of low birth weight is the fact that more than half of infants in the developing world are not weighed. In the past, most estimates of low birth weight for developing countries were based on data compiled from health facilities. However, these estimates are biased for most developing countries because the majority of newborns are not delivered in facilities, and those who are represent only a selected sample of all births. As a result, the reported birth weights usually cannot be used to estimate the prevalence of low birth weight among all children. Therefore, the percentage of births weighing below 2500 grams is estimated from two items in the questionnaire: the mother's assessment of the child's **size** at birth (i.e., very small, smaller than average, average, larger than average, very large) and the mother's recall of the child's **weight** or the weight as recorded on a health card if the child was weighed at birth⁹.

Overall, only 5 percent of Somali children are weighed at birth. This is not surprising due to the large number of births that do not take place in a health facility. Among children born in the two years preceding the survey with a reported weight, five percent weighed less than 2500 grams. However a large proportion of reported weights were exactly 2500 grams and overall 11 percent of births were reported at weighing 2500 grams or less. A table showing these results along with background characteristics is not present in this report due to the small number of cases in each category with a reported birth weight.

In the absence of reported birth weight a mother's subjective assessment of the size of the baby may be useful. Seventeen percent of births were reported to be very small and 10 percent were reported as smaller than average (Table NU.8). Births to mothers with no education are more likely to be reported as very small compared to mother's who have received formal education. Almost a third of births (33 percent) in the Central South Zone are reported to be very small or smaller than average.

⁹ For a detailed description of the methodology, see Boerma, Weinstein, Rutstein and Sommerfelt, 1996.

VI. Child Health

Immunization

The Millennium Development Goal (MDG) 4 is to reduce child mortality by two thirds between 1990 and 2015. Immunization plays a key part in this goal. Immunizations have saved the lives of millions of children in the three decades since the launch of the Expanded Programme 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.

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, three 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.

Overall, only 8 percent of mothers or caretakers were able to show the interviewers health cards for their children (CH.2). 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. The percentage of children aged 12 to 23 months who received each of the vaccinations is shown in CH.1. The denominator for the table comprises of children aged 12-23 months so that only children who are old enough to be fully vaccinated are counted. In the top panel, the numerator includes all children who were vaccinated at any time before the survey according to the vaccination card or the mother's report. In the bottom panel, only those who were vaccinated before their first birthday are included. 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.

Approximately 26 percent of children aged 12-23 months received a BCG vaccination by the age of 12 months and the first dose of DPT was given to 20 percent of children. The percentage declines for subsequent doses of DPT to 17 percent for the second dose, and 12 percent for the third dose (Figure CH.1). Similarly, 52 percent of children had received Polio 1 by age 12 months and this declines to 35 percent by the third dose. It is not surprising to see that polio coverage is higher than DPT coverage due to the number of polio vaccination campaigns that have taken place since polio remerged in July 2005.

The coverage for measles vaccine by 12 months is 19 percent; 29 percent of children under 2 years of age had received the measles vaccine but only 19 percent has received it by their first birthday. As a result, the percentage of children who had all eight recommended vaccinations by their first birthday is extremely low at only 5 percent.



Figure CH.1: Percentage of children 12-23 months who received immunisations by age 12 months, Somalia 2006

Table CH.2 shows the 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' reports. For most vaccinations the coverage does not vary significantly between boys and girls other than when it comes to receiving all vaccinations where boys are at an advantage (14 percent versus 9 percent). For each vaccination children in urban areas are more likely to be vaccinated compared to their rural counterparts; 40 percent of urban children have receive the measles vaccination compared to 23 percent of children living in rural areas. Vaccination coverage also increases with education of the mother; 45 percent of children born to mothers with primary education have received the BCG vaccination compared to 24 percent of children born to mothers with no education.

Tetanus Toxoid

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 was to eliminate maternal and neonatal tetanus by 2005.

Prevention of maternal and neonatal tetanus is to assure 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 vaccine, 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.

Table CH.3 shows the protection status from tetanus of women who have had a live birth within the last 12 months and the protection of women against neonatal tetanus by major background characteristics. Just 18 percent of women received two doses of the tetanus toxoid vaccination during their last pregnancy. A further 6 percent of women received two doses within the three years prior to the birth. Overall 26 percent of women are protected against tetanus. As shown in figure CH.2 women in urban areas are more than three times as likely to be protected against tetanus compared to women living in rural areas (49 percent versus 13 percent). More striking however are the differences among the wealth quintiles; women from the wealthiest households are six times as likely to be protected against neonatal tetanus compared to women from the poorest households (9 percent versus 54 percent).

Figure CH.2 Percentage of women with a live birth in the last 12 months who are protected against neonatal tetanus, Somalia, 2006



Oral Rehydration Treatment

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 salts (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.

The 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 thirds 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.

The indicators are:

- Prevalence of diarrhoea
- Oral rehydration therapy (ORT)
- Home management of diarrhoea
- (ORT or increased fluids) AND continued feeding

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 had to drink and eat during the episode and whether this was more or less than the child usually ate and drank.

Overall, 21 percent of under five children had diarrhoea in the two weeks preceding the survey (Table CH.4). Diarrhoea prevalence was much higher in the Central South Zone at 25 percent compared to 13 percent in the North West and 11 percent in the North East Zone. The peak of diarrhoea prevalence occurs among children in their first and second year of life.

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. Seventy-nine percent of children who had diarrhoea in the two weeks preceding the survey did not receive any treatment. About 9 percent received fluids from ORS packets; 7 percent received pre-packaged ORS fluids, and 9 percent received recommended homemade fluids. Children of mothers with no education are less likely to receive oral rehydration treatment than other children. Approximately just one-fifth (21 percent) of children with diarrhoea received one or more of the recommended home treatments (i.e., were treated with ORS or RHF).





Only 3 percent of under five children with diarrhoea in the last two weeks drank more than usual while 94 percent drank the same or less (Table CH.5). Twenty-eight percent ate somewhat less, same or more (continued feeding), but 71 percent ate much less or ate almost nothing. Combining the information in Table CH.5 with those in Table CH.4 on oral rehydration therapy, it is observed that 7 percent of children either received ORT or fluid intake was increased, and at the same time, feeding was continued, as is the recommendation.

There are significant differences in the home management of diarrhoea by background characteristics. In the Central South, only 5 percent of children received ORT or increased fluids AND continued feeding, while the figure is 13 percent in the North East and 16 percent North West.



Figure CH.4 Percentage of children aged 0-59 with diarrhoea who received ORT or increased fluids, AND continued feeding, Somalia, 2006

Care Seeking and Antibiotic Treatment of Pneumonia

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.

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. The indicators are:

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

Table CH.6 presents the prevalence of suspected pneumonia and, if care was sought outside the home, the site of care. Fifteen percent of children aged 0-59 months were reported to have had symptoms of pneumonia during the two weeks preceding the survey. Of these children, only 13 percent were taken to an appropriate provider although this varied significantly with background characteristics. Male children were more likely to be taken to an appropriate provider than female children (14 percent versus 11 percent). The most common provider reported across all zones was a pharmacy which incidentally is not considered an appropriate provider.

Table CH.7 presents the use of antibiotics for the treatment of suspected pneumonia in under-5s by sex, age, region, residence, age, and socioeconomic factors. In Somalia, 32 percent of under-5 children with suspected pneumonia had received an antibiotic during the two weeks prior to the

survey. There are noticeable differences between male and female children; 35 percent of male children received antibiotics compared to 29 of their female counterparts. The percentage was higher in urban areas at 49 percent, while the percentage declines to only 24 percent for children living in urban households. The table also shows that antibiotic treatment of suspected pneumonia is very low among the poorest households. The use of antibiotics rises with the education of the mother.

Issues related to knowledge of danger signs of pneumonia are presented in Table CH.7A. Obviously, mothers' knowledge of the danger signs is an important determinant of care-seeking behaviour. Overall just 15 percent of women know of the two danger signs of pneumonia – fast and difficult breathing. The most commonly identified symptom for taking a child to a health facility is diarrhoea followed closely by fever. Twenty eight percent of mothers identified fast breathing and 31 percent of mothers identified difficult breathing as symptoms which would cause them to immediately take their children to a health care provider. Interestingly mother's knowledge of the danger signs of pneumonia did not increase with education and women in rural areas reported better knowledge of the danger signs than woman in urban areas.

Solid Fuel Use

More than 3 billion people around the world rely on solid fuels (biomass and coal) for their basic energy needs, including cooking and heating. 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_2 , 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, cataracts, and asthma. The primary indicator is the proportion of the population using solid fuels as the primary source of domestic energy for cooking.

Overall, as is shown in Table CH.9, almost all households in Somalia are using solid fuels for cooking (99.6 percent). The table clearly shows that percentage is high due to the large levels of wood (63 percent) and charcoal (33 percent) use for cooking purposes.

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 stoves with chimneys 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. The type of stove used with a solid fuel is depicted in Table CH.10. Alarmingly 91 percent of households that use solid fuel cook on an open stove or fire with no chimney or hood.

Malaria

Malaria is a leading cause of death of children under age five in Somalia. It also 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 mortality rates among children. 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.

The MICS questionnaire incorporates questions on the use of bednets, both at household level and among children under five years of age, as well as anti-malarial treatment, and intermittent preventive therapy for malaria. As presented in Table CH. 11, in Somalia households with at least one insecticide treated net is 22 percent. Just over half of the mosquito nets (12 percent) used at household level were treated with insecticide and 10.5 percent were long lasting nets.

Results indicate that 18 percent of children under the age of five slept under a mosquito net the night prior to the survey and 9 percent slept under a long lasting insecticide treated net (Table CH.12). ITN use among children under five years of age declines steadily with age but there were no significant gender disparities. In general children in the Central South Zone are less likely to sleep under mosquito nets than their northern counterparts. However, in terms of the type of net children in the Central South Zone are comparatively better off with 10 percent sleeping under a long lasting insecticide treated net compared to just over 7 percent in both the North West and North East Zones.

Questions on the prevalence and treatment of fever were asked for all children under age five. In Somalia 22 percent of children under five were ill with fever in the two weeks prior to the MICS (Table CH.13). Fever prevalence was considerably higher in the Central South Zone (27 percent) compared with Puntland (15 percent) and Somaliland (9 percent). Prevalence was also higher in rural areas compared to urban areas. Fever prevalence was not as high among children whose mothers had primary or secondary education than among children of less educated mothers. Wide differences in fever prevalence were also found between the rich and poor; the prevalence ranging from 27 to 13 percent between the poorest and richest groups.

Mothers were asked to report all of the medicines given to a child to treat the fever, including medicine given at home and medicines given or prescribed at a health facility. "Appropriate" antimalarial drugs include Chloroquine, SP/Fansidar, Artimisine combination drugs, Quinine and Amodiaquine. Overall, just 8 percent of children with fever in the last two weeks were treated with an "appropriate" anti-malarial drug and only 3 percent received the anti-malarial drugs within 24 hours of onset of symptoms. In Somalia, 5 percent of children with fever were given chloroquine, less than 1 percent received artemisinin combination therapy and less than 1 per cent received other appropriate anti-malarials. Nine percent of children were given other types of medicines that are not anti-malarials, including anti-pyretics such as paracetemol, aspirin or ibuprofen. Urban children and children from the richest households were more likely than rural children to be treated appropriately as were the children of mothers with primary or secondary education. A small difference was noted between boys and girls receiving appropriate anti-malarial drugs.

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 the Somali MICS, women were asked of 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.

Intermittent preventive treatment for malaria in pregnant women who gave birth in the two years preceding the survey is presented in Table CH.14. Just six percent of women report taking medicine during pregnancy to prevent malaria, the most common type of medicine taken was chloroquine.

As in the case for children age under five, pregnant women are also a priority target group for use of insecticide treated nets. Table CH.14A shows the percentage of women who had given birth in the two years preceding the survey who had regularly slept under a mosquito net. Overall 17 percent of women reported that they had regularly slept under some type of bednet while they were pregnant. This ranged from 30 percent in the North East Zone to 23 percent in the North West Zone to just 13 percent in the Central South Zone. Women from wealthier households are more likely to sleep under a bednet while pregnant than women from poorer households.

In the Somalia MICS mothers and primary caretakers were also asked if they could recognise the signs and symptoms of malaria. As shown in Table CH.15 two thirds of respondents (66 percent) identified fever and sweats as a typical malaria symptom. The second most commonly reported symptom was vomiting and nausea (47 percent) and over a third of mother's and caretakers identified headaches, chills/shivers and bitterness in the mouth as being symptoms.

Attitudes towards polio vaccination

Negotiating protection against poliomyelitis is an ongoing issue for Somalia despite the repeated and widespread vaccination campaigns that occur on an annual basis. The Somali MICS included some questions in order to assess the proportion of mothers/caretakers who refuse polio vaccinations. A question was also included to determine who is the main decision maker when it comes to vaccinating children. The results are presented in Table CH.16.

Encouragingly 82 percent of mothers/caretakers have heard of polio. When these mothers/ caretakers were asked if they agree with having their children receive the repeat vaccinations 86 percent reported they were in favour. Support of polio vaccinations was lowest in the North East Zone at 60 percent while in the Central South Zone support was at 91 percent and 83 percent in North West Zone. However despite the lack of complete support, 83 percent of mothers/ caretakers reported that they had never refused to vaccinate their child against Polio, 6 percent reported that they had refused on one occasion and 9 percent reported that they had refused several times. Refusing vaccinations also varied by zone, mothers/caretakers in the North East are much less likely to allow their child to receive a polio vaccination (35 percent) compared to the North West Zone (20 percent) and the Central South Zone (13 percent).

In order to design awareness raising programmes for polio vaccination campaigns it is important to target the key decision makers in the household. Just under half of the mothers/caretakers interviewed (46 percent) reported that it is only the father who makes decisions about whether to vaccinate the children or not. Twenty-four percent reported that it is only the mother who makes the decisions while 21 percent reported that both the father and mother make decisions regarding child vaccinations.

VII. Environment

Water and Sanitation

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.

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.

The list of indicators used in MICS are 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

The distribution of the population by source of drinking water is shown in Table EN.1 and Figure EN.1. The population using improved sources of drinking water are those using any of the following types of supply: piped water (into dwelling, yard or plot), public tap/standpipe, tubewell/borehole, protected well, protected spring, 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 handwashing and cooking.

Water

Overall, 29 percent of the population is using an improved source of drinking water – 58 percent in urban areas. The situation in the Central South and North East is considerably worse than in the North West Zone; only 25 percent of the population in the Central South and North East Zones get their drinking water from an improved source.

Those living in urban areas are five times more likely to have access to an improved source of drinking water compared to those living in rural areas. People living in households where the household head has attended secondary education are almost three times as likely to have access to an improved source of drinking water compared to households where the head has not received any education (62 percent versus 24 percent). As to be expected wealth is positively linked to improved water sources.

The source of drinking water for the population varies by zone (Table EN.1). In the North West 17 percent of the population uses drinking water that is piped into their dwelling or into their yard or plot. In the North East and the Central South Zone, 9 and 11 percent respectively use piped water. In the North West and North East the most important source of drinking water is a berkad; a berkad however is not considered an improved source. In the Central South Zone, the most common source of drinking water is surface water (28 percent) followed by unprotected wells (22 percent); both of these sources are deemed unsafe.



Figure EN.1 Percentage distribution of household members by source of drinking water, Somalia, 2006

Use of in-house water treatment is presented in Table EN.2. Households were asked if and how they treated 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 of drinking water. The table shows the percentages of household members using appropriate water treatment methods, separately for all households, for households using improved and unimproved drinking water sources.

Among the population using an improved drinking water source, 37 percent were also using an appropriate water treatment method. This compares to just 16 percent of the population who rely on an unimproved drinking water source. The most common method of water treatment appears to be adding bleach or chlorine to the water, 13 percent of the household population reported using this method. Households in urban areas were significantly more likely to use a water treatment method, 45 percent reported using an appropriate method compared to just 9 percent in rural areas. The higher the educational level of the household head the more likely the household is to use an appropriate method to treat the drinking water.

The Somali MICS also asked household respondents whether they use a method to prevent contamination of water while it was being stored or when they were handling it. Thirty six percent of the household population reported that they did not do anything to prevent contamination of drinking water (Table EN2B). Forty one percent of households reported that they store water in a clean container with a cover.

The amount of time it takes to obtain water is presented in Table EN.3 and the person who usually collected the water in Table EN.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.

Table EN.3 shows that for 15 percent of households, the drinking water source is on the premises. For just under a third of all households, it takes more than one hour to get to the water source and bring water. Excluding those households with water on the premises, the average time to and from the source of drinking water is 70 minutes. As to be expected there is a considerable

time difference for collecting water between urban and rural households (38 minutes versus 82 minutes respectively). The time spent in the Central South Zone for collecting water is higher than the North West and North East (82 minutes versus 57 and 58 minutes respectively). As to be expected the time spent in collecting water decreases with wealth, however those living in the richest households still spend on average, 47 minutes to go and collect water.

Household respondents were also asked to state how reliable their main source of water supply is. Just over a third of households almost never have problems with their water supply (34 percent). There is a positive relationship between education of household head and reliability of water supply; household heads with secondary education reported almost never having problems compared to 30 percent of households where the head has no education. Over a fifth of respondents in the poorest households (21 percent) reported that they had daily problems with their water supply and 36 percent of households in rural areas reported that their water supply was seasonal.

Table EN.4 shows that for the majority of households, when the source of drinking water is not on the premises an adult female is usually the person who collects the water (66 percent). Adult men collect water in 26 percent of cases, while for the rest of the households, female or male children under age 15 collect water.

Sanitation

Inadequate disposal of human excreta and personal hygiene is associated with a range of diseases including diarrhoeal diseases and polio. Improved sanitation facilities include: flush toilets connected to sewage systems, septic tanks or pit latrines, ventilated improved pit latrines and pit latrines with slabs.

In Somalia just over 37 percent of the population is living in households using improved sanitary facilities (Table EN.5). This percentage ranges from 78 percent in urban areas and 13 percent in rural areas. Residents of the Central South Zone are less likely than those in the North West and North East Zone to use improved facilities. More than half of the population in the Central South (58 percent) uses rivers, bush, fields, or has no facilities. There are also striking differences between the wealth quintiles, in the poorest and second poorest households less than 1 percent of the population are using sanitary facilities compared to 74 percent in the fourth richest quintile and 86 percent in the richest.

Safe disposal of a child's faeces is determined by whether the last stool by the child was disposed of by use of a toilet or rinsed into toilet or latrine. Disposal of faeces of children 0-2 years of age is presented in Table EN.6. For thirty five percent of children aged 0-2, stools are disposed of in a safe way. This varies considerable with zone ranging from 50 percent in the North West to 37 percent in the North East to 30 percent in the Central South. In urban areas stools are considerably more likely to be disposed of in a safe way compared to rural areas (75 percent versus 12 percent).

An overview of the percentage of households with improved sources of drinking water and sanitary means of excreta disposal is presented in Table EN.7. One fifth of the Somali household population use both improved sources of drinking water and sanitary means of excreta disposal. There is a stark contrast between urban and rural populations; 47 percent of urban households use both improved sources of drinking water and sanitary means of excreta disposal compared to just 4 percent of rural households. There are also large differentials between wealth quintiles.

Hygiene

In Somalia UNICEF has been engaged with promoting improved hygiene and environmental sanitation. One aspect of these efforts has been to promote positive behavioural change in hand-washing practices through extensive social mobilisation. The Somali MICS included a question in the household questionnaire to find out whether soap is being used in households for hand-washing and if so, in which situations. The results are presented in Table EN.8.

More than half of all the household respondents (55 percent) reported that soap in the household was used for washing hands in one or more of the given situations. This ranges from 84 percent in the North East to 77 percent in the North West and 41 percent in the Central South. Households in urban areas are more likely to have soap in the household for hand washing compared to rural areas (71 percent versus 46 percent respectively).

The most common reason reported for using soap to wash hands was for after defecation (48 percent), followed by cleaning babies' bottom (45 percent). Only 27 percent of the household respondents reported using soap to wash hands before cooking.

VIII. Fertility

Population size may play a critical role in achieving the MDGs. At both the household and national levels, larger families and rapidly growing populations obstruct development and prolong poverty. Children born into large, poor families face increased competition for limited resources, including food, clothing, health and education. At the national level, rapid population growth in poor countries stretches the demand for services, including health care and education, faster than the capacity to satisfy it. Monitoring levels of fertility is one of the three components of population dynamics needed to determine the future size and structure of the population.

This chapter presents the 2006 MICS results on the levels and trends in fertility. The analysis is based on birth history information collected from women age 15-49 interviewed during the survey. Each eligible woman was asked a series of questions on the number of sons and daughters who were living with her, the number living elsewhere, and the number who had died, in order to obtain the total number of live births she had had in her lifetime. For each live birth, information was also collected on the name sex, age and survival status of the child. For dead children, age at death was recorded. Information from the birth history is then used to assess current levels and trends in fertility.

Current Fertility

Measures of current fertility are presented in Table FE.1 for the three year period preceding the survey, corresponding to the calendar period 2003-2006. A three-year period was chosen because it reflects the most current information, while also allowing the rates to be calculated on a sufficient number of cases so as not to compromise the statistical precision of the estimates.

Two measures of current fertility are shown. Age-specific fertility rates (ASFRs), expressed as the number of births per thousand women in a specified age group, are calculated by dividing the number of live births to women in a specific age group by the number of woman-years lived in that age-group. The total fertility rate (TFR) is defined as the average number of babies born to a woman during her reproductive years if she were to pass through those years bearing children at the currently observed age-specific fertility rates.

Table FE.1 shows the current fertility rates for Somalia as a whole and for urban and rural areas. The total fertility rate for Somalia is estimated at 6.7 births per woman. Such high fertility is a strong indication of the huge population growth that Somalia will experience. Childbearing begins early in Somalia as reflected by the overall age pattern of fertility shown in the ASFRs. Fertility is low among adolescents and increases to a peak of 306 births per 1,000 among woman age 25-29 and declines thereafter (Table FE.1).

Fertility rates are higher in rural areas than urban areas; the TFR in rural areas is above seven births (7.1) while the TFR in urban areas is 6 births per woman. Rural ASFRs are higher than urban ASFRs at the early ages (15-24) as well as the later ages (35-44) during the reproductive period.(Figure FE.1).



Figure FE.1: Age-specific Fertility Rates by Urban-Rural Residence, Somalia, 2006

Fertility Differentials

Table FE.2 present differentials in the total fertility rates over the 3 years preceding the survey by zone, residence, education and wealth quintiles. There are sizeable differentials in fertility among zones; the North West Zone has the lowest TFR at 5.9, followed by 6.2 in the North East Zone and is highest in the Central South Zone at 7.1. There are also noticeable differentials by education of the mother ranging from a low of 5.8 among women who have only received non standard curriculum education to a high of 7.0 among women who have not received any education at all. Women living in the poorest 60 percent of households experience a TFR of 7.0 while those living in the richest 40 percent of households experience a TFR of 6.2.

Fertility Trends

In addition to estimating levels and patterns of current fertility, retrospective data from birth histories can also be used to assess trends in fertility over time. Table FE.3 compares age-specific fertility for successive three-year periods preceding the survey. The numerators of the rates are classified by three-year segments of time preceding the survey and the mother's age at the time of survey. Women 50 years and over were not interviewed in the survey, therefore rates for older age groups of women become progressively more truncated for periods more distant from the survey date.

Table FE.3 shows an interesting pattern of fertility in Somalia over the last fifteen years. Fertility seems to have peaked during the 6-8 year period preceding the survey. Rates prior to this period appear to be lower in almost all age groups. The results indicate that fertility has been declining during the most recent periods. The decline is especially significant during the most recent two 3-year periods, where declines in excess of 15 percent are observed in all age groups. In light of the low contraceptive prevalence in Somalia, further understanding of these apparent fertility declines during the most recent period, along with the causes and modalities require further investigation.

IX. Reproductive Health

Contraception

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. A World Fit for Children goal is access by all couples to information and services to prevent pregnancies that are too early, too closely spaced, too late or too many.

The current level of contraceptive use is a measure of actual contraceptive use at the time of the survey. Currently married women were asked if they were using any method to space the number of births or to delay pregnancy. The current use of contraception was reported by just 15 percent of women (Table RH.1). Of the different family planning methods only 1 percent of currently married women reported using a modern method of contraception¹⁰. The single most popular method reported was the lactation amenorrhea method (LAM) which is used by 13 percent of married Somali women.

Both traditional and modern methods of contraceptive prevalence were highest in the North West (26 percent) compared to the North East (12 percent) and the Central South Zone (12 percent). In both the North West and the Central South Zone modern contraceptive use was particularly rare with less than one percent of married women reporting any use. In the North West Zone 3 percent of women reported using the pill. There did not appear to be any large differentials in contraceptive prevalence between married women of different age groups once women were over 20 years of age. Married women between ages 15 to 19 reported the lowest contraceptive prevalence use (7 percent). Women's education level may be associated with contraceptive prevalence. The percentage of women using any method of contraception rises from 14 percent among those with no education to 16 percent among women with primary education to 23 percent among women with secondary education or higher.

Unmet Need

Unmet need¹¹ for contraception refers to fecund women who are not using any method of contraception, but who wish to postpone the next birth or who wish to stop childbearing altogether. Unmet need is identified by using a set of questions eliciting current behaviours and preferences pertaining to contraceptive use, fecundity, and fertility preferences. However it must be noted that due to the customisation of the Somali questionnaire it is not possible to use this data to make global comparisons.

In the Somali MICS women who have an unmet need for spacing includes women who are currently married, believe they can still get pregnant and want to space their births. Pregnant women are also included if they want to have another birth at least two years later.

Women in unmet need for limiting are those women who are currently married and want to limit their births. This group includes women who are currently pregnant but do not want any more children and women who are not currently pregnant but do not want to have another child.

¹⁰ Known modern methods available In Somalia include the pill, IUD, injections, and condoms

¹¹ Unmet need measurement in MICS is somewhat different than that used in other household surveys, such as the Demographic and Health Surveys (DHS). In DHS, more detailed information is collected on additional variables, such as postpartum amenhorrea, and sexual activity. Results from the two types of surveys are strictly not comparable. The Somali questionnaire was further modifies so comparisons with other MICS data should also be done with caution.

Total unmet need for contraception is simply the sum of unmet need for spacing and unmet need for limiting.

Using information on contraception and unmet need, the percentage of demand for contraception satisfied is also estimated from the data. Percentage of demand for contraception satisfied is defined as the proportion of women currently married who are currently using contraception, of the total demand for contraception. The total demand for contraception includes women who currently have an unmet need (for spacing or limiting), plus those who are currently using contraception.

Table RH.2 shows the results of the survey on contraception, unmet need, and the demand for contraception satisfied. In Somalia the unmet need for contraception appears fairly low at 26 percent; the majority for this unmet need is for birth spacing (21 percent) as opposed to birth limiting (5 percent). It seems apparent therefore that Somali women want to have many children which results in a low unmet need for contraception.

Of the unmet need, just thirty six percent of the demand is satisfied. The unmet need for contraception is highest in the North West Zone. There appears to be a positive relationship between unmet need and women's age. Among women age 45 – 49 the unmet need is reported to be 42 percent as opposed to 21 percent among women age 15 -19. There are little differences between unmet need and other background variables such as urban rural residence, education and wealth.

Antenatal Care

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.

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 content on antenatal care visits, which include:

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

The type of personnel providing antenatal care to women aged 15-49 years who gave birth in the two years preceding is presented in Table RH.3. In Somalia over two thirds of women (68 percent)

do not receive any form of antenatal care. In total 26 percent of women received antenatal care from skilled health personnel. This ranged from 32 percent in the North West to 26 percent in the North East and 24 percent in the Central South. Women in urban areas are considerable more likely than women in rural areas to see receive antenatal care from skilled health personnel (46 percent versus 15 percent respectively). There is also a positive relationship between receiving antenatal care from a skilled provider and wealth; women in the richest households are 6 times as likely to receive skilled care than women from the poorest households.

The types of services pregnant women received are shown in table RH.4. Among the women who received antenatal care at least once during their pregnancy, 14 percent had a blood test, 21 percent had their blood pressure measured, 9 percent had a urine specimen taken and 22 percent had their weight measured. The type of services received varies by zone. Women in the North West Zone are considerably more likely to receive each type of service, for example in this zone 32 percent of women report having their blood pressure measured compared to 22 percent in the North East and 17 percent in the Central South. Mother's education and wealth also appears to affect the type of services received during antenatal care visits; women with primary education were at least twice as likely to have each test performed compared to women with no education.

Table RH.4A presents the number of antenatal care check-ups received by women who had given birth in the 2 years preceding the survey. Eighteen percent of women had between 2-3 antenatal care visits, eight percent had just one visit and 6 percent had over four visits. Overall, among the women who received antenatal care, the mean number of visits received was 2.

Assistance at Delivery

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 women have 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.

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 auxiliary midwife.

About a third of births (33 percent) occurring in the year prior to the survey were delivered by skilled personnel (Table RH.5). This percentage is highest in the North West Zone at 41 percent and lowest in the Central South at 30 percent. Women in urban areas were considerably more likely than their rural counterparts to have delivered with the assistance of a skilled attendant (65 percent versus 15 percent). The more educated and more wealthy a woman is, the more likely she is to have delivered with the assistance of a skilled attendant education reported giving birth with the assistance of a skilled attendant compared to just 25 percent of women with no education.

Just under a quarter of the births (24 percent) in the year prior to the survey were delivered with assistance by an auxiliary midwife. Doctors assisted with the delivery of 7 percent of births and nurses assisted with just 2 percent. Overall, about 51 percent of births were delivered by traditional birth attendants.

Post Natal Care

The Somali MICS also included several questions to assess whether women in Somalia receive any postnatal care and whether women had experienced any postpartum complications after childbirth.

Of women who had given birth in the two years preceding the survey 88 percent did not receive any postnatal care (Table RH.5a). Of the small number that did, around 6 percent visited a doctor and 4 percent visited an auxiliary/midwife.

Women were asked if they had experienced any of the following problems during the postpartum period: fever, problem controlling urine, urinary tract infection, mastitis, offensive discharge, tear or injury to the genital area, wound infection, haemorrhage or post delivery depression. Results are presented in Table RH.5b; the most commonly cited problem reported was fever (52 percent) followed by mastitis (41 percent). More than a quarter of women who had given birth in the 2 years preceding the survey reported experiencing haemorrhage, this ranged from 21 percent of women in urban areas to 30 percent in rural areas.

Maternal Mortality

The complications of pregnancy and childbirth are a leading cause of death and disability among women of reproductive age in developing countries. It is estimated worldwide that around 529,000 women die each year from maternal causes. And for every woman who dies, approximately 20 more suffer injuries, infection and disabilities in pregnancy or childbirth. This means that at least 10 million women a year incur this type of damage.

The most common fatal complication is post-partum haemorrhage. Sepsis, complications of unsafe abortion, prolonged or obstructed labour and the hypertensive disorders of pregnancy, especially eclampsia, claim further lives. These complications, which can occur at any time during pregnancy and childbirth without forewarning, require prompt access to quality obstetric services equipped to provide lifesaving drugs, antibiotics and transfusions and to perform the caesarean sections and other surgical interventions that prevent deaths from obstructed labour, eclampsia and intractable haemorrhage. One MDG target is to reduce by three quarters, between 1990 and 2015, the maternal mortality ratio.

Maternal mortality is defined as the death of a woman from pregnancy-related causes, when pregnant or within 42 days of termination of pregnancy. The maternal mortality ratio is the number of maternal deaths per 100,000 live births. In the MICS, the maternal mortality ratio is estimated by using indirect sisterhood method. To collect the information needed for the use of this estimation method, adult household members are asked a small number of questions regarding the survival of their sisters and the timing of death relative to pregnancy, childbirth and the postpartum period for deceased sisters. The information collected is then converted to lifetime risks of maternal death and ratios¹².

The Somali 2006 MICS results on maternal mortality are shown in Table RH.6. Note that the estimates refer to a period approximately 10 to 12 years before the survey (1994-1996). The results are also presented only for the national total, since maternal mortality ratios generally have very large sampling errors.

The level of maternal mortality in Somalia is extremely high. The maternal mortality ratio is estimated to be around 1044 per 100,000 live births (or alternatively 10 deaths per 1000 live births).

¹² For more information on the indirect sisterhood method, see WHO and UNICEF, 1997.

X. Child Development

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. A World Fit for Children goal is that "children should be physically healthy, mentally alert, emotionally secure, socially competent and ready to learn."

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.

For over two-thirds (65 percent) of under-five children, an adult engaged in more than four activities that promote learning and school readiness during the 3 days preceding the survey (Table CD.1). The average number of activities that adults engaged with children was 4. The table also indicates that the father's involvement in such activities was somewhat limited. Father's involvement with one or more activities was 39 percent. Sixteen percent of children were living in a household without their fathers.

There are no significant gender differentials in terms of adult activities with children or whether fathers engaged in activities more with male children than with female children. A slightly higher proportion of adults engaged in learning and school readiness activities with children in urban areas (67 percent) than in rural areas 63 percent). Stronger differentials by zone are observed: Adult engagement in activities with children was greatest in the North East Zone (79 percent) and lowest in the Central South Zone (62 percent). Father's involvement showed a similar pattern in terms of adults' engagement in such activities.

XI. Education

Pre-School Attendance and School Readiness

Attendance to pre-school education in an organized learning or 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.

Extremely few Somalia children (2 percent) aged 36-59 months are attending pre-school (Table ED.1). With such a low numbers, background differentials should be compared with caution. Among children aged 36-59 months, attendance to pre-school is more prevalent in the richest households (6 percent) and among children born to mothers with secondary and non standard curriculum education.

Primary and Secondary School Participation

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.

The indicators for primary and secondary school attendance include:

- 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 (GPI)

The indicators of school progression include:

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

In 1990, prior to start of the civil war the Somali education system had four basic levels-preprimary, primary, secondary, and higher; however in the societal chaos that followed the fall of Said Barre in 1991, schools ceased to exist for all practical purposes. During the years following many Somali children and young people lost the chance to access any formal education. Slowly, and with the help of international assistance, there have now been substantial increases in the number of operational primary and secondary schools; however education and formal classroom learning opportunities are limited and still unavailable for a majority of children in Somalia.

Koranic schools remain the basic system of instruction in religion in Somalia. They provide Islamic education for children usually between the ages of 5-14, thereby filling a clear religious and social role in the country. Compared to other education sub-sectors, koranic schools teach the greatest number of students across the country and remain the only system available for nomadic children.

Of children who are of primary school entry age (age 6) in Somalia, just 9 percent are attending the first grade of primary school (ED.2). There are large differentials by zone and urban-rural

areas. In the North West Zone, for instance, the value reaches 22 percent, while it is 11 percent in the North East Zone and just 4 percent in the Central South Zone. Children's participation in primary school is timelier in urban areas (16 percent) than in rural areas (5 percent). A positive correlation with mother's education and socioeconomic status is observed; for children age 6 whose mothers have at least primary school education, 20 percent were attending the first grade. In rich households, the proportion is around 23 percent, while it is just under 2 percent among children living in the poorest households.

Table ED.3 provides the percentage of children of primary school age (6 to 13 years) who are attending primary or secondary school. Overall, 23 percent of children of primary school age in Somalia are attending primary school or secondary school. In urban areas, 41 percent of children attend school while in rural areas attendance is only 12 percent. School attendance in the Central South Zone is significantly lower than in the rest of the country at 13 percent. At the national level, just over a quarter of all boys of primary school age (25 percent) attend primary or secondary school, this drops to 21 percent for girls of the same age.

The secondary school net attendance ratio is presented in Table ED.4; the secondary school age in Somalia is between 14 and 17 years. Only 7 percent of children of secondary school age are attending secondary school. Of the remaining some are attending primary school but the majority are out of school (see below). The most striking differential is between urban and rural areas; in urban areas 14 percent of secondary school age children attend secondary school compared to just over 1 percent in rural areas. Once again a positive correlation with mother's education and socioeconomic status is observed: 16 percent of secondary school age children with mothers educated to at least primary level attend secondary school compared to just 4 percent of children whose mothers have no education.

The primary school net attendance ratio of children of secondary school age is presented in Table ED.4W. Just under one fifth (19 percent) of secondary school age children are attending primary school. The large number of secondary school age children attending primary school is probably due to the lack of educational opportunity these children had in the preceding years. There are significant differentials in all the background characteristics; 31 percent of secondary school age children in urban areas are attending primary school compared to 10 percent in rural areas. In the richest households, 36 percent of secondary school age children attend primary school compared to just 4 percent in the poorest households.

The percentage of children entering first grade who eventually reach grade 5 is presented in Table ED.5. However due to a low proportion of children in the sample who attend school the numbers in these categories are very small and therefore this table must be treated with caution. Of all children starting grade one, 92 percent will eventually reach grade five. When this data is compared to other school surveys completed in Somalia the figure is considered to be extremely optimistic¹³. Notice that this number includes children that repeat grades and that eventually move up to reach grade five.

The net primary school completion rate is presented in Table ED.6. At the time of the survey, only 4 percent of the children of primary completion age (13 years) were attending the last grade of primary education. This value should be distinguished from the gross primary completion ratio which includes children of any age attending the last grade of primary.

¹³ The UNICEF Primary School Survey 2006 estimates that just 56 percent of children entering grade one will eventually reach grade 5.

The ratio of girls to boys attending primary and secondary education is provided in Table ED.7. The table shows that gender parity for primary school is 0.8, i.e. for every 10 boys in school, there are only 8 girls, indicating the disadvantage for girls. The national gender parity indicator drops even further for secondary education to 0.5. The disadvantage of girls in secondary education is particularly pronounced in the North West Zone (0.3). In rural areas only 1 girl is are attending secondary school for every 10 boys.

Adult Literacy

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. Literacy was assessed on the ability of women to read a short simple statement written in Af-Somali language.

Table ED.8 indicates that only a quarter of women in Somalia (25 percent) are literate and that literacy status varies greatly by place of residence. Forty five percent of women residing in urban areas are literate compared with only 10 percent of their rural counterparts indicating the lack of learning opportunities available for women in rural areas.

The slightly higher level of literacy among women aged 15-19 (28 percent) compared to women aged 20-24 (22 percent) may suggest that the younger generation has had more opportunity for learning. There is a marked difference in literacy by women's wealth status ranging from 2 percent in the lowest wealth quintile to 59 percent in the highest wealth quintile.

Of women who stated that primary school was their highest level of education, just 72 percent were actually able to read the statement shown to them. Of women who had attended Koranic school, just 10 percent were literate in Af-Somali.

XII. Child Protection

Birth Registration

The International 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. However there is currently no formal mode of Somali birth registration therefore the figures for birth registration are unsurprisingly low.

The births of just 3 percent of Somali children under the age of five years have been registered (Table CP.1). Children in the North West Zone are more likely to have their births registered (7 percent) compared to children in the North East Zone (3 percent) and Central South Zone (2 percent). Among those whose births are not registered the main reasons stated were not knowing where to register (33 percent), not knowing that the child should be registered (28 percent) and do not see the need to register the child (22 percent).

Child Labour

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.

This definition allows to differentiate child labour from 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 before. Table CP.2 presents the results of child labour by the type of work. Very few children appear to be engaged in work outside the household whether paid or unpaid (2.5 percent). Just under a quarter (24 percent) of children aged 5-14 perform more than 28 hours of household chores per week and almost one in four children aged 5-14 (37 percent) are working for the family business. Overall almost half (49 percent) of the children aged 5-14 in Somalia are engaged in child labour. Females are more likely to be involved in child labour (54 percent) compared to their male counterparts (45 percent).

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 moment of the surveys. More specifically, of the 49 percent of the children 5-14 years of age attending school, 44 percent are also involved in child labour activities. Out of the

49 percent of the children classified as child labourers, less than half are also attending school (44 percent). Female children are more likely to be engaged in child labour than male children (54 percent versus 45 percent) and females who are attending school are more likely to be engaged in labour than their male student counterparts (51 percent versus 40 percent).

Early Marriage and Polygyny

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/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.

In many parts of the world parents encourage the marriage of their daughters while they are still children in hopes that the marriage will benefit them both financially and socially, while also relieving financial burdens 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, Minimum Age for Marriage and Registration of Marriages and the African Charter on the Rights and Welfare of the Child and the Protocol to the African Charter on Human and People's Rights on the Rights of Women in Africa. Child marriage was also identified by the Pan-African Forum against the Sexual Exploitation of Children as a type of commercial sexual exploitation of children.

Young married girls are a unique, though often invisible, group. 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 numbers and with more intensity. Cohabitation - when a couple lives together as if married - raises the same human rights concerns as marriage. 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. Additional concerns due to the informality of the relationship - for example, inheritance, citizenship and social recognition - might make girls in informal unions vulnerable in different ways than those who are in formally recognized marriages.

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 ages 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.

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 both married and unmarried girls between the ages of 15 and 19, particularly among the youngest of this cohort. There is evidence to suggest that girls who marry at young ages are more likely to marry older men which can put them at increased risk of HIV infection.

Two of the indictors are to estimate the percentage of women married before 15 years of age and percentage married before 18 years of age. The percentage of women married at various ages is provided in Table CP.4. Marriage occurs relatively early in Somalia. Almost 8 percent of women between the ages of 15 to 49 married before they reached the age of 15 and a quarter of all women (25 percent) aged between 15 and 19 are married. Women in the Central South Zone are more likely to get married before the age of 15 (10 percent) than women in the North West and North East (3 percent and 4 percent respectively).

The number of women in a polygynous union is provided in Table CP.4. The data show that 23 percent of married women in Somalia are in polygynous unions. The percentage of women in polygynous unions tends to increase with age, from 13 percent among woman age 15 – 19 to 37 percent of women age 45 – 49. Women living in rural areas are slightly more likely to be in polygynous unions (24 percent) than women living in urban areas (21 percent). The difference between the zones is more pronounced with polygyny ranging from 17 percent in the North West Zone, to 24 percent in the Central South Zone and 26 percent in the North East Zone. There appears to be little difference in the percentage of polygynous unions across the different wealth quintiles.

Another component is the spousal age difference with an indicator being the percentage of married/in union women with a difference of 10 or more years of age compared to their current spouse. Table CP.5 presents the results of the age difference between husbands and wives. Of the women aged 15-19 years 31 percent were married to a man 10 years older than themselves. There appears to be no marked differences between zone, urban and rural residence, education or wealth quintile. The spousal age difference also displayed the same pattern for women aged 20-24; 30 percent of this age group were married to men 10 or more years their senior.

Female Genital Mutilation/Cutting

Female genital mutilation/cutting (FGM/C) is the partial or total removal of the female external genitalia or other injury to the female genital organs. FGM/C is always traumatic with immediate complications including excruciating pain, shock, urine retention, ulceration of the genitals and injury to adjacent tissue. Other complications include septicaemia, infertility, obstructed labour, and even death. In Somalia the procedure is generally carried out on girls between the ages of 4 and 14. It is often performed by traditional practitioners, including untrained village midwives, without anaesthesia, using knives, scissors, razor blades or even broken glass. The instruments are often not sterile and the ritual is very often performed in unsanitary conditions. In urban areas, some families use a doctor to perform the operation.

FGM/C is a fundamental violation of human rights. In the absence of any perceived medical necessity, it subjects girls and women to health risks and has life-threatening consequences. Among those rights violated are the rights to the highest attainable standard of health and to

bodily integrity. Furthermore, it could be argued that girls (under 18) cannot be said to give informed consent to such a potentially damaging practice as FGM/C.

In the MICS, a series of 16 questions were asked to determine knowledge of FGM/C, prevalence of FGM/C, and details of the type of FGM/C performed. Table CP.6 presents the prevalence of FGM/C among women and the type and extent of the procedure. It appears that in Somalia FGM/C is near universal at 98 percent. Differences by background characteristics are small. Seventy nine percent of women reported that their vagina was sewn closed (infibulation) during circumcision which is the most severe form of FGM/C. Overall 77 percent of women age 15-49 have undergone an extreme form of FGM/C; however this varies by zone rising to 90 percent in both the North West and North East zone and falling to 70 percent in the Central South Zone.

Table CP.6 also presents woman's attitudes towards FGM/C. Just under two thirds of women (65 percent) believe that the practice should continue. Support for FGM/C varies with background characteristics. In the Central South where women are less likely to have received the most severe type of circumcision, 80 percent believe that the practice should be continued. In the North East Zone 53 percent support the continuation of circumcision and in the North West just a third of women (32 percent) support the practice. Women in rural (72 percent) are more likely to support the practice of circumcision than women in urban areas (54 percent). The age of women does not appear to have a marked difference on whether the practice should be continued however the more educated the women the less likely she is to believe that the practice of circumcision should be continued. Women in the poorest households are also more likely to support the practice of circumcision should be continued. Women in the richest households (78 percent versus 47 percent).

Table CP.7 presents the prevalence and extent of FGM/C performed on daughters of the respondents. Of the women reporting that they had a circumcised daughter, 60 percent reported that the daughter had received an extreme form of FGM/C. Overall 46 percent of women with one living daughter reported that their daughter had been circumcised. However it may be possible that many of the daughters of the women interviewed have not yet reached the age when FGM/C is likely to occur. The likelihood that a respondent's daughter is circumcised varies directly with her age, rising from 4 percent among women age 20-24 to 91 percent among women age 45-49, indicating that there may have been a decline attitudes toward circumcision in recent years. There does not appear to be a wide variation between mother's education or wealth and having a daughter circumcised.

Women were asked about the age at which the daughter had been circumcised. Table CP.7A presents the distribution of circumcised girls according to the age at circumcision. The majority of girls are circumcised between the ages of 5 - 9 (79 percent). In urban areas girls are more likely to be cut at 7 years old compared to any other age (22 percent). In the North West Zone more girls are circumcised at 8 years old (21 percent) which is slightly older than the other two zones where circumcision is more common around 6 and 7 years old.

Domestic Violence

A number of questions were asked of ever-married women age 15-49 years to assess their attitudes towards whether husbands are justified to hit or beat their wives/partners for a variety of scenarios. These questions were asked to have an indication of cultural beliefs that tend to be associated with the prevalence of violence against women by their husbands/partners. The main assumption here is that women that agree with the statements indicating that husbands/ partners are justified to beat their wives/partners under the situations described in reality tend to be abused by their own husbands/partners. The responses to these questions can be found in Table CP.8 and presented in figure CP.1.



Figure CP.1: Percentage of ever-married women who believe a husband is justified in beating his wife in various circumstances, Somalia, 2006

Over three quarters of ever-married women age 15-49 believes that a husband is justified in beating his wife for at least one of the specified reasons. The most widely accepted reason for a husband to beat his wife is for when a wife to refuses to have sex with her husband (64 percent). The percentage of women who believe a husband is justified in beating his wife for at least one of the reasons is higher among women residing in rural areas, women with no education and women living in the poorest households.

Orphaned Children

Children who are orphaned may be at increased risk of neglect or exploitation if the parents are not available to assist them. Somali children may also have been left vulnerable or orphaned as a result of conflict and/or displacement. 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.

The frequency of children living with neither parent, mother only, and father only is presented in Table CP.10. Approximately 3 in 4 children in Somalia are living with both biological parents. Nine percent of children are living in households with neither of their biological parents and 10 percent of children have lost either one or both of their biological parents. In Somalia just one percent of children are double orphans (both parents have died).

One of the measures developed for the assessment of the status of orphaned and vulnerable children relative to their peers looks at the school attendance of children 10-14 for children who have lost both parents (double orphans) versus children whose parents are alive (and who live with at least one of these parents). If children whose parents have died do not have the same access to school as their peers, then families and schools are not ensuring that these children's rights are being met.

In Somalia among the children age 10-14 who have lost one biological parent, 30 per cent are currently attending school (Table CP.11); among children age 10-14 who have not lost a parent and who live with at least one parent, 30 percent are also attending school. This would suggest therefore that currently, due to the generally low school attendance within the country among all children, there is no large educational disadvantage between orphans to non-orphaned children.

The prevalence of malnutrition among orphaned children under five years of age is presented in Table CP.12. Orphaned children appear to have slightly higher rates of malnutrition compared to non orphaned children. Forty percent of orphaned children are underweight compared to 35 percent of non orphaned children.

XIII. HIV/AIDS

Knowledge of HIV Transmission

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 and giving young people the tools to protect themselves from infection. 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.

One indicator which is both an MDG and UNGASS indicator is the percent of young women who have comprehensive and correct knowledge of HIV prevention and transmission. Women were asked whether they knew of the three main ways of HIV transmission – having only one faithful uninfected partner, using a condom every time, and abstaining from sex. The results are presented in Table HA.1. In Somalia, 65 percent of the interviewed women have heard of AIDS. However, the percentage of women who know of all three main ways of preventing HIV transmission is extremely low at 5 percent. Thirty-six percent of women know of having one faithful uninfected sex partner, 15 percent know of using a condom every time, and 23 percent know of abstaining from sex as main ways of preventing HIV transmission. While 46 percent of women know at least one way, more than half of women (54 percent) do not know any of the three ways.

Accurate knowledge of HIV transmission varies by zone; in the North West 12 percent of women could identify all 3 ways compared to 6 percent in the North East and just 3 percent in the Central South. Women in urban areas are more likely to be able to identify the 3 main ways of preventing HIV compared to women from rural areas (9 percent versus 4 percent). There does not appear to be any difference in knowledge across age groups but there is a positive relationship with education. Seventy eight percent of women with secondary or higher education could identify at least one mode of prevention compared to 37 percent of women with no education.

Table HA.2 presents the percent of women who can correctly identify misconceptions concerning HIV. The indicator is based on the two most common and relevant misconceptions in Somalia, that HIV can be transmitted by supernatural means and mosquito bites. The table also provides information on whether women know that HIV cannot be transmitted by sharing food. Of the interviewed women, just 13 percent reject the two most common misconceptions and know that a healthy-looking person can be infected. Thirty-nine percent of women know that HIV cannot be transmitted by sharing food, while 34 percent of women know that a healthy-looking person can be infected.

Education and wealth are directly related to correct knowledge concerning common misconceptions. Among women, for example, a quarter of women with secondary school or higher education, reject the two most common misconceptions and know that a healthy-looking person can be infected compared to just 9 percent of women with no education. Interestingly

women who have attended a non standard curriculum form of schooling are the most likely of all women to identify common misconceptions about HIV/AIDS.

Table HA.3 presents the percentage of women 15-49 years who know two ways of preventing HIV transmission. Knowledge of HIV prevention methods is still very low although there are differences by residence. Overall, 11 per cent of women report knowing two prevention methods, knowledge is higher in urban areas than rural areas. The percentage of women who know two prevention methods increases with the woman's education level.

A key indicator used to measure countries' responses to the HIV epidemic is the proportion of young people 15-24 years who know two methods of preventing HIV reject two misconceptions and know that a healthy looking person can have HIV. In Somalia just 4 percent of young women have comprehensive correct knowledge of HIV. The level of education and residence are highly associated with knowledge of HIV.



Figure HA.1 Percent of women who have comprehensive knowledge of HIV/AIDS transmission, Somalia, 2006

Knowledge of Mother-to-Child Transmission

Knowledge of mother-to-child transmission (MTCT) 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.4. Overall, 54 percent of women know that HIV can be transmitted from mother to child. The percentage of women who know all three ways of mother-to-child transmission is 38 percent, while 11 percent of women did not know of any specific way.

There are marked differences in MTCT knowledge among women by zone, residence, education and wealth. Knowledge about mother-to-child transmission is highest among women living in urban areas and women living in the North West Zone. Knowledge levels are lowest among women with no education, are in the lowest wealth quintile and who live in the Central South Zone.

Attitudes toward people living with HIV

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: 1) would care for family member sick with AIDS; 2) would buy fresh vegetables from a vendor who was HIV positive; 3) thinks that a female teacher who is HIV positive should be allowed to teach in school; and 4) would not want to keep HIV status of a family member a secret. Table HA.5 presents the attitudes of women towards people living with HIV/AIDS.

Women tend to express more positive attitude in response to the questions concerning behaviour towards HIV-infected relatives than to questions about shopkeepers or teachers. Forty-two percent of women say that they would not care for a family member who was sick with AIDS. Sixty-four percent say that a teacher with HIV should not be able to work and 73 percent say that they would not buy food from a person with HIV or AIDS. The percentage expressing accepting attitudes on all four measures is low at just 5 percent among the women.

Knowledge of HIV Testing Facilities

Another important indicator is the knowledge of where to be tested for HIV and use of such services. Questions related to knowledge among women of a facility for HIV testing and whether they have ever been tested is presented in Table HA.6. Only 16 percent of women know where to be tested, the proportions of women who know where to be tested are higher for women in urban areas, women with secondary or higher education and those in the highest wealth quintile. Just 3 percent of the women have actually been tested, of these, a large proportion has been told the result (73 percent).
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Tables

Table HH.1: Results of household and individual interviews

Number 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, Somalia, 2006

	Resid	lence		Zone		
	Urban	Rural	North West	North East	Central South	Total
Number of households						
Sampled	2232	3768	1440	1440	3120	6000
Occupied	2232	3768	1440	1440	3120	6000
Interviewed	2222	3747	1411	1440	3118	5969
Response rate	99.6	99.4	98.0	100.0	99.9	99.5
Number of women						
Eligible	3067	4210	1833	1702	3742	7277
Interviewed	2779	3985	1541	1638	3585	6764
Response rate	90.6	94.7	84.1	96.2	95.8	93.0
Overall response rate	90.2	94.1	82.4	96.2	95.7	92.5
Number of children under 5						
Eligible	2356	4017	1232	1440	3701	6373
Mother/Caretaker interviewed	2317	3988	1204	1418	3683	6305
Response rate	98.3	99.3	97.7	98.5	99.5	98.9
Overall response rate	97.9	98.7	95.8	98.5	99.4	98.4

Table HH.2: Household age distribution by sex

Percent distribution of the household population by five-Year age groups and dependency age groups, and number of children aged 0-17 Years, by sex, Somalia, 2006

	Males		Female	s	Tota	al
	Number	Percent	Number	Percent	Number	Percent
Age						
0-4	3379	20	3126	18	6506	19
5-9	2983	18	2843	17	5826	17
10-14	2220	13	2183	13	4404	13
15-19	1756	10	1863	11	3619	11
20-24	1172	7	1457	9	2629	8
25-29	887	5	1265	7	2153	6
30-34	787	5	875	5	1662	5
35-39	678	4	850	5	1527	4
40-44	776	5	630	4	1406	4
45-49	465	3	347	2	812	2
50-54	486	3	502	3	987	3
55-59	254	1	237	1	491	1
60-64	416	2	286	2	702	2
65-69	174	1	113	1	286	1
70+	316	2	284	2	599	2
Missing/DK	240	1	103	1	349	1
Dependency age group	os					
< 15	8582	51	8153	48	16735	49
15-64	7676	45	8312	49	15989	47
65 +	489	3	396	2	886	3
Missing/DK	240	1	103	1	349	1
Children aged 0-17	9668	57	9174	54	18842	55
Adults 18+/ Missing/ DK	7320	43	7791	46	15117	45
Total	16988	100	16965	100	33959	100

Table HH.3: Household composition

Percent distribution of households by selected characteristics, Somalia, 2006

		Number of ho	ouseholds
	Weighted percent	Weighted	Unweighted
Sex of household head			
Male	82.0	4894	4851
Female	18.0	1075	1118
Zone			
North West	24.4	1455	1411
North East	11.5	687	1440
Central South	64.1	3827	3118
Residence			
Urban	35.4	2113	2222
Rural	64.6	3856	3747
Number of household members			
1	0.8	49	49
2-3	21.0	1252	1319
4-5	29.9	1787	1806
6-7	26.2	1565	1517
8-9	14.0	833	807
10+	8.1	482	471
Total	100	5969	5969
At least one child aged < 18 Years	90.6	5969	5969
At least one child aged < 5 Years	65.8	5969	5969
At least one woman aged 15-49 Years	91.2	5969	5969

Table HH.4: Women's background characteristics

Percent distribution of women aged 15-49 Years by background characteristics, Somalia, 2006

		Number of we	omen
	Weighted percent	Weighted	Unweighted
Zone			
North West	25.5	1723	1541
North East	11.1	750	1638
Central Southern	63.4	4291	3585
Residence			
Urban	40.4	2735	2779
Rural	59.6	4029	3985
Age			
15-19	25.2	1706	1695
20-24	20.0	1354	1374
25-29	17.5	1183	1193
30-34	12.1	822	816
35-39	11.8	798	799
40-44	8.6	580	572
45-49	4.7	320	315
Marital/Union status			
Currently married/in union	65.3	4417	4400
Formerly married/in union	9.3	630	642
Never married/in union	25.4	1717	1722
Motherhood status			
Ever gave birth	91.1	4597	4581
Never gave birth	8.9	450	461
Education			
None	58.3	3944	3862
Koranic	16.0	1082	1086
Primary	15.4	1040	1101
Secondary +	4.7	320	340
Non standard Curriculum	3.7	250	242
Don't Know/Missing	1.9	128	133
Wealth index quintiles			
Poorest	18.0	1214	1119
Second	19.8	1337	1284
Middle	19.7	1334	1328
Fourth	20.3	1373	1450
Richest	22.3	1506	1583
Total	100	6764	6764

Table HH.5: Children's background characteristics

Percent distribution of children under five Years of age by background characteristics, Somalia, 2006

		Number of under-S	i children
	Weighted percent	Weighted	Unweighted
Sex			
Male	51.9	3275	3270
Female	48.1	3030	3035
Zone			
North West	16.4	1032	1013
North East	13.9	879	1609
Central Southern	69.7	4394	3683
Residence			
Urban	35.7	2254	2317
Rural	64.3	4051	3988
Age			
< 6 months	10.8	681	687
6-11 months	10.2	646	653
12-23 months	17.2	1086	1096
24-35 months	20.0	1264	1243
36-47 months	20.7	1307	1317
48-59 months	21.0	1322	1309
Mother's education			
None	62.2	3924	3838
Koranic	18.3	1151	1151
Primary	13.0	821	902
Secondary +	3.1	194	203
Non standard Curriculum	3.1	194	190
Don't Know/Missing	0.3	21	21
Wealth index quintiles			
Poorest	20.1	1266	1160
Second	20.5	1294	1242
Middle	20.7	1304	1307
Fourth	20.7	1308	1406
Richest	18.0	1132	1190
Total	100	6305	6305

Years preceding the survey	Neonatal mortality (NN)	Post neonatal mortality (PNN)	Infant mortality $(1_1q_0)^*$	Child mortality ($_4q_0$)	Under five mortality $({}_{5}q_{0})^{**}$
0-4	41	45	86	53	135
5-9	37	54	91	67	152
10-14	50	59	109	94	192

Table CM.1: Childhood mortality rates

Neonatal, post neonatal, infant, child, and under-five mortality rates for five-year periods preceding the survey, Somalia 2006

* MICS indicator 2; MDG indicator 14

** MICS indicator 1; MDG indicator 13

Table CM.2: Child mortality by sex and residence

Neonatal, postneonatal, infant, child, and under-five mortality rates for the five-year periods preceding the survey, by background characteristics Somalia 2006

	Neonatal mortality (NN)	Post neonatal mortality (PNN)	Infant mortality $({}_1q_0)$	Child mortality ($_4q_0$)	Under five mortality (₅ q ₀)**
Sex					
Male	43	48	91	53	139
Female	33	43	76	54	126
Zone					
North West	36	52	88	27	113
North East	35	45	80	46	122
Central South	44	43	87	63	144
Residence					
Urban	40	48	88	50	134
Rural	42	44	85	55	136
Total	41	45	86	53	135

Table NU.1: Child malnourishment

Percentage of children aged 0-59 months who are severely or moderately malnourished, Somalia, 2006

	Weight	for age	Height	for age	W	eight for heigh	ıt	Number
	% below	% below	% below	% below	% below	% below	% above	of children
	- 2 SD*	- 3 SD	- 2 SD**	- 3 SD	- 2 SD***	- 3 SD	+ 2 SD	months
Sex								
Male	36.7	11.4	37.7	20.9	11.7	2.5	2.8	2821
Female	34.3	11.7	38.0	20.0	10.1	1.9	3.6	2603
Residence								
Urban	22.8	6.0	27.8	12.5	6.7	1.1	2.4	1992
Rural	43.0	14.8	43.6	25.1	13.4	2.8	3.6	3432
Age								
< 6 months	6.6	1.1	9.5	2.8	6.4	1.1	6.5	531
6-11 months	18.0	5.2	18.8	6.4	12.6	2.6	4.5	588
12-23 months	37.3	12.9	37.9	19.4	15.7	4.7	3.9	928
24-35 months	45.1	18.7	46.9	27.4	10.4	1.7	1.6	1125
36-47 months	42.5	13.9	46.8	27.2	10.0	1.5	2.2	1127
48-59 months	40.5	9.2	43.0	23.4	9.8	1.6	2.8	1125
Mother's education								
None	39.3	13.5	41.7	24.0	11.7	2.5	3.1	3343
Koranic	37.6	11.7	39.5	19.9	11.4	1.9	3.3	1011
Primary	22.1	5.7	24.3	10.1	8.0	1.5	2.8	717
Secondary +	14.5	3.7	20.6	7.5	7.4	1.4	5.0	170
Non standard curriculum	28.5	5.9	23.6	11.4	9.8	2.6	2.7	167
Wealth index quintiles								
Poorest	48.1	17.1	47.7	26.6	14.6	3.2	4.2	1064
Second	46.3	17.0	47.9	29.5	12.8	2.2	3.3	1120
Middle	40.3	13.8	42.4	24.9	13.2	2.8	2.7	1105
Fourth	26.0	6.3	28.8	12.2	9.2	2.3	3.2	1101
Richest	16.2	3.1	21.4	8.5	4.6	0.3	2.5	1034
Total	35.6	11.6	37.8	20.5	11.0	2.2	3.2	5424

* MICS indicator 6; MDG indicator 4

** MICS indicator 7

*** MICS indicator 8

Total includes 16 children missing information on mother's education who are not shown separately.

Figures in parenthesis are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

Zones are excluded from table (see text page 26))

Table NU.2: Initial breastfeeding

Percentage of women aged 15-49 years with a birth in the two years preceding the survey who breastfed their baby within one hour of birth and within one day of birth, Somalia, 2006

	Percentage who started breastfeeding within one hour of birth*	Percentage who started breastfeeding within one day of birth**	Number of women with a live birth in the two years preceding the survey
Zone			
North West	35.1	69.8	496
North East	38.5	74.4	269
Central South	21.4	55.3	1560
Residence			
Urban	26.6	67.2	852
Rural	26.1	56.8	1472
Months since birth			
< 6 months	23.9	61.1	551
6-11 months	30.5	61.1	614
12-23 months	25.5	60.5	959
Mother's education			
None	26.2	58.5	1460
Koranic	17.7	55.6	369
Primary	35.5	71.2	314
Secondary +	30.0	71.8	64
Non standard curriculum	24.9	71.6	75
Wealth index quintiles			
Poorest	23.5	49.6	435
Second	28.6	55.3	468
Middle	25.6	59.0	483
Fourth	24.3	66.0	508
Richest	29.7	73.0	430
Total	26.3	60.6	2325

* MICS indicator 45

** Includes children who started breastfeeding within one hour of birth.

Total includes 43 children missing information on mother's education who are not shown separately.

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Percentage of living children according to breastfeeding status at each age group, Somalia, 2006

	Children 0-	3 months	Children 0-	5 months	Children 6-	9 months	Children 12-	15 months	Children 20-	23 months
	Percent		Percent		Percent receiving breastmilk and solid/					
	exclusively breastfed	Number of children	exclusively breastfed*	Number of children	mushy food**	Number of children	Percent breastfed ^{***}	Number of children	Percent breastfed ^{***}	Number of children
Sex										
Male	11.2	238	7.9	366	13.5	239	49.1	273	40.1	98
Female	14.4	200	10.5	315	16.6	254	51.5	227	30.1	86
Zone										
North West	7.0	86	5.1	137	24.1	106	43.1	113	17.0	49
North East	1.9	46.3	1.1	79	13.2	59	38.2	63	(20.4)	18
Central South	15.9	305	11.7	464	12.5	327	55.0	324	45.5	117
Residence										
Urban	9.1	153	6.8	238	21.1	168	31.9	178	26.8	72
Rural	14.6	285	10.4	443	12.0	325	60.4	322	40.9	113
Mother's education										
None	12.7	282	9.4	429	13.1	332	53.2	296	38.5	114
Koranic	12.4	82	8.7	130	17.7	69	52.2	100	(36.7)	27
Primary	(17.9)	47	11.9	79	21.8	63	41.9	68	(30.9)	28
Secodary	(*)	11	(*)	18	(*)	10	(*)	18	(*)	10
Non standard curriculum	(*)	15	(*)	21	(*)	18	(*)	17	(*)	4
Wealth index quintiles										
Poorest	26.1	75	17.7	117	8.8	96	71.0	101	(46.4)	30
Second	18.7	93	14.2	147	11.3	38	64.5	105	(44.3)	43
Middle	13.4	93	8.8	155	17.7	106	52.4	92	(45.8)	37
Fourth	2.9	102	1.9	153	14.8	124	36.7	105	(22.7)	40
Richest	4.2	75	3.7	109	25.8	69	25.5	97	(18.6)	34
Total	12.7	438	9.1	681	15.1	493	50.2	500	35.4	184
* MICS indicator 15										

** MICS indicator 17

*** MICS indicator 16

Total includes children missing information on mother's education who are not shown separately.

Figures in parenthesis are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

Table NU.4: Adequately fed infants

Percentage of infants under 6 months of age exclusively breastfed, percentage of infants 6-11 months who are breastfed and who ate solid/semi-solid food at least the minimum recommended number of times yesterday and percentage of infants adequately fed, Somalia, 2006

			Percent of infants			
	0-5 months exclusively breastfed	6-8 months who received breastmilk and complementary food at least 2 times in prior 24 hours	9-11 months who received breastmilk and complementary food at least 3 times in prior 24 hours	6-11 months who received breastmilk and complementary food at least the minimum recommended number of times per day*	0-11 months who were appropriately fed**	Number of infants aged 0-11 months
Sex						
Male	7.9	10.2	13.9	11.5	9.6	683
Female	10.5	10.2	16.4	12.4	11.5	644
Zone						
North West	5.1	18.9	18.8	18.9	12	277
North East	1.1	12.5	9.0	11.4	5.9	148
Central South	11.7	7.0	14.9	9.8	10.8	902
Residence						
Urban	6.8	12.8	17.2	14.3	10.4	460
Rural	10.4	8.8	14.2	10.7	10.5	867
Mother's education						
None	9.2	9.8	16.2	11.9	10.5	893
Koranic	8.7	5.1	11	7.3	8.1	224
Primary or above	9.7	17	15.3	16.4	13.2	204
Wealth index quintiles						
Poorest	17.7	7.1	5.3	6.4	11.8	244
Second	14.2	9.9	14.7	11.4	13	270
Middle	8.8	10.5	19.4	13.4	10.9	291
Fourth	1.9	7.9	18.6	11.3	6.7	311
Richest	3.7	18.5	18.6	18.5	10.8	211
Total	9.1	10.2	15.2	11.9	10.5	1326

* MICS indicator 18

** MICS indicator 19

Total includes children missing information on mother's education who are not shown separately.

Table NU.5: Iodized salt consumption

Percentage of households consuming adequately iodized salt, Somalia, 2006

			Percent	t of households	with		Number of
	Percent of			Salt test	result		households
	households in which salt was tested	Number of households interviewed	No salt	< 15 PPM	15+ PPM*	Total	was tested or with no salt
Zone							
North West	93.4	1454.9	4.7	94.6	0.7	100	1426
North East	92.9	686.6	5.8	93.0	1.2	100	677
Central South	89.9	3827.4	8.7	89.8	1.4	100	3772
Residence							
Urban	95.3	2112.8	3.4	94.8	1.8	100	2083
Rural	88.9	3856.2	9.6	89.5	0.9	100	3792
Wealth index quintiles							
Poorest	82.6	1155.3	16.0	82.4	1.6	100	1136
Second	89.6	1325.3	9.1	90.2	0.7	100	1307
Middle	91.5	1245.3	6.4	92.8	0.7	100	1218
Fourth	94.8	1204.1	3.7	94.9	1.5	100	1184
Richest	97.9	1039.0	1.2	97.0	1.8	100	1030
Total	91.1	5969	7.4	91.4	1.2	100	5875

* MICS indicator 41

Adequately iodized salt is defined as salt that contains at least 15 parts per million of iodine.

Table NU.6: Children's vitamin A supplementation

Percent distribution of children aged 6-59 months by whether they have received a high dose vitamin A supplement in the last 6 months, Somalia, 2006

	Percent of	children who vitamin A:	received				Number
-	Within last 6 months*	Prior to last 6 months	Not sure when	Not sure if received vitamin A	Never received vitamin A	Total	of children aged 6-59 months
Sex							
Male	24.9	6.4	5.6	1.1	61.9	100	2908
Female	23.5	6.7	5.2	0.5	64.0	100	2716
Zone							
North West	25.9	6.7	4.1	1.0	62.2	100	1107
North East	15.2	2.6	3.3	0.3	78.6	100	587
Central South	25.1	7.1	6.1	0.9	60.8	100	3930
Residence							
Urban	29.2	7.3	8.2	0.8	54.6	100	2016
Rural	21.5	6.2	3.9	0.9	67.6	100	3608
Age							
6-11 months	18.0	2.0	2.2	0.7	77.2	100	646
12-23 months	22.8	4.4	4.4	0.7	67.7	100	1086
24-35 months	26.6	5.9	5.7	0.7	61.0	100	1264
36-47 months	25.2	8.5	5.9	0.7	59.7	100	1307
48-59 months	25.1	9.4	7.2	1.4	57.0	100	1322
Mother's education							
None	22.8	6.0	4.4	0.9	65.8	100	3495
Koranic	22.5	6.9	7.0	0.6	62.9	100	1021
Primary	29.5	8.2	7.1	0.7	54.5	100	742
Secondary +	35.7	9.3	8.4	0.2	46.4	100	176
Non standard curriculum	27.0	6.7	6.3	1.8	58.2	100	173
Wealth index quintiles							
Poorest	17.9	5.5	3.8	0.5	72.3	100	1150
Second	24.2	5.8	3.1	0.8	66.0	100	1148
Middle	23.0	6.1	5.8	1.6	63.5	100	1149
Fourth	28.8	7.3	5.4	0.6	57.9	100	1155
Richest	27.5	8.3	9.6	0.7	53.9	100	1023
Total	24.2	6.6	5.4	0.8	62.9	100	5624

* MICS indicator 42

Total includes 17 children missing information on mother's education who are not shown separately.

Figures in parenthesis are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

Table NU.7: Post-partum mothers' vitamin A supplementation

Percentage of women aged 15-49 years with a live birth in the 2 years preceding the survey by whether they received a high dose vitamin A supplement before the infant was 8 weeks old, Somalia, 2006

	Received vitamin A supplement*	Not sure if received vitamin A	Number of women aged 15-49 years
Zone			
North West	13.1	2.8	496
North East	6.0	1.1	269
Central South	7.7	1.9	1560
Residence			
Urban	15.1	2.3	852
Rural	4.9	1.8	1472
Education			
None	6.9	2.0	1460
Koranic	7.3	2.8	369
Primary	16.4	1.2	314
Secondary +	23.4	3.8	64
Non standard curriculum	7.7	2.0	75
Wealth index quintiles			
Poorest	4.7	2.3	435
Second	4.7	1.8	468
Middle	5.1	1.5	483
Fourth	10.4	1.7	508
Richest	19.0	2.8	430
Total	8.7	2.0	2325

*MICS indicator 43

Total includes 43 women missing information on education who are not shown separately.

Table NU.8: Child size at birth

Percentage of live births in the 2 years preceding the survey by mother's estimate of baby size at birth, Somalia, 2006

	_		Size of child	at birth as e	stimated by	the mothe	•		
	Weighed at birth*	Very large	Larger than average	Average	Smaller than average	Very small	Don't know/ missing	Total	Number of births
Zone									
North West	12.2	11.3	10.0	64.5	6.0	5.6	2.7	100	496
North East	2.7	6.3	3.9	70.4	6.8	11.3	1.2	100	269
Central South	2.4	5.1	3.3	53.7	11.7	20.9	5.2	100	1560
Residence									
Urban	10.2	9.6	6.3	53.4	9.0	19.1	2.6	100	852
Rural	1.3	4.8	4.0	60.6	10.5	15.0	5.2	100	1472
Mother's education									
None	2.1	5.9	4.3	57.3	10.3	17.3	4.9	100	1460
Koranic	3.0	5.2	3.3	58.9	9.6	18.6	4.3	100	369
Primary	13.4	9.9	7.3	58.5	9.2	12.9	2.2	100	314
Secondary +	25.5	7.5	10.8	63.5	6.2	8.3	3.8	100	64
Non standard curriculum	7.6	12.5	10.0	48.8	12.9	15.2	0.6	100	75
Wealth index quintiles									
Poorest	1.4	5.8	3.8	52.8	14.1	14.1	9.2	100	435
Second	0.8	4.0	2.8	61.3	9.1	18.6	4.2	100	468
Middle	1.8	4.0	3.4	64.4	10.6	13.9	3.7	100	483
Fourth	3.2	8.4	5.4	60.2	8.6	14.3	3.0	100	508
Richest	16.4	10.7	8.9	49.6	7.4	22.2	1.2	100	430
Total	4.5	6.6	4.8	57.9	9.9	16.5	4.2	100	2325

** MICS indicator 10

Total includes 43 children missing information on mother's education who are not shown separately.

Table CH.1: Vaccinations in first year of life

Percentage of children aged 12-23 months immunized against childhood diseases at any time before the survey and before the first birthday, Somalia, 2006

					Percen	itage of ch	ildren who	o received:				Number
	BCG*	DPT1	DPT2	DPT3**	PolioO	Polio1	Polio2	Polio3***	Measles****	All****	None	of children aged 12-23 months
Vaccinated at any time before the survey												
According to:												
Vaccination card	8	8.1	7.6	7.4	6.6	8	7.8	7.5	7.1	7.8	0	1086
Mother's report	21.9	16.3	11.2	6.7	8.5	53.9	46.3	31.1	22.3	4	36.3	1086
Either	29.9	24.4	18.8	14.2	15.2	61.9	54.1	38.6	29.4	11.7	36.3	1086
Vaccinated by 12 months of age	25.7	20.4	16.6	12.2	15.2	51.5	47.7	34.8	18.9	4.8	37.3	1086

* MICS indicator 25

** MICS indicator 27

*** MICS indicator 26

**** MICS indicator 28; MDG indicator 15

Table CH.2: Vaccinations by background characteristics

Percentage of children aged 12-23 months currently vaccinated against childhood diseases, Somalia, 2006

					Percentag	je of child	ren who re	eceived:					Number
	BCG	DPT1	DPT2	DPT3	PolioO	Polio1	Polio2	Polio3	Measles	All	None	Percent with health card	of children aged 12-23 months
Sex													
Male	29.9	25.3	20.4	15.9	17.3	61.3	54.6	38.7	29.9	13.9	37.4	9.6	577
Female	29.9	23.4	16.9	12.3	12.7	62.7	53.4	38.5	28.8	9.3	35	6.3	510
Zone													
North West	36.7	25.3	11.1	4.8	16.4	72.2	60.3	35.1	33.2	3.3	24.6	1.3	253
North East	18.6	16	11.8	6.4	7.3	40.3	36.7	23.7	15.9	5.2	58.1	2.4	124
Central South	29.5	25.5	22.7	18.8	16.1	62.1	54.9	42.4	30.5	15.9	36.6	11.4	709
Residence													
Urban	47	42.3	34.3	26.4	27.7	75.4	70.1	53.8	40.4	21.9	23.1	15.1	410
Rural	19.6	13.6	9.4	6.8	7.6	53.9	44.6	29.6	23	5.7	44.2	3.8	677
Mother's education													
None	23.5	18.6	13.9	10.6	12.5	58.1	48.9	34.2	23.8	8.8	39.9	6.3	635
Koranic	28.8	23	19	15.6	16.7	57	51.1	37.2	29	12.5	41.6	10.8	209
Primary	44.9	36.4	27	19.2	15.7	75.5	70.4	49.4	42	15.2	23.6	9.3	163
Secondary	63.2	58.9	45.6	24.7	41	83.8	75.1	56	48.4	19.4	14.6	5.3	41
Non Standard Curriculum	40.8	37.5	34.9	32.3	20.9	70.2	64.4	55.9	52.8	31.5	26.5	20.9	36
Wealth index quintiles													
Poorest	18.7	13.2	10.2	5.4	8.2	45	34.9	22.5	22.2	5.4	52.5	3	200
Second	14.5	11	6.5	6.5	5.9	53.4	43.7	26.6	18.9	4.5	45.9	3.7	216
Middle	27.9	20.7	16.5	14.6	15.8	61.2	54.9	43.1	27.4	13.1	36.9	11.1	217
Fourth	33.7	26.9	19.4	14.7	16.1	69.8	63.3	45	30.9	13.1	29.1	9.8	233
Richest	53.1	48.6	40.1	28.8	28.9	78.4	72.4	54.8	47.4	22.2	18.9	12	220
Total	29.9	24.4	18.8	14.2	15.2	61.9	54.1	38.6	29.4	11.7	36.3	8	1086

Total includes 2 children missing information on mother's education who are not shown separately.

An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

Table CH.3: Neonatal tetanus protection

Percentage of mothers with a birth in the last 12 months protected against neonatal tetanus, Somalia, 2006

		Percent of	mothers with a bi	rth in the last 12	months who:		_
	Received at least 2 doses during last pregnancy	Received at least 2 doses, the last within prior 3 years	Received at least 3 doses, last within prior 5 years	Received at least 4 doses, last within prior 10 years	Received at least 5 doses during lifetime	Protected against tetanus*	Number of mothers
Zone							
North West	10.9	4.7	0.2	0.4	0.2	16.5	496
North East	14.8	5.7	0.3	0.3	0.2	21.3	269
Central South	20.5	6.4	1.4	1.7	0.3	30.2	1560
Residence							
Urban	33.0	11.0	1.9	2.3	0.4	48.5	852
Rural	9.0	3.0	0.5	0.6	0.2	13.4	1472
Mother's Age							
15-19	20.7	3.4	0.5	0.0	0.0	24.6	240
20-24	19.1	6.2	0.8	0.0	0.0	26.1	630
25-29	20.5	5.2	1.7	0.6	0.2	28.2	631
30-34	15.9	8.2	0.9	3.3	0.6	28.9	391
35-39	11.9	5.4	0.6	3.6	0.0	21.4	279
40 +	12.8	6.7	0.8	1.4	1.8	23.5	154
Mother's education							
None	14.4	4.2	0.4	0.9	0.2	20.0	1460
Koranic	17.0	6.0	2.6	1.4	0.3	27.2	369
Primary	31.4	10.8	1.8	2.6	0.5	47.1	314
Secondary +	32.0	18.2	1.9	4.4	0.0	56.4	64
Non standard curriculum	23.5	12.6	2.3	0.0	1.8	40.1	75
Wealth index quintiles							
Poorest	7.4	1.1	0.0	0.0	0.0	8.6	435
Second	8.6	2.7	0.3	0.3	0.3	12.0	468
Middle	15.2	4.5	0.2	0.9	0.1	20.9	483
Fourth	23.0	9.2	1.5	2.2	0.2	36.1	508
Richest	35.3	12.0	3.0	2.8	0.8	53.9	430
Total	17.8	5.9	1.0	1.2	0.3	26.3	2325

* MICS indicator 32

Total includes 43 children missing information on mother's education who are not shown separately.

Table CH.4: Oral rehydration treatment

Percentage of children aged 0-59 months with diarrhoea in the last two weeks and treatment with oral rehydration solution (ORS) or other oral rehydration treatment (ORT), Somalia, 2006

		Number	Ch	ildren with diarrho	oea who receiv	ed:		
	Had diarrhoea in last two weeks	of children aged 0-59 months	Fluid from ORS packet	Recommended homemade fluid	Pre- packaged ORS fluid	No treatment	ORT Use Rate *	Number of children aged 0-59 months with diarrhoea
Sex								
Male	22.5	3275	9.0	10.3	7.8	78.3	21.7	736
Female	19.7	3030	9.2	8.2	6.6	80.3	19.7	597
Zone								
North West	13.1	1244.4	22.9	26.2	15.4	49.9	50.1	163
North East	11.4	666.4	16.0	18.7	12.9	63.4	36.6	76
Central South	24.9	4394.3	6.6	6.2	5.7	84.6	15.4	1095
Residence								
Urban	16.9	2254	18.6	16.5	11.9	62.4	37.6	380
Rural	23.5	4051	5.3	6.6	5.4	85.8	14.2	954
Age								
< 6 months	18.3	681	6.9	5.0	7.3	82.8	17.2	124
0-11 months	30.8	646	11.9	11.0	5.3	76.5	23.5	199
12-23 months	28.0	1086	7.1	6.0	7.7	82.9	17.1	304
24-35 months	23.9	1264	8.7	9.4	6.5	79.1	20.9	303
36-47 months	17.5	1307	11.0	13.3	8.2	75.0	25.0	229
48-59 months	13.3	1322	9.1	11.3	8.6	78.7	21.3	175
Mother's education								
None	22.6	3924	7.2	7.5	7.1	83.0	17.0	887
Koranic	22.6	1151	10.0	8.2	4.1	80.5	19.5	261
Primary +	15.3	1015	16.6	18.2	11.8	60.0	40.0	156
Non Standard Curriculum	(13.9)	(194)	(14.2)	(29.2)	(9.7)	(61.1)	(38.9)	27
Wealth index quintiles								
Poorest	25.9	1266	3.7	3.9	4.3	90.1	9.9	328
Second	25.5	1294	4.0	4.1	3.9	91.0	9.0	330
Middle	23.1	1304	8.9	12.6	6.8	76.9	23.1	302
Fourth	16.8	1308	15.5	17.6	12.7	61.6	38.4	219
Richest	13.6	1132	22.7	14.6	13.9	59.9	40.1	154
Total	21.2	6305	9.1	9.4	7.3	79.2	20.8	1334

* MICS indicator 33

Total includes 3 children missing information on mother's education who are not shown separately.

Figures in parenthesis are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

Table CH.5: Home management of diarrhoea

Percentage of children aged 0-59 months with diarrhoea in the last two weeks who took increased fluids and continued to feed during the episode, Somalia, 2006

			I	Children with	n diarrhoea wh	10:			
	Had diarrhoea in last two weeks	Number of children aged 0-59 months	Drank more	Drank the same or less	Ate somewhat less, same or more	Ate much less or none	Home manage- ment of diarrhoea*	Received ORT or increased fluids AND continued feeding**	Number of children aged 0-59 months with diarrhoea
Sex									
Male	22.5	3275	3.7	93.8	27.8	70.8	1.7	7.0	736
Female	19.7	3030	3.0	94.9	27.7	70.2	1.8	6.4	597
Zone									
North West	13.1	1244.4	3.3	93.9	26.2	70.5	1.2	15.9	163
North East	11.4	666.4	2.7	93.8	35.1	61.7	0.0	13.4	76
Central South	24.9	4394.3	3.4	94.4	27.5	71.1	2.0	4.9	1095
Residence									
Urban	16.9	2254	3.9	94.2	32.5	66.4	1.5	8.8	380
Rural	23.5	4051	3.1	94.3	25.8	72.2	1.9	6.0	954
Age									
0-11 months	24.4	1326	1.9	96.5	19.3	79.5	0.7	4.1	323
12-23 months	28.0	1086	3.0	94.3	27.8	69.5	1.4	5.7	304
24-35 months	23.9	1264	3.8	94.5	28.6	69.9	1.2	5.9	303
36-47 months	17.5	1307	3.8	93.8	34.3	64.8	3.7	11.5	229
48-59 months	13.3	1322	5.4	90.4	33.2	64.3	2.7	8.8	175
Mother's education									
None	22.6	3924	3.5	93.7	24.6	73.5	2.1	6.1	887
Koranic	22.6	1151	1.7	97.2	34.1	64.4	0.9	5.8	261
Primary +	15.3	1015	5.1	92.6	36.4	61.9	1.4	12.6	156
Non Standard Curriculum	(13.9)	(194)	(4.8)	(95.2)	(19.1)	(80.9)	(0)	(0)	27
Wealth index quintiles									
Poorest	25.9	1266	4.4	91.4	21.4	76.2	2.9	5.1	328
Second	25.5	1294	3.1	94.3	26.9	71.6	1.7	4.4	330
Middle	23.1	1304	2.1	97.0	27.8	70.7	1.7	7.2	302
Fourth	16.8	1308	3.9	93.4	25.8	72.2	1.4	9.1	219
Richest	13.6	1132	3.3	96.3	45.7	53.4	0.0	11.2	154
Total	21.2	6305	3.4	94.3	27.7	70.5	1.8	6.8	1334

* MICS indicator 34

** MICS indicator 35

Total includes 3 children missing information on mother's education who are not shown separately.

Figures in parenthesis are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

Number of of children Had acute aged children Had acute aged children Had acute aged children Had acute 3050 infection ¹ months Hos Nale Nale Tage North Vest North Vest Central South Contral South Contra South Contral South Contral South Contral South	Govt. Hospital 1.5	Publ Govt. health centre**	Child ic sources	dren with s	uspected p	neumonia w	rho were tak	en to:				Number
Number of children Had acute aged respiratory 0-59 Gc infection ¹ months Hos infection ¹ months Hos	Govt. Hospital 2.5 1.5	Publ Govt. health centre**	ic sources			'						
of children Had acute aged respiratory 0-59 Gc infection ¹ months Hos Sex Male 15.4 3275 2 Female 14.2 3030 1 Zone 6.6 1244.4 1 North West 6.6 1244.4 1 North East 6.6 1244.4 1 Central South 16.7 2015 2	Govt. Hospital 2.5 1.5	Govt. health centre**				-	rivate sourc	es	Other s	ource		of children
Sex 15.4 3275 2 Male 15.4 3275 2 Female 14.2 3030 1 Zone 14.2 3030 1 North West 6.6 1244.4 1 North East 6.3 666.4 8 Central South 0.5 0.5 0.5	2.5		Govt. health post**	Village health worker	Other public	Private hospital/ clinic	Private physician	Pharmacy	Relative or friend	Trad. Practi- tioner	Any appropriate provider*	aged 0-59 months with suspected pneumonia
Female 14.2 3030 1 Zone 14.2 3030 1 North West 6.6 1244.4 1 North East 6.3 666.4 8 Central South 0.7 0.7.5 0.4.5 6.6	, <u>1</u> .5	5.1	0.3	1.0	0.1	2.8	3.5	18.9	0.2	1.0	14.4	506
Zone 6.6 1244.4 1 North West 6.3 666.4 8 Central South 6.1 7 6		3.1	0.3	1.2	0.0	1.9	3.9	15.5	0.7	1.3	11.4	429
North West 6.6 1244.4 1 North East 6.3 666.4 8 Central South 105 105 105												
North East 6.3 666.4 8 Central South		0.9	0.0	0.0	0.0	6.9	6.9	13.8	1.5	0.0	15.9	82
Central South	8.5	3.0	1.2	2.8	1.1	5.5	2.4	10.3	1.4	0.0	22.0	42
Residence 4394.3	1.8	4.6	0.3	1.1	0.0	1.8	3.4	18.1	0.3	1.3	12.3	811
Urban 13.9 2254 4	4.4	9.4	0.2	0.0	0.0	5.1	5.9	27.6	0.0	1.3	23.7	313
Rural 15.4 4051 0	0.8	1.6	0.4	1.6	0.1	1.0	2.6	12.2	0.6	1.0	7.7	622
Age	0	2	-	2		2) İ	1	2	2		
0-11 months 13.1 1326 2	2.1	4.1	1.3	1.9	0.0	2.9	4.5	12.0	0.7	0.6	15.5	174
12-23 months 16.0 1086 1	1.9	5.9	0.0	0.3	0.0	3.1	2.7	20.9	0.0	0.0	13.0	173
24-35 months 16.0 1264 2	2.8	5.9	0.0	1.2	0.2	3.1	5.8	13.1	0.6	2.0	18.5	203
36-47 months 14.9 1307 0	0.7	1.9	0.2	1.4	0.0	1.8	3.6	21.9	0.3	2.1	9.8	195
48-59 months 14.4 1322 2	2.7	3.2	0.0	0.5	0.0	1.2	1.8	18.7	0.5	0.7	8.3	190
Mother's education												
None 15.4 3924 1	1.3	3.6	0.2	1.0	0.1	1.6	2.4	15.1	0.5	1.2	9.8	605
Koranic 17.5 1151 2	2.6	4.1	0.2	1.0	0.0	2.9	3.0	18.3	0.5	1.5	12.6	201
Primary+ 10.0 1015 5	5.0	7.8	0.0	0.6	0.0	4.5	13.0	23.5	0.0	0.0	29.5	102
Non Standard Curriculum (*) (*) (*) Wealth index miintiles	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	25
Poorest 18.0 1266 0	0.7	1.2	0.0	0.5	0.0	0.4	2.1	6.5	0.0	[]	4.6	777
Second 16.0 1294 0	0.5	3.1	0.0	2.1	0.0	1.4	1.1	11.1	0.5	2.5	7.7	207
Middle 14.3 1304 1	1.2	5.5	1.5	2.1	0.0	0.9	3.3	17.8	1.6	1.6	13.1	187
Fourth 13.7 1308 2	2.4	5.5	0.0	0.3	0.3	2.6	8.2	30.6	0:0	0.0	18.8	179
Richest 11.9 1132 7	7.4	7.3	0.0	0.0	0.0	9.0	5.0	27.0	0.0	0.0	27.7	135
Total 14.8 6305 2	2.0	4.2	0.3	1.1	0.0	2.4	3.7	17.3	0.4	1.1	13.0	935
* MICS indicator 23 ** In the Central South Zone gov Total includes 2 children mission information on mother's educat	le governmen durcation who	it hospitals, h	nealth cent	res and pos	ts are curre	ently provide tes that a fir	d by NGOs/L	JN on fewer that	n 25 unweidh	ted rases	ills ueed sed bue	passaru

Table CH.7: Antibiotic treatment of pneumonia

Percentage of children aged 0-59 months with suspected pneumonia who received antibiotic treatment, Somalia, 2006

	Percentage of children aged 0-59 months with suspected pneumonia who received antibiotics in the last two weeks*	Number of children aged 0-59 months with suspected pneumonia in the two weeks prior to the survey
Sex		
Male	35.2	506
Female	29.0	429
Region		
North West	27.7	82
North East	26.1	42
Central South	33.1	811
Residence		
Urban	49.0	313
Rural	24.0	622
Age		
0-11 months	30.6	174
12-23 months	34.1	173
24-35 months	32.8	203
36-47 months	33.7	195
48-59 months	30.5	190
Mother's education		
None	28.3	605
Koranic	34.5	201
Primary	39.7	83
Secondary +	(*)	18
Non Standard Curriculum	(*)	25
Wealth index quintiles		
Poorest	13.8	227
Second	22.7	207
Middle	34.7	187
Fourth	49.3	179
Richest	52.9	135
Total	32.4	935

* MICS indicator 22

Total includes 2 children missing information on mother's education who are not shown separately.

An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

Lot able to drink or breastfieldIs not able breastfieldBecomes a feverDevelops breastfieldHas fast breastfieldHas difficult blood in a toolHas blood in breastfieldHas blood in a toolZone Dorith West 39.6 47.4 46.6 31.2 37.6 32.2 North West 38.1 39.8 40.1 29.1 31.0 30.1 Zone North West 38.1 39.8 40.1 29.1 31.0 30.1 North West 38.1 39.8 40.1 29.1 31.0 30.1 Residence North 38.1 39.8 40.1 25.7 27.7 25.7 North West 39.3 42.3 44.1 25.7 27.7 25.7 Nore 37.0 38.3 38.3 42.1 25.7 27.7 25.7 Nore 37.0 38.3 38.3 25.3 26.1 25.9 Nore 37.0 38.3 38.3 25.3 26.1 25.9 Nore 37.9 47.2 24.8 23.3 31.4 Nore 37.9 47.2 27.2 26.6 27.8 Nore 38.3 38.3 32.3 23.3 32.5 Secondary + 33.8 36.4 42.5 27.2 26.6 27.8 Nore 39.1 41.4 42.5 27.2 26.6 27.8 Nore 39.1 31.6 47.2 28.6 31.9 30.2 <	a heal	0-59 months who th facility if the c	think that a hild:	child should	be taken imm	ediately to	Mothers/ caretakers who	
ZoneZoneSouth West 39.6 47.4 46.6 31.2 37.6 32.2 North East 39.4 49.3 17.8 22.0 17.8 Central South 38.1 39.8 40.1 29.1 31.0 30.1 Residence 39.3 39.4 49.3 17.8 22.0 17.8 Urban 35.8 39.4 44.1 25.7 27.7 25.7 Nural 39.3 42.3 41.4 25.7 27.7 25.7 Rural 39.3 42.3 41.4 25.7 27.7 25.9 Nural 39.3 32.8 30.3 33.8 30.8 30.8 None 39.3 42.6 42.2 30.3 33.8 30.8 None 33.6 42.6 42.2 20.3 26.1 25.9 None 33.6 42.6 42.2 20.3 26.1 25.9 Primary 31.2 38.3 38.3 25.3 23.3 29.2 31.4 None 31.6 47.2 27.2 26.6 21.8 Primary 32.9 44.1 42.6 27.2 26.6 21.8 Primary 32.9 23.3 32.3 31.9 30.7 31.9 30.2 Primary 32.9 41.7 28.9 31.5 27.5 26.6 21.8 Primary 39.7 41.7 28.9 31.5 27.5 26.6 21.8 Primary <td< th=""><th>es Develops Has fast r a fever breathing</th><th>Has difficult breathing</th><th>Has blood in stool</th><th>ls drinking poorlv</th><th>ls coudhing</th><th>Has diarhoea</th><th>recognize the two danger signs of pneumonia*</th><th>Number of mothers/ caretakers of children aged 0-59 months</th></td<>	es Develops Has fast r a fever breathing	Has difficult breathing	Has blood in stool	ls drinking poorlv	ls coudhing	Has diarhoea	recognize the two danger signs of pneumonia*	Number of mothers/ caretakers of children aged 0-59 months
North West 39.6 47.4 46.6 31.2 37.6 32.2 North East 34.5 39.4 49.3 17.8 22.0 17.8 Central South 38.1 39.3 39.4 49.3 17.8 22.0 17.8 Central South 38.1 39.3 39.4 40.1 29.1 31.0 30.1 Residence 35.8 39.4 44.1 25.7 27.7 25.7 Rural 39.3 42.3 41.4 29.8 33.3 31.2 Nore 39.3 42.2 30.3 33.3 31.2 Nore 37.0 38.3 38.3 25.3 26.1 25.9 Nore 37.0 38.3 38.3 25.3 29.2 31.4 None 37.0 38.3 36.4 47.2 29.3 26.1 25.9 Scondary+ 37.0 37.3 27.2 26.6 21.8 Non standard curriculum 32.3				-	0		-	
North East 34.5 39.4 49.3 17.8 22.0 17.8 Central South 38.1 39.8 40.1 29.1 31.0 30.1 Residence 38.1 39.8 40.1 29.1 31.0 30.1 Rural 35.8 39.4 44.1 25.7 27.7 25.7 Urban 35.8 39.3 42.3 44.1 25.7 27.7 25.7 Bural 39.3 42.3 44.1 25.7 27.7 25.7 Bural 39.3 42.6 42.6 42.2 30.3 33.3 31.2 Bural 39.6 42.6 42.2 30.3 33.3 31.2 None 37.0 38.3 38.3 25.3 26.1 25.9 None 37.0 38.3 38.3 22.3 29.2 31.4 None 37.0 38.3 38.3 23.3 23.3 31.2 None 37.9 47.2 27.2 24.8 28.0 None 39.1 41.4 42.0 27.2 29.2 31.6 None 39.1 41.7 46.0 30.7 31.6 32.6 None 39.1 41.7 28.9 31.6 32.6 Secondary+ 39.1 41.7 28.9 31.6 32.6 None 39.1 41.7 42.5 32.0 31.6 None 39.1 41.7 28.9 31.6 32.6 Second 39.5 <	4 46.6 31.2	37.6	32.2	26.8	46.9	61.6	19.6	1244
Central South 38.1 39.8 40.1 29.1 31.0 30.1 Residence 35.8 39.4 44.1 25.7 27.7 25.7 Urban 39.3 39.4 44.1 25.7 27.7 25.7 Bural 39.3 39.3 42.3 41.4 25.7 27.7 25.7 Bural 39.3 39.6 42.6 42.2 30.3 33.3 31.2 Bural 39.6 42.6 42.2 30.3 33.3 31.2 Mother's education 39.6 42.6 42.2 30.3 33.3 31.2 None 37.0 38.3 38.3 36.4 48.3 25.3 26.1 25.9 None 37.0 38.3 36.4 48.3 25.3 26.1 25.9 Secondary + 33.8 36.4 48.3 23.3 23.2 26.1 25.6 Non standard curriculum 32.9 47.4 42.0 27.2 26.6 27.6 Non standard curriculum 39.1 41.7 40.0 30.7 31.9 30.2 Ponest 39.1 41.7 28.9 31.9 32.9 27.6 Niddle 40.6 37.9 20.6 27.7 20.6 27.7 Second 31.6 27.6 27.7 20.6 27.7 Ponest 31.6 27.7 20.6 27.7 20.6 27.7 Second 37.9 27.6 27.7 20.6 2	4 49.3 17.8	22.0	17.8	17.1	35.6	59.1	5.4	666
Residence 35.8 39.4 44.1 25.7 27.7 25.7 Urban 39.3 42.3 41.4 29.8 33.3 31.2 Rural 39.3 42.3 41.4 29.8 33.3 31.2 Mother's education 39.6 42.6 42.2 30.3 33.3 31.2 None 37.0 38.3 38.3 28.3 28.1 27.5 None 37.0 38.3 36.4 48.3 28.3 28.1 27.5 No standard curriculum 32.9 43.4 42.0 27.2 26.6 21.8 No standard curriculum 32.9 43.4 42.0 27.2 26.6 21.8 No standard curriculum 39.7 44.1 40.0 30.7 31.9 32.6 Second 38.5 41.7 28.6 30.7 31.9 32.6 Middle 40.5 41.7 28.6 <	8 40.1 29.1	31.0	30.1	27.8	27.7	34.6	15.1	4394
Urban 35.8 39.4 44.1 25.7 27.7 25.7 Rural 39.3 42.3 41.4 29.8 33.3 31.2 Morther's education 39.6 42.6 42.3 30.3 33.3 31.2 Mone 39.6 42.6 42.2 30.3 33.8 30.8 None 37.0 38.3 38.3 26.1 25.9 None 37.0 38.3 38.3 26.1 25.9 Primary 37.0 38.3 38.3 26.1 25.9 Secondary + 33.8 36.4 48.3 23.3 29.2 31.4 Non standard curriculum 32.9 43.4 42.0 27.2 26.6 21.8 Poorest 39.1 41.4 42.0 27.2 26.6 21.8 Middle 40.0 30.7 31.9 30.2 Second 39.1 41.4 42.0 27.2 28.9 Middle 40.6 20.6 20.6 27.5 Richest 31.6 20.7 20.7 27.5								
Bural 39.3 42.3 41.4 29.8 33.3 31.2 Mother's education 39.6 42.6 42.2 30.3 33.3 31.2 None 39.6 42.6 42.2 30.3 33.3 30.8 None 37.0 38.3 36.3 32.3 26.1 25.9 Koranic 37.0 38.3 36.4 47.2 24.8 28.0 27.5 Primary 34.2 38.3 36.4 48.3 23.3 29.2 31.4 Non standard curriculum 32.9 43.4 42.0 27.2 26.6 21.8 Non standard curriculum 32.9 43.4 42.0 27.2 26.6 21.8 Non standard curriculum 32.9 44.1 40.0 30.7 31.9 32.6 Non standard curriculum 33.1 41.4 42.5 32.7 26.6 21.8 Non standard curriculum 33.1 41.4 42.5 32.7 32.6 31.6 32.6 No standard curriculum 33.1 41.4 42.6 33.7 33.7 32.5 32.6 Poorest 33.7 41.7 42.6 32.9 31.5 32.5 Poorest 33.6 37.0 37.0 37.0 37.6 Niddle 40.6 37.7 28.9 31.5 32.5 Fourth 38.5 41.7 28.9 31.5 32.5 Second 37.9 40.6 20.6 24.7 25	4 44.1 25.7	27.7	25.7	19.5	29.8	40.5	11.8	2254
Morther's education 39.6 42.6 42.2 30.3 33.8 30.8 None 37.0 38.3 38.3 25.3 26.1 25.9 Koranic 37.0 38.3 38.3 25.3 26.1 25.9 Primary 34.2 38.9 47.2 24.8 28.0 27.5 Secondary + 33.8 36.4 48.3 23.3 29.2 31.4 Non standard curriculum 32.9 43.4 42.0 27.2 26.6 21.8 Non standard curriculum 32.9 43.4 42.0 27.2 26.6 21.8 Poorest 39.1 41.4 42.5 32.0 37.0 32.6 Poorest 39.7 44.1 40.0 30.7 31.9 30.2 Middle 40.5 40.0 30.7 28.9 30.7 32.5 Fourth 38.5 41.7 28.9 30.9 27.5 Richest 31.6 27.7 20.6 24.7 22.5	3 41.4 29.8	33.3	31.2	30.4	33.7	43.7	16.8	4051
None 39.6 42.6 42.2 30.3 33.8 30.8 Koranic 37.0 38.3 38.3 25.3 26.1 25.9 Primary 37.0 38.3 38.3 25.3 26.1 25.9 Primary 34.2 38.9 47.2 24.8 28.0 27.5 Secondary + 33.8 36.4 48.3 23.3 29.2 31.4 Non standard curriculum 32.9 43.4 42.0 27.2 26.6 21.8 Non standard curriculum 32.9 43.4 42.0 27.2 26.6 21.8 Poorest 39.1 41.4 42.0 27.2 26.6 21.8 Poorest 39.7 44.1 40.0 30.7 31.9 30.2 Second 39.7 44.1 40.0 30.7 31.9 30.2 Middle 40.5 31.7 28.9 31.5 32.5 Fourth 38.5 41.7 28.9								
Koranic 37.0 38.3 38.3 25.3 26.1 25.9 Primary 34.2 38.9 47.2 24.8 28.0 27.5 Primary 34.2 38.9 47.2 24.8 28.0 27.5 Secondary + 33.8 36.4 48.3 23.3 29.2 31.4 Non standard curriculum 32.9 43.4 42.0 27.2 26.6 21.8 Non standard curriculum 32.9 43.4 42.0 27.2 26.6 21.8 Vealth index quintiles 39.1 41.4 42.5 32.0 37.0 32.6 Poorest 39.7 41.1 40.0 30.7 31.9 30.2 Middle 40.5 40.9 41.7 28.9 31.5 32.5 Fourth 38.5 41.7 28.9 30.9 27.5 Richest 31.6 27.9 20.6 27.7 22.5	6 42.2 30.3	33.8	30.8	28.7	33.7	43.2	16.8	3924
Primary 34.2 38.9 47.2 24.8 28.0 27.5 Secondary + 33.8 36.4 48.3 23.3 29.2 31.4 Non standard curriculum 32.9 43.4 42.0 27.2 26.6 21.8 Non standard curriculum 32.9 43.4 42.0 27.2 26.6 21.8 Non standard curriculum 32.9 43.4 42.0 27.2 26.6 21.8 Non standard curriculum 32.9 44.1 42.0 27.2 26.6 21.8 Poorest 39.1 41.4 42.5 32.0 37.0 32.6 Poorest 39.7 44.1 40.0 30.7 31.9 30.2 Middle 40.5 40.0 30.7 28.9 30.2 32.5 Fourth 38.5 41.7 46.8 28.6 30.9 27.5 Richest 31.6 37.9 40.6 20.6 24.7 22.5	3 38.3 25.3	26.1	25.9	24.1	26.9	38.6	11.5	1151
Secondary+ 33.8 36.4 48.3 23.3 29.2 31.4 Non standard curriculum 32.9 43.4 42.0 27.2 26.6 21.8 Wealth index quintiles 39.1 41.4 42.0 27.2 26.6 21.8 Poorest 39.1 41.4 42.5 32.0 37.0 32.6 Poorest 39.7 44.1 40.0 30.7 31.9 30.2 Middle 40.5 40.9 41.7 28.9 31.5 32.5 Fourth 38.5 41.7 46.8 28.6 30.9 27.5 Richest 31.6 37.9 40.6 20.6 24.7 22.5	9 47.2 24.8	28.0	27.5	22.1	32.6	45.1	12.3	821
Non standard curriculum 32.9 43.4 42.0 27.2 26.6 21.8 Wealth index quintles 39.1 41.4 42.5 32.0 37.0 32.6 Poorest 39.7 44.1 40.0 30.7 31.9 30.2 Second 39.7 44.1 40.0 30.7 31.9 30.2 Middle 40.5 40.9 41.7 28.9 31.5 32.5 Curth 38.5 41.7 46.8 28.6 30.9 27.5 Fourth 31.6 37.9 40.6 20.6 24.7 22.5 Richest 31.6 37.9 40.6 20.6 24.7 22.5	4 48.3 23.3	29.2	31.4	23.6	43.4	43.8	13.1	194
Wealth index quintiles 39.1 41.4 42.5 32.0 37.0 32.6 Poorest 39.7 41.4 42.5 32.0 37.0 32.6 Second 39.7 44.1 40.0 30.7 31.9 30.2 Middle 40.5 40.9 41.7 28.9 31.5 32.5 Fourth 38.5 41.7 46.8 28.6 30.9 27.5 Richest 31.6 37.9 40.6 20.6 24.7 22.5	4 42.0 27.2	26.6	21.8	17.9	25.4	41.1	10.7	194
Poorest 39.1 41.4 42.5 32.0 37.0 32.6 Second 39.7 44.1 40.0 30.7 31.9 30.2 Middle 39.5 44.1 40.0 30.7 31.9 30.2 Middle 40.5 40.9 41.7 28.9 31.5 32.5 Fourth 38.5 41.7 46.8 28.6 30.9 27.5 Richest 31.6 37.9 40.6 20.6 24.7 22.5								
Second 39.7 44.1 40.0 30.7 31.9 30.2 Middle 40.5 40.9 41.7 28.9 31.5 32.5 Fourth 38.5 41.7 46.8 28.6 30.9 27.5 Richest 31.6 37.9 40.6 20.6 24.7 22.5	4 42.5 32.0	37.0	32.6	32.4	29.7	38.7	18.3	1266
Middle 40.5 40.9 41.7 28.9 31.5 32.5 Fourth 38.5 41.7 46.8 28.6 30.9 27.5 Richest 31.6 37.9 40.6 20.6 24.7 22.5	1 40.0 30.7	31.9	30.2	30.8	36.0	42.8	15.9	1294
Fourth 38.5 41.7 46.8 28.6 30.9 27.5 Richest 31.6 37.9 40.6 20.6 24.7 22.5	9 41.7 28.9	31.5	32.5	27.4	34.5	42.9	15.8	1304
Richest 31.6 37.9 40.6 20.6 24.7 22.5	7 46.8 28.6	30.9	27.5	24.3	31.5	46.4	16.0	1308
	9 40.6 20.6	24.7	22.5	16.5	29.7	41.7	8.1	1132
Total 38.0 41.3 42.4 28.3 31.3 29.2	3 42.4 28.3	31.3	29.2	26.5	32.3	42.5	15.0	6305

Table CH.7A: Knowledge of the two danger signs of pneumonia

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fuel
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Percent distribution of households according to type of cooking fuel, and percentage of households using solid fuels for cooking, Somalia, 2006

				,						
				Percentag	e of households	using:				
	Flectricity	Liquified Petroleum Gas (1 PG)	Kernsene	Charcoal	poor	Straw, shrubs, grass	Agricultural cron residue	Total	Solid fuels for conking*	Number of
Zone	L'OCHOIL &				200	8		200	Rivon Di	
North West	0.2	0.1	0.4	43.7	44.9	10.2	0.0	100	98.9	1455
North East	0.3	0.0	0.1	45.1	54.1	0.2	0.0	100	99.4	687
Central South	0.0	0.0	0.1	27.0	71.6	1.2	0.1	100	99.9	3827
Residence										
Urban	0.2	0.1	0.3	79.1	19.3	0.8	0.0	100	99.3	2113
Rural	0.0	0.0	0.1	8.0	87.1	4.6	0.1	100	99.8	3856
Education of household head										
None	0.1	0.0	0.2	27.9	67.4	4.2	0.1	100	99.6	2323
Koranic	0.0	0.0	0.1	19.3	77.3	3.2	0.0	100	99.8	1878
Primary	0.3	0.0	0.0	42.9	54.4	2.0	0.3	100	99.6	840
Secondary +	0.1	0.1	0.3	74.3	23.1	1.8	0.0	100	99.2	643
Non standard curriculum	0.0	0.0	1.1	44.4	52.1	1.1	0.0	100	97.6	170
Wealth index quintiles										
Poorest	0.0	0.0	0.1	0.0	97.8	2.1	0.0	100	99.9	1155
Second	0.0	0.0	0.0	0.1	93.0	6.8	0.0	100	99.9	1325
Middle	0.0	0.0	0.2	13.8	79.9	5.4	0.4	100	99.5	1245
Fourth	0.0	0.0	0.4	66.0	32.3	1.1	0.0	100	99.4	1204
Richest	0.4	0.2	0.2	97.2	1.9	0.0	0.0	100	99.1	1039
			:							
Total	0.1	0.0	0.2	33.1	63.1	3.3	0.1	100	93.6	5963

Table CH.10: Solid fuel use by type of stove or fire

Percentage of households using solid fuels for cooking by type of stove or fire, Somalia, 2006

	Perce	ntage of hou	seholds using s	olid fuels for coo	king:	_
	Closed stove with chimney	Open stove or fire with chimney or hood	Open stove or fire with no chimney or hood	Other stove	Total	Number of households using solid fuels for cooking
Zone						
North West	0.0	7.0	92.6	0.2	100	1439
North East	0.1	3.3	96.4	0.0	100	682
Central South	0.0	10.5	89.4	0.0	100	3823
Residence						
Urban	0.0	10.3	89.5	0.1	100	2097
Rural	0	8.0	91.8	0.0	100.0	3847
Education of household head						
None	0.0	8.6	91.1	0.1	100	2314
Koranic	0.0	7.8	92.0	0.1	100	1875
Primary	0.0	10.0	90.0	0.0	100	837
Secondary +	0.1	10.6	89.2	0.0	100	639
Non standard curriculum	0.0	12.0	88.0	0.0	100	166
Wealth index quintiles						
Poorest	0.0	10.1	89.7	0.0	100	1154
Second	0.0	7.3	92.5	0.1	100	1324
Middle	0.0	9.6	90.3	0.1	100	1239
Fourth	0.0	7.7	92.1	0.1	100	1197
Richest	0.0	9.8	90.1	0.0	100	1029
Total	0.0	8.8	91.0	0.1	100	5944

Table CH.11: Availability of insecticide treated nets

Percentage of households with at least one insecticide treated net (ITN), Somalia, 2006

	Percentage of households with at least one mosquito net	Percentage of households with at least one long lasting insecticide treated net (ITN)*	Percentage of households with at least one insecticide treated net (ITN)*	Number of households
Zone				
North West	28.3	7.3	9.1	1455
North East	35.9	7.8	12.6	687
Central South	17.3	12.2	13.2	3827
Residence				
Urban	26.9	14.4	16.4	2113
Rural	19.5	8.3	9.8	3856
Education of household head				
None	16.9	6.7	8.2	2323
Koranic	19.6	10.6	11.6	1878
Primary	30.1	16.1	17.5	840
Secondary +	32.8	15.0	19.1	643
Non standard curriculum	29.9	15.0	15.7	170
Wealth index quintiles				
Poorest	12.7	5.1	5.5	1155
Second	14.8	7.1	8.0	1325
Middle	26.7	12.0	14.0	1245
Fourth	29.7	14.7	17.6	1204
Richest	27.5	14.1	16.4	1039
Total	22.1	10.5	12.2	5969

*MICS indicator 36

Table CH.12: Children sleeping under bednets

Percentage of children aged 0-59 months who slept under an insecticide treated net during the previous night, Somalia, 2006

			Percentage o	f children who:			
-	Slept under a bednet*	Slept under a long lasting insecticide treated net	Slept under an insecticide treated net**	Slept under a pretreated insecticide net	Slept under an untreated net	Did not sleep under a bednet	Number of children aged 0-59 months
Sex							
Male	18.4	9.4	11.5	2.1	6.7	81.4	3275
Female	17.8	9.0	11.3	2.3	6.4	81.9	3030
Region							
North West	24.5	7.5	9.8	2.3	14.1	75.1	1244
North East	31.8	7.3	13.6	6.4	18.0	68.0	666
Central South	14.2	10.0	11.5	1.5	2.7	85.6	4394
Residence							
Urban	25.4	14.6	17.6	2.9	7.5	74.2	2254
Rural	14.1	6.2	7.9	1.8	6.0	85.8	4051
Age							
0-11 months	22.5	11.5	13.6	2.1	8.7	77.3	1326
12-23 months	20.0	10.1	12.9	2.9	6.8	79.5	1086
24-35 months	17.5	8.7	10.4	1.8	6.9	82.1	1264
36-47 months	16.7	8.8	10.7	1.9	5.8	83.3	1307
48-59 months	14.1	7.0	9.4	2.4	4.7	85.6	1322
Wealth index quintiles							
Poorest	7.6	2.2	2.4	0.2	5.1	92.2	1266
Second	11.3	5.8	7.6	1.8	3.7	88.6	1294
Middle	18.8	9.3	12.4	3.2	6.2	80.9	1304
Fourth	27.4	15.0	18.3	3.3	8.8	72.4	1308
Richest	26.1	14.1	16.5	2.4	9.2	73.5	1132
Total	18.1	9.2	11.4	2.2	6.6	81.6	6305

* MICS indicator 38

** MICS indicator 37; MDG indicator 22

Table CH.13: Treatment of children with anti-malarial drugs

Percentage of children aged 0-59 months who were ill with fever in the last two weeks who received anti-malarial drugs, Somalia, 2006

Children with a fever in the last two weeks who were treated with:

					Ant	i-malarials:					Other medi	ations:				
	Had a fever in last two weeks	Number of children aged 0-59 months	SP/ Fansidar	Chloroquine	Amodia- quine	Quinine	Artemis- inin based combin- ations	Other anti- malarial	Any approp- riate anti- malarial drug	Paracet- amol/ Panadol/ Acetamin- ophen	Aspirin	lbuprofen	Other	Don't know	Any appropriate anti-malarial drug within 24 hours of onset of symptoms*	Number of children with fever in last two weeks
Sex Male Female	21.9 21.7	3275 3030	2.2 2.0	7.0 3.9	0.2 0.2	0.5 0.4	1.0 0.6	0.2 0.1	9.7 6.0	4.5 4.9	3.7 3.9	0.2 0.2	0.7 0.3	0.9 0.4	3.1 2.6	717 659
Zone																
North West North Fast	9.4 14 5	1244 666	0.8	1.6 3.3	0.0	0.0	0.8 0	0.0	3.2 8.4	2.6 7 3	9.3	0.0	3.4 D D	4.4 1.8	1.6 4 q	117 96
Central South	26.5	4394	2.2	6.1	0.2	0.4	0.9	0.1	8.4	4.7	3.4	0.2	0.2	0.2	2.8	1163
Residence																
Urban	15.8	2254	4.8	8.3	0.6	1.1	2.0	0.0	14.3	10.0	7.0	0.1	1.1	1.5	7.0	356
Rural Age in months	25.2	4051.2	1.1	4.5	0.0	0.2	0.5	0.2	5.7	2.9	2.7	0.3	0.3	0.4	1.4	1020
0-11	19.8	1326	1.0	2.7	0.5	0.0	0.0	0.2	4.3	3.1	4.3	0.0	0.5	0.8	2.0	262
12-24	23.1	1086	1.1	4.2	0.2	0.2	1.2	0.0	6.7	4.9	4.3	0.1	0.4	1.0	3.1	251
24-35	23.6	1264	2.1	6.1	0.0	0.9	0.7	0.4	9.1	4.0	3.3	0.5	0.0	0.1	2.3	299
36-47	21.5	1307	1.8	7.8	0.4	1.1	1.1	0.0	9.8	3.2	3.5	0.5	1.1	0.9	2.3	281
48-59	21.4	1322	4.3	6.2	0.0	0.0	1.2	0.2	9.2	8.3	3.7	0.0	0.4	0.7	4.6	283
Mother's Education																
None	22.6	3924	2.0	4.9	0.1	0.6	0.7	0.1	7.1	3.7	3.6	0.2	0.4	0.6	2.4	888
Koranic	25.3	1151	2.9	6.6	0.5	0.0	0.8	0.0	9.3	5.2	3.9	0.5	0.0	0.6	2.6	291
Primary or above	15.6	1015.0	1.1	5.3	0.0	0.3	2.1	0.0	8.4	8.6	5.1	0.0	1.9	1.4	5.6	158
Non standard curriculum Wealth index quintiles	17.7	193.8	3.4	10.4	0.0	0.0	0.0	0.0	10.4	9.7	2.7	0.0	0.0	1.7	3.5	34
Poorest	27.3	1266	0.3	3.5	0.0	0.0	0.0	0.3	3.8	1.4	0.8	0.4	0.4	0.7	0.3	346
Second	26.0	1294	2.6	4.4	0.0	0.7	1.4	0.4	7.2	4.2	2.8	0.0	0.0	0.3	1.9	336
Middle	25.2	1304	1.2	4.9	0.0	0.0	0.0	0.0	6.1	3.5	3.6	0.4	0.0	0.7	1.8	328
Fourth	16.3	1308	2.5	10.9	0.7	1.6	2.7	0.0	16.0	9.5	8.2	0.1	1.6	0.6	6.0	214
Richest	13.5	1132	6.3	5.9	0.8	0.3	0.8	0.0	11.6	9.1	7.0	0.0	1.2	1.4	8.7	152
Total	21.8	6305	2.1	5.5	0.2	0.4	0.8	0.2	7.9	4.7	3.8	0.2	0.5	0.7	2.9	1376
* MICS indicator 39; MDG	indicator 22															

Total includes 5 cildren missing information on mother's education who are not shown separately. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

Table CH.14: Intermittent preventive treatment for malaria

Percentage of women aged 15-49 years who gave birth during the two years preceding the survey who received intermittent preventive therapy (IPT) for malaria during pregnancy, Somalia, 2006

		Percer	ntage of pregn	ant women who	took:		_ Number
	Medicine to prevent malaria during pregnancy	SP/ Fansidar only one time	SP/ Fansidar two or more times*	Chloroquine	Other medicines	Don't know	of women who gave birth in prior two years
Zone							
North West	4.9	1.1	0.5	1.9	0.2	1.2	496
North East	3.9	0.8	1.0	1.4	0.0	0.5	269
Central South	7.0	1.4	1.1	3.5	0.5	0.6	1560
Residence							
Urban	7.2	1.3	1.4	3.6	0.4	0.5	852
Rural	5.7	1.2	0.7	2.5	0.4	0.8	1472
Mother's Education							
None	5.2	1.0	0.7	2.6	0.4	0.6	1460
Koranic	8.5	1.7	1.2	3.2	1.0	1.3	369
Primary	7.8	2.7	1.4	3.2	0.0	0.6	314
Secondary +	6.8	0.0	2.8	3.9	0.0	0.0	64
Non standard curriculum	9.1	0.0	1.6	5.8	0.0	0.0	75
Wealth index quintiles							
Poorest	4.8	0.5	1.2	1.5	0.3	1.2	435
Second	6.4	1.6	0.5	3.5	0.6	0.4	468
Middle	5.8	1.7	0.9	2.5	0.0	0.5	483
Fourth	8.0	1.4	1.3	3.5	0.7	1.4	508
Richest	5.8	1.1	0.8	3.3	0.3	0.0	430
Total	6.2	1.3	0.9	2.9	0.4	0.7	2325

* MICS indicator 40

Total includes 43 women missing information on mother's education who are not shown separately.

Table CH.14A: Pregnant women sleeping under bednets

Percentage of pregnant women who slept under a bednet regularly during their last pregnancy, Somalia, 2006

	Slept under a bednet	Number of women who gave birth in two years preceding survey
Zone		
North West	23.3	496
North East	30.4	269
Central South	12.8	1560
Residence		
Urban	20.7	852
Rural	15.0	1472
Age		
15-19	17.1	240
20-24	20.0	630
25-29	17.4	631
30-34	15.4	391
35-39	11.7	279
40-44	17.5	138
45-49	(*)	16
Education		
None	13.4	1460
Koranic	23.4	369
Primary	27.6	314
Secondary +	20.9	64
Non Standard Curriculum	16.2	75
Wealth index quintiles		
Poorest	8.2	435
Second	14.9	468
Middle	19.3	483
Fourth	21.4	508
Richest	20.9	430
Total	17.1	2325

An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

Table CH.15: Knowledge of symptoms relating to malaria

Percentage of mothers/caretakers of children aged 0-59 months by knowledge of types of symptoms of malaria, Somalia, 2006

			R	eported sym	ptoms of mala	aria			Number of
	Fever/ sweats	Headaches	Chills/ shivers	Neckache	Weakness/ tiredness	Loss of appetite	Bitterness in the mouth	Vomiting/ nausea	mothers/ caretakers of children aged 0-59 months
Zone									
North West	72.9	37.4	41.0	23.2	20.1	22.2	29.8	41.4	1244
North East	73.8	32.5	22.7	9.3	15.0	21.5	32.2	56.9	666
Central South	63.0	40.2	40.8	27.7	32.0	31.0	37.8	47.4	4394
Residence									
Urban	61.9	38.1	38.5	21.5	22.1	21.6	31.1	43.1	2254
Rural	68.4	39.2	39.1	26.8	31.0	31.9	38.2	49.5	4051
Mother's education									
None	67.1	39.7	40.8	26.8	29.9	30.0	36.8	49.0	3924
Koranic	62.3	37.4	35.0	22.6	25.7	27.4	35.6	41.9	1151
Primary	65.5	36.5	37.0	20.0	22.6	21.4	30.6	46.0	821
Secondary +	69.1	39.7	36.5	24.5	25.6	29.1	37.9	50.7	194
Non standard curriculum	66.6	37.5	35.4	20.2	23.0	26.3	31.7	45.5	194
Wealth index quint	iles								
Poorest	68.8	37.2	43.4	30.5	34.4	33.3	37.4	47.5	1266
Second	67.0	40.6	36.6	26.8	30.0	32.7	39.7	49.5	1294
Middle	67.4	41.1	40.5	25.6	30.4	28.9	37.3	48.8	1304
Fourth	68.7	39.8	37.9	23.9	26.5	27.5	36.3	48.0	1308
Richest	57.4	34.8	35.9	16.6	16.5	17.6	26.2	41.7	1132
Total	66.1	38.8	38.9	24.9	27.8	28.2	35.6	47.2	6305

Total includes 21 children missing information on mother's education who are not shown separately.

. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

	vaccination
:	polio
	towards
	attitudes
	and
•	Knowledge
	CH. 16:
:	Table

Percentage of mothers/caretakers who had heard of polio and agree to give their child repeat vaccinations and breakdown of percentage of mother's/caretakers reporting who the key decision maker is over whether to vaccinate the child. Somalia, 2006

	Heard of	Number of	Agree to repeat	Ever refuse child	ed to vaccina against poli	te their o	Who makes	the decisior chi	i in the home dren	to vaccinate	Number of
	polio	caretakers/	vacciliations or polio						Father		mothers/ caretakers who
						Several	Father	Mother	and	Grand	have heard of
			I	Never	Once	times	only	only	mother	parents	polio
Zone											
North West	88.9	1244	82.8	80.1	7.0	9.4	27.4	41.7	23.3	3.0	1106
North East	82.9	666	59.5	65.5	9.6	23.8	40.0	27.4	28.3	2.5	552
Central South	80.2	4394	90.8	87.1	5.6	6.0	53.4	18.0	19.2	4.2	3522
Residence											
Urban	84.4	2254	86.1	82.9	6.0	9.5	38.9	34.3	18.9	4.4	1902
Rural	80.9	4051	85.6	83.6	6.5	8.1	50.1	18.8	22.4	3.3	3279
Mother's education											
None	82.7	3924	86.1	83.3	6.8	8.2	47.2	23.2	20.4	4.3	3246
Koranic	77.1	1151	87.1	82.7	4.9	10.7	47.9	21.4	21.8	4.2	888
Primary	85.9	821	84.0	83.4	5.2	9.3	39.2	31.0	24.5	1.2	705
Secondary +	82.8	194	85.6	82.7	7.3	7.2	44.6	33.4	19.6	0.7	161
Non standard curriculum	84.7	194	80.7	84.4	8.3	5.4	42.8	28.2	20.5	3.6	164
Wealth index quintiles											
Poorest	78.6	1266	85.3	86.3	5.2	6.3	54.3	17.1	21.6	3.1	966
Second	83.9	1294	88.0	86.2	6.4	5.9	56.6	14.4	20.2	3.7	1086
Middle	81.1	1304	86.9	81.0	7.5	10.2	45.8	20.4	22.9	3.7	1058
Fourth	84.7	1308	84.7	80.8	7.8	9.7	38.2	35.5	19.7	3.6	1107
Richest	82.5	1132	83.8	82.4	4.4	11.2	33.8	35.8	21.6	4.7	934
	0.00	1000	C L C	000	0	0	7 C 7		0	r c	ZO Z
Total	82.2	6305	85.8	83.3	6.3	8.6	46.1	24.3	21.2	3./	5181
Total includes 18 children mis	ssing information	n on mother's edu	ucation who are not s	shown separat	ely.						

Table EN.1: Use of Percent distribution	of househo	vater sou	ation acc	ording to	main sou	rce of drii	ıking wat	er and pe	rcentage o	of househr	old popula	tion usin	g improve	ed drinkir	ig water s	ources, Si	omalia, 20	200		
							M	ain source	of drinki	ng water										
			-	mproved	sources							Unimpr	oved sou	rces						
	Piped into dwelling	Piped into yard/ plot	Public tap/ stand- pipe	Tube- well/ bore- hole	Pro- tected well	Pro- tected spring	Rain- water	Bottled water ¹	Unpro- tected well	Unpro- tected spring	Berkad	Bali	Tanker truck	Cart with tank/ drum	Surface water	Bottled water ¹	Other	Total	Improved source of drinking water*	Number of household members
Zone																				
North West	15.0	2.1	18.4	3.0	1.6	0.2	0.3	0.0	11.8	3.5	30.2	2.1	10.1	0.9	0.1	0.0	0.8	100	40.5	8616
North East	8.8	2.3	6.1	0.7	4.9	1.5	0.7	0.0	7.9	2.9	43.2	0.2	13.6	2.5	4.6	0.1	0.0	100	25.0	3535
Central South Residence	11.4	3.3	4.2	1.7	4.9	0.0	0.0	0.1	22.2	0.5	5.5	3.2	0.7	8.7	28.4	0.2	4.7	100	25.5	21809
Urban	31.1	7.7	14.1	1.7	3.6	0.0	0.1	0.1	9.9	0.1	4.7	0.0	7.6	14.2	2.8	0.3	1.8	100	58.4	12945
Rural	0.3	0.0	4.2	2.1	4.3	0.3	0.2	0.0	23.0	2.4	22.5	4.2	2.5	1.1	28.6	0.0	4.1	100	11.3	21014
Education of household head																				
None	7.6	1.9	9.3	2.2	2.8	0.1	0.1	0.0	17.2	2.2	22.1	4.7	5.2	4.9	15.9	0.0	3.4	100	24.0	12638
Koranic	6.1	1.8	4.8	1.0	4.4	0.1	0.2	0.0	25.1	0.7	11.0	1.8	1.8	5.9	31.4	0.0	3.8	100	18.5	10443
Primary	14.9	2.5	8.9	2.3	6.8	0.5	0.0	0.2	14.6	2.5	12.9	1.0	6.2	7.3	16.1	0.6	2.4	100	36.1	4996
Secondary +	36.1	9.0	10.3	2.2	3.8	0.3	0.4	0.0	8.9	0.5	9.3	0.4	6.4	6.8	2.3	0.0	2.7	100	62.1	4231
Non standard curriculum	15.6	3.2	6.8	1.5	3.4	0.3	0.0	0.0	14.7	0.7	16.7	0.2	3.5	15.2	14.5	0.0	2.5	100	30.9	1007
Don't know/ Missing	8.1	4.7	14.6	6.7	2.7	0.0	0.0	0.0	13.2	2.8	27.3	3.9	8.5	2.7	4.4	0.	0.0	100	36.8	644
Wealth index quintiles																				
Poorest	0.0	0.0	0.3	0.3	2.7	0.0	0.0	0.0	35.3	1.3	22.8	7.1	0.4	0.0	27.6	0.0	1.9	100	3.3	6790
Second	0.0	0.0	3.6	2.1	4.8	0.1	0.1	0.0	23.3	2.2	17.5	4.2	2.1	0.0	35.0	0.1	4.4	100	10.7	6795
Middle	0.3	0.1	10.7	2.7	6.0	0.3	0.1	0.0	18.3	1.8	19.8	1.5	3.3	3.7	25.6	0.0	5.8	100	20.1	6789
Fourth	7.7	2.8	17.5	3.5	5.8	0.5	0.3	0.0	11.6	2.2	14.7	0.1	8.4	15.1	5.5	0.5	3.7	100	38.1	6794
Richest	52.1	11.7	7.9	0.9	1.0	0.1	0.3	0.2	1.7	0.2	3.6	0.0	8.1	11.6	0.0	0.0	0.3	100	74.2	6792
Total	12.0	2.9	8.0	1.9	4.0	0.2	0.1	0.0	18.0	1.5	15.7	2.6	4.5	6.1	18.8	0.1	3.2	100	29.3	33959
* MICS indicator 1	1; MDG ind	licator 30	-																	
¹ For households us. as improved.	ing bottled	water as	s the mair	1 source (of drinkin	g water, t	he source	e used for	other purj	ooses suc	n as cooki	ng and h	andwashi	ing is use	ed to dete	rmine whe	other to cl	lassify the	e source	

Table EN.2: Household water treatmen	Ħ	lation according to drinking water trea
	Table EN.2: Household water treatment	Percent distribution of household nonula

ing water treatment method used in the household, and percentage of household population that applied an appropriate water treatment 5 ni fillinin g Percent distribution of household population method, Somalia, 2006

			Water treatr	nent methoc	d used in th	ie household			All drinki sour	ng water ces	Improved drin sourc	king water es	Unimprovec water so	drinking urces
			Add	Strain	Use	Solar	Let it stand		Appropriate water	Number of	Appropriate water	Number of	Appropriate water	Number of
	None	Boil	bleach/ chlorine	through a cloth	water filter	dıs- infection	and settle	Other	treatment method*	household members	treatment method	household members	treatment method	household members
Zone														
North West	82.9	8.9	3.1	1.2	1.4	0.2	2.6	2.9	11.7	8616	16.0	3470	8.8	5145
North East	81.9	9.0	0.0	1.9	2.2	0.1	1.6	1.1	15.6	3535	15.0	860	15.8	2675
Central South	62.0	7.6	17.5	5.4	6.1	3.4	13.3	0.1	27.2	21809	53.1	5553	18.3	16256
Residence														
Urban	55.7	11.0	30.5	3.1	5.3	1.0	4.7	0.4	40.4	12945	45.4	7534	33.5	5411
Rural	7.77	5.5	1.5	4.5	3.6	2.7	11.3	1.4	10.3	15993	9.7	2156	10.4	13836
Nomadic	78.2	8.9	1.9	4.5	5.2	4.0	15.3	0.8	12.2	5022	2.2	193	12.6	4828
Education of ho	usehold he	ad												
None	74.7	7.5	9.3	3.4	4.8	2.8	7.7	1.2	18.4	12638	32.0	3021	14.1	9617
Koranic	71.3	6.9	8.0	4.9	5.5	3.1	12.8	0.1	17.9	10443	33.3	1916	14.5	8527
Primary	63.6	9.2	15.8	5.6	2.7	0.4	10.8	1.0	25.1	4996	36.8	1790	18.5	3206
Secondary +	59.4	10.8	28.0	2.0	3.6	0.6	4.5	1.0	36.5	4231	44.1	2608	24.1	1622
Non standard curriculum	52.0	11.8	22.5	2.9	3.5	2.4	11.2	4.7	35.1	1007	46.7	311	29.9	696
Don't know/														
Missing	73.9	7.6	10.6	1.0	3.1	2.9	5.4	1.8	22.5	644	30.4	237	17.9	407
Wealth index qu	uintiles													
Poorest	88.5	3.0	0.4	1.4	1.6	2.5	6.1	1.3	5.3	0629	7.8	223	5.2	6567
Second	72.3	7.2	2.1	6.1	6.3	5.0	16.4	0.7	14.5	6795	9.4	721	15.1	6074
Middle	72.0	8.3	4.3	4.2	5.0	2.1	14.1	1.3	15.3	6789	17.1	1360	14.8	5429
Fourth	63.6	10.9	18.8	5.3	5.5	1.0	7.1	0.9	28.6	6794	34.3	2574	25.0	4220
Richest	50.5	11.1	37.5	2.8	4.1	0.7	3.3	0.5	46.7	6792	48.6	5006	41.4	1785
			0		1						0.00		0	
Total	69.4	8.1	12.6	4.0	4.5	2.2	9.4	0.9	22.1	33959	36.8	9884	16.0	24076
* MICS indicato	vr 13 (Drink	cing water	r is considere	id treated if	one the fol	owing metho	nds of treat.	ment are II	sed hoiling add	ding bleach or chli	orine: using a Wa	ter filter: or usinc	a solar disinfectio	(u

Table EN.2B: Household water treatment

Percent distribution of household population according to treatment method used in the household to prevent contamination while handling water, Somalia, 2006

	_		Water	treatment n	nethod used	in the housel	nold			
		None	Wash hands	Store in clean container with cover	Use cup with long handle to remove water from container	Keep animals away from container	Other	Don't know	Appropriate method for preventing contamination of water	Number of household members
Zone										
North Wes	t	29.8	12.0	44.1	10.9	7.2	0.7	0.1	49.7	8616
North East		51.1	8.1	31.6	3.9	5.6	0.5	0.1	34.3	3535
Central Sou	ıth	36.0	15.0	41.6	12.1	13.7	0.0	0.0	48.2	21809
Residence										
Urban		18.4	15.2	33.5	12.5	5.0	0.0	0.1	40.1	12945
Rural		46.8	12.4	45.9	9.9	15.1	0.4	0.1	51.5	21014
Education	of househo	ld head								
None		42.9	13.9	40.2	10.9	12.6	0.3	0.1	45.6	12638
Koranic		41.4	13.3	43.1	11.1	13.5	0.1	0.0	49.7	10443
Primary		23.5	14.7	51.4	9.6	9.6	0.5	0.0	57.1	4996
Secondary	+	16.5	11.2	29.3	12.0	3.7	0.3	0.2	33.9	4231
Non curriculum	standard	32.0	15.9	36.8	12.3	9.6	0.0	0.0	48.0	1007
Don't Missing	know/	43.7	10.8	35.7	9.0	12.0	0.0	0.0	42.8	644
Wealth ind	ex quintile	s								
Poorest		59.9	8.8	36.3	6.5	13.3	0.1	0.0	39.8	6790
Second		48.1	14.5	46.3	10.3	17.8	0.1	0.1	51.3	6795
Middle		37.2	14.6	53.2	11.8	14.7	0.1	0.0	61.1	6789
Fourth		26.6	20.3	50.9	17.0	8.5	0.9	0.2	58.7	6794
Richest		8.3	9.3	19.4	8.9	1.8	0.0	0.1	24.7	6792
Total		36.0	13.5	41.2	10.9	11.2	0.2	0.1	47.1	33959

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 Table EN.3: Time to source of water

 Percent distribution of households according to time to go to source of drinking water, get water and return, and mean time to source of drinking water.

		-	rime to sourc	se of drinkin	g water					Rei	iability of sup	ply			
			15	30											
			minutes	minutes				Mean time		Occasional					
		Less	to less	to less	-			to source	Almost	problems					
	vvater on premises	than 15 minutes	than 30 minutes	tnan T hour	I nour or more	uon t know	Total	of drinking water*	problems	but less than weekly	vveekiy problems	problems	supply	Total	Number of households
Zone															
North West	17.2	13.7	13.0	23.7	31.3	0.9	100.0	57.2	30.7	13.9	9.1	18.2	27.9	100.0	1400
North East	16.9	12.4	13.1	21.9	29.9	5.5	100.0	57.5	39.7	23.2	6.7	10.8	19.7	100.0	1429
Central South	13.0	16.2	16.3	18.5	32.5	3.4	100.0	81.5	34.7	19.7	7.4	14.7	23.5	100.0	3107
Residence															
Urban	38.4	16.1	11.6	14.0	15.0	4.5	100.0	37.9	56.1	23.1	7.2	10.0	3.7	100.0	2208
Rural	1.0	13.9	16.6	24.5	41.4	2.6	100.0	81.5	22.4	16.9	7.9	17.3	35.4	100.0	3728
Education of househ	old head														
None	9.2	17.1	15.5	22.5	32.2	3.3	100.0	68.1	30.7	18.6	7.9	16.4	26.2	100.0	2359
Koranic	8.1	12.0	16.4	21.6	37.9	3.8	100.0	87.4	27.9	18.3	8.9	15.8	28.9	100.0	1755
Primary	18.3	15.2	15.6	20.2	28.5	2.0	100.0	53.0	41.5	21.1	6.7	12.9	17.8	100.0	816
Secondary +	46.7	11.4	8.1	11.5	19.3	2.7	100.0	49.3	58.6	17.5	5.3	7.2	11.5	100.0	698
Non standard	18.6	19.8	11 4	17 4	203	с С	100.0	53 7	7 25	5 56	لد د	17.2	19 F	100.0	163
Don't know/	2	5	-		2	5	2			2	0	i	2	2	2
Missing	13.2	15.3	13.2	25.0	24.3	9.0	100.0	58.5	38.9	31.3	6.3	11.1	12.5	100.0	144
Wealth index quintil	es														
Poorest	0.1	12.1	12.6	21.8	49.4	3.8	100.0	99.7	16.2	17.6	10.7	20.5	34.8	100.0	1044
Second	0.1	13.9	15.6	23.1	46.2	1.2	100.0	88.9	19.7	14.4	6.8	18.5	40.4	100.0	1236
Middle	0.9	17.1	19.4	29.8	28.6	4.1	100.0	58.1	31.0	18.9	8.2	13.7	28.1	100.0	1230
Fourth	12.1	20.5	19.0	21.0	22.2	4.8	100.0	42.9	40.0	24.5	8.6	14.7	12.1	100.0	1296
Richest	63.4	8.8	5.8	6.1	13.1	2.6	100.0	46.6	67.4	20.0	3.9	5.6	3.1	100.0	1130
Total	14.9	14.7	14.7	20.6	31.6	3.3	100.0	70.2	34.9	19.2	7.6	14.6	23.6	100.0	5936
* The mean time to s	ource of drin	king water is	s calculated t	based on tho	ise househd	olds that do	n not have v	vater on the pre	mises.						
Table EN.4: Person collecting water

Percent distribution of households according to the person collecting drinking water used in the household, Somalia, 2006

		Person o	collecting drinking	ı water		
	Adulturance	A duit man	Female child	Male child	Tatal	Number of
	Aduit woman	Adult man	under age 15	under age 15	Total	nousenoids
Zone						
North West	64.4	25.5	5.2	3.4	100	1224
North East	61.5	29.8	4.2	3.2	100	584
Central South	68.0	25.7	3.9	1.6	100	3307
Residence						
Urban	50.7	40.9	4.6	2.2	100	1301
Rural	71.7	21.1	4.2	2.2	100	3814
Education of household head						
None	66.4	25.1	5.1	2.3	100	2108
Koranic	70.3	23.8	3.2	1.8	100	1736
Primary	64.7	26.7	4.7	3.3	100	692
Secondary +	52.7	38.8	4.2	2.2	100	343
Non standard curriculum	60.5	34.4	3.7	0.9	100	138
Don't know/Missing	64.9	29.0	3.6	2.5	100	98
Wealth index quintiles						
Poorest	69.0	23.2	4.5	2.6	100	1154
Second	75.1	18.0	3.9	1.8	100	1324
Middle	71.7	20.8	4.6	2.3	100	1231
Fourth	57.1	34.2	4.9	2.7	100	1048
Richest	34.5	60.5	1.9	0.8	100	358
Total	66.4	26.1	4.3	2.2	100	5115

Table EN.5: Use of sanitary means of excreta disposal

Percent distribution of household population according to type of toilet facility used by the household, and the percentage of household population using sanitary means of excreta disposal, Somalia, 2006

			Type of toilet facility used by household				Percentage					
		Improve	d sanitati	on facility		Unim	proved san	itation fa	cility		0f population	
	Flush	n/pour flus	h to:	_	Pit	Flush/ pour flush	latrine without		No		using sanitary	
	Piped sewer system	Septic tank	Pit latrine	Ventilated improved pit latrine	latrine with slab	to some- where else	slab/ open pit	Other	facilities / bush / field	Total	means of excreta disposal*	Number of household members
Zone												
North West	0.9	0.6	22.8	1.1	14.5	0.2	15.2	0.1	44.2	100	40.0	8616
North East	3.6	0.9	25.6	7.3	6.3	0.0	6.4	0.3	49.4	100	43.7	3535
Central South	11.5	0.5	18.5	0.1	4.7	0.0	6.1	0.2	58.3	100	35.3	21809
Residence												
Urban	20.6	1.4	41.3	1.6	12.5	0.2	14.4	0.1	7.6	100	77.5	12945
Rural	0.2	0.0	7.5	0.7	4.1	0.0	4.8	0.2	82.2	100	12.6	21014
Education of household head												
None	4.1	0.2	16.3	0.6	7.9	0.1	7.0	0.2	63.3	100	29.1	12638
Koranic	6.4	0.3	14.1	1.1	3.4	0.0	4.9	0.3	69.4	100	25.3	10443
Primary	9.4	0.6	28.0	1.2	10.6	0.3	12.0	0.1	37.5	100	49.9	4996
Secondary +	19.8	1.7	38.2	1.8	12.9	0.0	15.3	0.0	10.2	100	74.4	4231
Non standard curriculum	17.5	1.1	25.4	1.9	3.6	0.0	8.5	0.0	41.6	100	49.6	1007
Don't know/ Missing	6.6	1.9	17.0	3.4	5.2	0.0	19.9	0.0	44.8	100	34.0	644
Wealth index quintiles												
Poorest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100	0.0	6790
Second	0.0	0.0	0.6	0.0	0.0	0.0	0.5	0.2	98.4	100	0.6	6795
Middle	0.7	0.4	18.7	0.1	6.0	0.1	12.5	0.6	60.8	100	25.9	6789
Fourth	4.9	0.6	48.4	3.0	17.0	0.1	15.9	0.1	9.5	100	74.0	6794
Richest	34.5	1.8	34.0	2.3	13.6	0.3	13.2	0.0	0.2	100	86.2	6792
Total	8.0	0.6	20.4	1.1	7.3	0.1	8.4	0.2	53.8	100	37.3	33959

* MICS indicator 12; MDG indicator 31

Table EN.6: Disposal of child's faeces

Percent distribution of children aged 0-2 years according to place of disposal of child's faeces, and the percentage of children aged 0-2 years whose stools are disposed of safely, Somalia, 2006

			Place	e of disposal	of child's	faeces				Proportion	Neuroleau
	Child used toilet	Put/rinsed into toilet or latrine	Put/rinsed into drain or ditch	Thrown into garbage	Buried	Left in the open	Other	Don't know	Total	of children whose stools are disposed of safely*	Number of children aged 0-2 years
Zone											
North West	1.4	49.0	4.3	11.9	7.4	21.4	0.2	0.8	3.6	50.4	726
North East	0.3	37.1	5.9	29.9	11.3	10.7	0.0	0.0	4.9	37.4	394
Central South	0.2	29.7	3.7	32.4	9.7	19.9	0.4	0.1	3.9	29.9	2570
Residence											
Urban	1.1	74.0	7.1	7.2	2.7	3.2	0.1	0.4	4.2	75.1	1320
Rural	0.1	12.2	2.3	39.7	13.2	28.1	0.4	0.2	3.7	12.2	2369
Mother's education											
None	0.5	24.4	3.6	33.3	10.4	23.3	0.3	0.3	4.0	24.9	2289
Koranic	0.2	34.7	4.6	26.8	11.8	17.1	0.7	0.2	3.9	34.9	657
Primary	0.5	64.4	4.6	14.6	4.1	8.5	0.3	0.0	3.0	64.9	501
Secondary +	1.6	75.6	6.1	4.0	1.4	3.5	0.0	0.8	7.0	77.2	115
Non standard curriculum	0.0	55.9	4.4	14.0	7.2	13.6	0.0	1.0	3.8	55.9	118
Wealth index quintile	S										
Poorest	0.1	0.1	1.4	36.3	13.6	43.3	0.3	0.2	4.6	0.2	706
Second	0.0	1.2	1.3	50.8	14.3	27.2	0.9	0.0	4.4	1.2	756
Middle	0.5	18.9	4.1	38.5	14	20.8	0.3	0.7	2.3	19.4	783
Fourth	0.8	68.1	6.1	11.4	4.3	4.4	0.0	0.0	4.8	68.8	783
Richest	0.9	86.7	7.3	0.7	0.3	0.0	0.1	0.5	3.4	87.7	661
Total	0.4	34.3	4.0	28.1	9.5	19.2	0.3	0.3	3.9	34.7	3690

* MICS indicator 14

Total includes 10 children missing information on mother's education who are not shown separately.

Table EN.7: Use of improved water sources and improved sanitation

Percentage of household population using both improved drinking water sources and sanitary means of excreta disposal, Somalia, 2006

	Perce	ntage of household popula	tion:	
	Using improved sources of drinking water*	Using sanitary means of excreta disposal**	Using improved sources of drinking water and using sanitary means of excreta disposal***	Number of household members
Zone				
North West	40.5	40.0	23.9	8616
North East	25.0	43.7	16.3	3535
Central South	25.5	35.3	19.7	21809
Residence				
Urban	58.4	77.5	47.1	12945
Rural	11.3	12.6	4.0	21014
Education of household head				
None	24.0	29.1	14.5	12638
Koranic	18.5	25.3	11.5	10443
Primary	36.1	49.9	27.1	4996
Secondary +	62.1	74.4	52.1	4231
Non standard curriculum	30.9	49.6	22.5	1007
Don't know/Missing	36.8	34.0	18.3	644
Wealth index quintiles				
Poorest	3.3	0.0	0.0	6790
Second	10.7	0.6	0.0	6795
Middle	20.1	25.9	8.6	6789
Fourth	38.1	74.0	29.3	6794
Richest	74.2	86.2	64.2	6792
Total	29.3	37.3	20.4	33959

* MICS indicator 11; MDG indicator 30

** MICS indicator 12; MDG indicator 31

Table EN.8: Handwashing

Percent distribution of households according to whether soap is used to wash hands in various circumstances, Somalia, 2006

	Percen	tage of hou	isehold respor ha	ndents repor nds with soa	ting that mer ap:	nber(s) was	h their	
_	Before eating	Before feeding babies	Before defecation	After cleaning babies bottoms	Before cooking	After Eating	For any of these reasons*	Number of households
Zone								
North West	56.2	55.4	71.4	64.5	47.4	58.6	77.1	1455
North East	63.9	62.3	74.2	73.4	46.6	67.7	83.5	687
Central South	27.5	26.1	34.3	33.1	16.0	25.7	41.3	3827
Residence								
Urban	47.2	47.2	65.3	62.8	38.8	47.8	70.8	2113
Rural	34.1	32.0	38.4	35.9	20.8	33.5	46.2	3856
Education of household head								
None	37.4	35.0	46.5	42.7	27.5	39.3	54.7	2322
Koranic	32.4	31.4	37.4	35.2	17.3	28.2	44.2	1878
Primary	40.7	40.4	53.2	52.8	30.3	43.0	58.6	840
Secondary +	57.7	57.9	74.0	70.8	48.3	58.7	78.6	643
Non standard curriculum	42.0	40.0	52.0	53.8	31.0	42.5	59.8	170
Don't know/Missing	42.5	43.1	59.2	58.2	34.8	40.1	66.2	114
Wealth index quintiles								
Poorest	26.5	24.9	29.2	25.7	14.2	24.8	37.0	1155
Second	33.0	30.8	36.8	33.9	17.9	29.5	44.1	1325
Middle	34.3	32.8	40.5	38.9	22.5	35.7	49.0	1245
Fourth	49.6	48.1	63.1	60.4	38.5	51.9	69.6	1204
Richest	52.2	53.0	74.3	72.5	45.8	53.2	78.4	1039
Total	38.7	37.4	47.9	45.4	27.2	38.5	54.9	5969

Table FE.1: Current Fertility

Age specific and total fertility rate for the three years preceding the survey, Somalia 2006

	Resid	lence	
Age group	Urban	Rural	Total
15-19	102	140	123
20-24	253	301	281
25-29	309	304	306
30-34	258	265	262
35-39	154	208	189
40-44	78	150	123
45-49	50	49	49
TFR	6.0	7.1	6.7

Note: Age-specific fertility rates are expressed per 1,000 women.

TFR: Total fertility rate for ages 15-49, expressed per woman.

Table FE.2: Fertility by background characteristics

Total fertility rates for the three year period preceding the survey by background characteristics, Somalia, 2006

	Total fertility rate
Zone	
North West	5.9
North East	6.2
Central South	7.1
Residence	7.1
Urban	6.0
Rural	0.0
Education of woman	7.1
None	7.0
Koranic	7.0
Primary+	0.0
Non standard curriculum	b. I
Wealth index quintiles	5.8
Poorest 60%	7.0
Richest 40%	7.0
	0.2
Total	6.7

Number of years preceding the survey Mother's age at 0-2 3-5 6-8 9-11 12-14 birth 15-19 20-24 25-29 30-34 35-39 40-44 45-49

Table FE.3: Fertility Trends

Age specific fertility rates for three-year periods preceding the survey, by mother's age at the time of the birth, Somalia 2006

Table RH.1: Use of contraception	J A vears current	-hv marrier	l or in min	n who are usir	na (nr whnse	nartner is u	isina) a contra	arentive met	hod Somalia	2006		
	N o t						Periodic		Any			
	using any method	liid	IUD	Injections	Condom	LAM	abstin- ence	With- drawal	modern method	Any traditional method ¹	Any method*	Number of currently married women
Zone												
North West	74.4	3.1	0.3	[0.0	18.5	14	1.0	4.6	21.0	25.6	943
North East	88 1	0 1	U U	UU		118	UU	0.0	1 0	118	119	2.5 790
Central South	88.4	0.7				111	0.0	0.0		11.3	9.11	7985
Residence		1	5	0	0.00	-	-	-	0	2	-	0000
Urban	83 1	71	0.7	ЛA	0 1	13.2	с U	C U	3 0	13 9	1F G	1551
Rural	00 86.6		7.0 U U		- 0 U	יט.ב 12 ק	0.0	0.0 U 2	0.0	13.2	13.4	7866
Age	0.000	-	5	0	0	0.1	r. D	4.0	1	1.0	-	0007
15-19	92.9	0.0	0.0	0.0	0.0	6.8	0.0	0.0	0.0	7.1	7.1	419
20-24	85.4	0.5	0.0	0.0	0.0	13.5	0.3	0.3	0.5	14.1	14.6	879
25-29	83.4	1.0	0.0	0.4	0.0	14.7	0.3	0.2	1.4	15.2	16.6	980
30-34	83.1	0.8	0.0	0.3	0.0	14.8	0.8	0.1	1.1	15.8	16.9	717
35-39	85.7	0.8	0.3	0.6	0.2	11.6	0.6	0.2	1.9	12.4	14.3	686
40-44	84.5	1.6	0.0	0.0	0.0	12.9	0.2	0.6	1.6	13.9	15.5	493
45-49 Number of living children	88.3	1.3	0.4	0.0	0.0	9.1	0.0	0.8	1.8	10.0	11.7	244
0	98.8	0.2	0.0	0.0	0.0	0.7	0.0	0.0	0.2	0.0	1.2	418
		Ċ				, ,					- - -	
2	87.9	U.4	n.n	U.Z	0.0	7.11	D.Z	N.Z	0.D	G.I.I	17.1	080
1 0	83.5	1.1	0.0	0.0	0.0	14.1	0.8	0.4	1.1	15.3	16.5	715
- C	85.2	1.0	0.0	0.6	0.0	12.3	0.3	0.4	1.6	13.2	14.8	676
4 L	82.6	0.9	0.2	0.0	0.0	15.8	0.4	0.2	1.1	16.3	17.4	603
Ω	82.7	1.2	0.2	0.2	0.0	15.3	0.4	0.0	1.6	15.7	17.3	474
0+ F 4 i	82.5	0.8	0.1	0.5	0.1	15.2	0.3	0.4	1.5	15.9	17.5	934
None	86.4	0.7	0.0	0.2	0.0	11.9	0.5	0.3	0.9	12.7	13.6	2838
Nordriile	83.5	0.3	0.0	0.0	0.0	15.7	0.2	0.4	0.3	16.2	16.5	677
Primary C	84.3	1.4	0.0	0.8	0.0	13.5	0.0	0.0	2.1	13.5	15.7	564
Secondary +	77.4	4.9	1.5	0.0	0.9	14.5	0.0	0.0	7.3	15.3	22.6	133
Non Standard Curriculum	86.0	1.0	0.8	0.0	0.0	12.2	0.0	0.0	1.8	12.2	14.0	124
Uon't know/missing Wealth index quintiles	87.4	0.0	0.0	0.0	0.0	11.4	0.0	1.2	0.0	12.6	12.6	81
Poorest	00	, C				, ,	6	Ċ	Ċ	C 7	C 7	0L1
Second	00.1		0.U	0.U	0.U	0.11	0.1		U. I	0.11	- I. G	100
Middle	86.2	0.1	0.0	0.1	0.0	12.3	0.9	0.5	0.2	13.6	13.8	977
	86.2	0.2	0.0	0.0	0.0	13.1	0.2	0.2	0.2	13.6	13.8	606
ruului	85.0	1.7	0.0	0.1	0.0	12.8	0.3	0.1	1.8	13.2	15.0	882
Richest	81.2	2.2	0.4	1.1	0.2	14.2	0.3	0.3	3.9	14.9	18.8	797
Total	85.4	0.8	0.1	0.2	0.0	12.8	0.4	0.3	1.2	13.4	14.6	4417
* MICS indicator 21: MDG indic	ator 19C		¹ Modern	methods refer	to the pill, ll	UD, injection	ns and condo	ms. All other	methods are	considered to be tra	ditional method	s.

Table RH.2: Unmet need for contraception

Percentage of women aged 15-49 years currently married with an unmet need for family planning and percentage of demand for contraception satisfied, Somalia, 2006

					Number of women	Percentage of	Number of women currently
	Current use of	Unmet r	need for contrac	eption	currently	demand for	married with
	contraception*	For spacing	For limiting	Total	in union	satisfied	contraception
Region							
North West	25.6	22.4	6.8	29.2	943	46.7	516
North East	11.9	17.1	2.2	19.3	490	38.1	153
Central South	11.6	21.8	4.6	26.4	2985	30.5	1133
Residence							
Urban	16.9	19.5	6.3	25.8	1551	39.6	662
Rural	13.4	22.5	4.0	26.4	2866	33.6	1141
Age							
15-19	7.1	20.5	0.3	20.8	419	25.3	117
20-24	14.6	21.5	0.7	22.2	879	39.6	323
25-29	16.6	22.5	1.5	24.0	980	40.9	398
30-34	16.9	23.7	1.6	25.2	717	40.1	302
35-39	14.3	23.1	5.4	28.6	686	33.3	294
40-44	15.5	16.7	16.0	32.7	493	32.2	238
45-49	11.7	16.5	25.3	41.8	244	21.9	131
Education							
None	13.6	22.0	4.8	26.8	2838	33.8	1146
Koranic	16.5	21.5	3.8	25.3	677	39.5	283
Primary	15.7	20.4	3.6	24.0	564	39.4	224
Secondary +	22.6	15.9	8.6	24.5	133	48.0	63
Non Standard Curriculum	14.0	18.5	12.9	31.3	124	30.9	56
Wealth index quintiles							
Poorest	11.9	24.3	3.7	28.1	851	29.8	340
Second	13.8	21.5	3.6	25.1	977	35.5	381
Middle	13.8	23.7	5.3	29.0	909	32.3	390
Fourth	15.0	20.4	5.1	25.5	882	37.1	358
Richest	18.8	16.8	6.4	23.1	797	44.8	334
Total	14.6	21.4	4.8	26.2	4417	35.8	1802

* MICS indicator 21; MDG indicator 19C

The construction of indicators for unmet need for contraception varies from the standard MICS definition, see text (page 50) Total includes 30 children missing information on women's education who are not shown separately.

Table RH.3: Antenatal care provider

Percent distribution of women aged 15-49 who gave birth in the two years preceding the survey by type of personnel providing antenatal care, Somalia, 2006

_		Pei	rson providir	ıg antenatal ca	re**					Number
	Medical doctor	Nurse/ midwife	Auxiliary midwife	Traditional birth attendant	Relative/ friend	Other	No antenatal care received	Total	Any skilled personnel*	who gave birth in the preceding two years
Zone										
North West	27.9	2.2	1.7	1.9	0.2	5.6	60.4	100	31.8	496
North East	12.4	10.3	2.9	2.8	0.0	1.8	69.8	100	25.6	269
Central South	17.3	1.9	5.2	2.6	0.4	1.9	70.6	100	24.4	1560
Residence										
Urban	34.1	5.2	6.2	1.6	0.3	3.3	49.3	100	45.5	852
Rural	10.2	1.7	3.0	3.0	0.4	2.3	79.4	100.0	14.9	1472
Age										
15-19	16.6	1.5	6.2	4.5	0.5	3.3	67.4	100	24.3	240
20-24	19.8	3.8	3.2	2.3	0.3	1.6	68.9	100	26.9	630
25-29	19.3	3.6	4.8	3.1	0.2	2.8	66.3	100	27.7	631
30-34	21.5	2.5	4.1	1.5	0.9	2.6	66.9	100	28.1	391
35-39	15.6	2.4	4.9	2.6	0.0	4.1	70.4	100	22.9	279
40-44	17.5	0.3	1.8	0.0	0.0	3.3	77.1	100	19.6	138
45-49	(*)	(*)	(*)	(*)	(*)	(*)	(*)	100	(*)	16
Education										
None	14.5	2.3	3.6	2.7	0.5	2.0	74.3	100	20.5	1460
Koranic	16.6	2.7	4.4	2.7	0.0	3.7	69.8	100	23.8	369
Primary	36.4	5.3	5.9	1.2	0.0	4.1	47.0	100	47.7	314
Secondary +	44.1	4.9	4.3	0.0	0.0	3.8	43.0	100	53.3	64
Non Standard	3U 3	2.8	3 0	4.0	0.0	2.8	56 1	100	37 1	75
Wealth index quintiles	00.0	2.0	0.0	1.0	0.0	2.0	00.1	100	07.1	70
Poorest	52	0.8	23	13	0.8	23	87 2	100	84	435
Second	77	13	37	3.9	0.2	2.4	80.7	100	12.8	468
Middle	16.6	2.8	4.0	3.0	0.2	3.2	70.1	100	23.4	483
Fourth	25.6	3.8	5.5	3.2	0.5	2.0	59.4	100	34.9	508
Richest	40.1	6.0	5.3	0.6	0.0	3.5	44.5	100	51.4	430
		0.0	0.0	0.0	0.0	0.0				
Total	19.0	3.0	4.2	2.5	0.3	2.7	68.4	100	26.1	2325

* MICS indicator 20

* Skilled health personnel includes doctors, nurses, midwives, and auxiliary midwives.

** If the respondent mentioned more than one provider, only the most qualified provider is considered

Total includes 43 women missing information on education who are not shown separately.

Table RH.4: Antenatal care content

Percentage of pregnant women receiving antenatal care among women aged 15-49 years who gave birth in two years preceding the survey and percentage of pregnant women receiving specific care as part of the antenatal care received, Somalia, 2006

	Percent of pregnant		Percent of pregnant	: women who ha	d:	Number of
	women receiving ANC one or more times during pregnancy	Blood test taken*	Blood pressure measured*	Urine specimen taken*	Weight measured*	women who gave birth in two years preceding survey
Zone						
North West	39.6	22.6	32.1	14.5	31.3	496
North East	30.2	20.6	22.3	7.9	20.9	269
Central South	29.4	10.5	17.4	7.7	19.3	1560
Residence						
Urban	50.7	25.8	39.3	16.4	40.6	852
Rural	20.6	7.6	10.6	5.0	11.3	1472
Age						
15-19	32.6	9.8	18.7	6.4	19.1	240
20-24	31.1	13.7	20.8	9.5	20.4	630
25-29	33.7	15.7	24.2	9.3	25.7	631
30-34	33.1	15.9	22.2	10.9	23.7	391
35-39	29.6	13.5	16.7	7.8	18.3	279
40-44	22.9	14.5	17.9	11.4	20.0	138
45-49	(*)	(*)	(*)	(*)	(*)	16
Education						
None	25.7	9.7	15.3	7.0	16.9	1460
Koranic	30.2	12.7	19.1	7.0	18.4	369
Primary	53.0	30.1	42.3	17.9	43.3	314
Secondary +	57.0	41.0	48.8	21.7	45.3	64
Non Standard Curriculum	43.9	20.7	31.6	16.1	30.9	75
Wealth index quintiles						
Poorest	12.8	3.8	5.4	2.9	6.0	435
Second	19.3	6.0	8.9	3.9	9.4	468
Middle	29.9	8.8	16.6	5.5	19.5	483
Fourth	40.6	20.9	28.2	14.2	29.7	508
Richest	55.5	32.0	46.9	19.5	45.8	430
Total	31.6	14.2	21.1	9.2	22.0	2325

* MICS indicator 44

Total includes 43 women missing information on education who are not shown separately.

Table RH.4A: Number of antenatal care visits

Percentage of pregnant women receiving antenatal care among women aged 15-49 years who gave birth in two years preceding the survey and by number of antenatal care visits, Somalia, 2006

	Number	of antenatal car	e visits during p	regnancy	Mean	
	No visit	One visit	2-3 visits	4+ visits	number of visits among women who received antenatal care	Number of women who gave birth in two years preceding survey
Zone						
North West	60.4	9.6	19.6	10.3	2.6	496
North East	69.8	8.4	16.0	5.8	2.1	269
Central South	70.6	7.9	16.3	5.2	2.0	1560
Residence						
Urban	49.3	11.0	29.5	10.2	2.4	852
Rural	79.4	6.8	9.7	4.1	1.9	1472
Age						
15-19	67.4	10.9	17.6	4.1	2.1	240
20-24	68.9	7.1	17.9	6.0	2.4	630
25-29	66.3	9.3	16.4	8.0	2.2	631
30-34	66.9	10.2	17.9	5.1	2.1	391
35-39	70.4	7.1	15.2	7.3	2.1	279
40-44	77.1	3.4	14.3	5.2	2.3	138
45-49	(*)	(*)	(*)	(*)	(*)	16
Education						
None	74.3	7.8	12.6	5.3	2.0	1460
Koranic	69.8	6.9	17.0	6.2	2.0	369
Primary	47.0	13.1	32.4	7.5	2.5	314
Secondary +	43.0	11.3	31.6	14.2	2.7	64
Non Standard Curriculum	56.1	6.8	24.6	12.6	2.3	75
Wealth index quintiles						
Poorest	87.2	2.8	5.7	4.2	1.9	435
Second	80.7	5.4	8.3	5.5	1.8	468
Middle	70.1	11.6	13.5	4.7	1.8	483
Fourth	59.4	11.1	22.9	6.7	2.2	508
Richest	44.5	10.3	34.5	10.7	2.6	430
Total	68.4	8.4	17.0	6.3	2.2	2325

Total includes 43 women missing information on education who are not shown separately.

delivery	
during	
Assistance	
RH.5:	
Table	

Percent distribution of women aged 15-49 with a birth in two years preceding the survey by type of personnel assisting at delivery. Somalia, 2006

			Person assisti	ng at delivery							Number of women
	Medical doctor	Nurse/ midwife	Auxiliary midwife	Traditional birth attendant	Relative/ friend	Other	No attendant	Total	Any skilled personnel*	Delivered in health facility**	who gave birth in preceding two years
Zone											
North West Zone	19.5	1.5	20.4	37.0	18.5	2.1	1.2	100	41.3	21.4	496
North East Zone	5.3	1.6	29.9	47.1	13.1	1.0	2.0	100	36.8	7.9	269
Central South Residence	3.4	2.7	23.7	55.9	9.4	1.7	3.2	100	29.7	5.8	1560
Urban	15.3	5.4	44.3	29.5	3.8	1.1	0.6	100	65.0	20.4	852
Rural	2.3	0.5	11.8	63.3	16.4	2.0	3.8	100.0	14.5	3.0	1472
Age											
15-19	7.0	1.7	22.7	54.5	10.8	1.0	2.4	100	31.4	8.6	240
20-24	7.2	2.3	22.1	53.7	11.3	1.3	2.1	100	31.6	9.8	630
25-29	7.7	2.5	24.4	49.9	11.9	1.4	2.2	100	34.6	9.8	631
30-34	7.5	4.0	24.5	48.7	10.0	1.8	3.4	100	36.1	12.5	391
35-39	6.6	0.4	27.0	47.0	12.5	3.7	2.8	100	34.0	6.2	279
40-44	3.0	1.1	20.5	50.7	18.2	1.6	5.1	100	24.5	3.8	138
45-49	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	16
Education											
None	4.4	1.7	18.5	55.8	14.7	1.5	3.5	100	24.5	5.9	1460
Koranic	5.0	0.9	25.7	55.8	8.7	2.6	1.4	100	31.6	6.6	369
Primary	16.2	4.3	38.8	30.5	7.6	1.6	1.0	100	59.3	21.8	314
Secondary +	30.6	8.5	33.6	22.4	1.2	3.8	0.0	100	72.6	38.3	64
Non Standard Curriculum	11.7	5.0	38.2	40.3	4.2	0.6	0.0	100	54.8	15.0	75
Wealth index quintiles											
Poorest	0.8	0.2	9.6	59.6	20.6	2.7	6.5	100	10.6	1.4	435
Second	1.8	0.6	11.9	63.3	16.6	2.4	3.5	100	14.3	2.0	468
Middle	3.2	2.3	14.1	64.2	12.6	1.6	2.0	100	19.6	4.8	483
Fourth	7.9	3.5	33.7	45.3	7.7	0.6	1.3	100	45.1	8.0	508
Richest	22.4	4.7	49.7	20.1	1.5	1.2	0.3	100	76.8	32.1	430
Total	7.1	2.3	23.7	50.9	11.8	1.7	2.6	100	33.0	9.4	2325

* MICS indicator 4; MDG indicator 17

** MICS indicator 5

Total includes 43 women missing information on education who are not shown separately. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

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Table RH.5C: Postpartum medical problems	Percentage of pregnant women among women aged 15-49 years who gave birth in two years preceding the survey who had problems in the postpartum period, Somalia, 20

			Specific	health problems	encountered dur	ing the postpartum	period			Number of
	Fever	Problem controlling urine	Urinary tract infection	Mastitis	Offensive discharge	Tear/injury to genital area	Wound infection	Hemorrahage	Post delivery depression	women who gave birth in two years preceding survey
Zone North West	00	, C	۲ ۲	C C	5 0	ц	0	L 01	c C C	207
North Eact	20.0	10.2	4.	Z4.U	0.21	ч. 0	0.1	10./	13.3	430
	45.7	11.4	14.7	23.1	12.3	17.7	13.9	23.3	4.2	269
uentral south Residence	57.2	14.0	29.1	49.4	37.0	27.9	20.6	29.1	11.8	1560
Urban	45.3	10.5	22.0	40.5	34.9	27.5	16.7	20.5	10.1	852
Kural	55.8	14.3	24.6	41.2	25.5	20.0	17.6	29.5	11.9	1472
Age 15 10										
ا c - ا ع مہ مع	50.0	14.2	23.7	40.7	25.4	21.3	18.1	24.2	10.7	240
2U-24 or on	47.5	12.4	23.5	41.9	27.9	23.4	16.9	24.3	11.6	630
20-27 20.02	51.3	11.8	21.3	39.5	28.6	21.4	17.2	24.8	9.9	631
3U-34 or oo	54.8	13.2	25.1	41.4	30.7	24.0	15.8	29.7	11.4	391
5-35 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	58.2	15.8	26.4	38.4	31.7	24.5	18.5	30.5	11.8	279
4U-44	60.2	11.3	23.8	47.3	31.8	22.3	20.0	26.4	15.2	138
45-49 Education	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	16
None	C L L		00				0	L	L	
Koranic	7.66	14.4	26.1	43.4	28.3	23.3	18.3	30.5	d.21	1460
	47.8	13.0	20.1	42.0	33.4	24.6	17.2	21.6	9.7	369
rnmary SJ	43.7	8.9	17.6	33.5	25.5	20.3	14.4	16.5	9.1	314
secondary +	47.3	4.7	14.5	22.4	18.6	10.5	2.6	11.0	3.9	64
Non Standard Gurriculum Wealth index quintiles	43.3	5.0	28.8	33.8	41.6	30.1	19.1	22.5	6.5	75
Poorest	60 7	13.7	29.4	47 N	31.5	26.8	23.1	35.2	13.9	435
Second	55.5	14.7	25.7	44.2	29.2	20.8	19.0	32.9	13.8	468
Middle	51.9	14.2	22.9	42.8	23.2	16.7	15.3	24.0	7.9	483
Fourth	47.7	11.9	18.5	35.5	28.2	24.9	16.7	23.8	12.0	508
Hichest	44.0	10.3	22.4	35.6	33.3	25.1	12.5	15.1	8.6	430
Total	10	0.01	L CC	0.04	0.00	0 00	C 77	0 JC	C F F	1000
I OTAI	א.וכ	R.21	23.1	40.Y	78.9	Q.77	5./1	7.02	7.11	C752
Total includes 43 women missing in	formation on educ	ation who are n	ot shown separat	tely.						

Table RH.6: Maternal mortality ratio

Lifetime risk of maternal death and proportion of dead sisters dying of maternal causes, Somalia, 2006

Respondent a 15-19 20-24 25-29 30-34 35-39 40-44 45-49 50-54 50-54 55-59 60+	Number of adult household respondents ge 3435.3 2527.5 2082.7 1597.8 1478.1 1353.9 779.8 935.9 458.0 1772.9	Sisters who reached age 15 3759.9 3883.2 4469.0 3795.0 3852.7 3639.9 2001.7 2598.2 1255.0 4676.3	Sisters who reached age 15 (adjusted) 9793.8 10115.2 11640.9 3795.0 3852.7 3639.9 2001.7 2598.2 1255.0 4676 3	Sisters who reached aged 15 and who died 132.6 200.6 305.6 294.2 345.1 384.2 259.2 385.2 236.5 1145.2	Maternal deaths 84.5 130.5 160.1 161.7 179.3 187.2 121.7 163.3 96.5 344.7	Adjustment factor 0.1 0.2 0.3 0.5 0.7 0.8 0.9 1.0 1.0 1.0	Sister units of risk exposure 1047.9 2083.7 3992.8 1908.9 2558.2 2919.2 1801.5 2489.1 1237.4 4676.3	Lifetime risk of maternal death 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	Proportion of dead sisters dying of maternal causes 63.7 65.0 52.4 54.9 51.9 48.7 47.0 42.4 40.8 30.1
bU+	1772.9	4676.3	4676.3	1145.2	344./	1.0	4676.3	0.1	30.1
Total	16421.8	33930.9	53368.6	3688.3	1629.3		24715.1	0.1	44.2
Maternal Mor	rtality Ratio*	1044							

* MICS indicator 3; MDG indicator 16

A total fertility arte of 6.5 was used in the MMR calculation

See Graham, W. W. Brass and R. Snow 1989. Estimating maternal mortality: the sisterhood method. Studies in Family Planning 20(3):125-135

Table CD.1: Family support for learning

Percentage of children aged 0-59 months for whom household members are engaged in activities that promote learning and school readiness, Somalia, 2006

		Percentage	of children aged 0-	59 months		
	For whom household members engaged in four or more activities that promote learning and school readiness *	Mean number of activities household members engage in with the child	For whom the father engaged in one or more activities that promote learning and school readiness **	Mean number of activities the father engage in with the child	Living in a household without their natural father	Number of children aged 0-59 months
Sex						
Male	65.5	3.9	39.3	0.9	15.0	3275
Female	64.6	3.8	39.5	0.0	16.6	3030
Zone	01.0	0.0	00.0	0.0	10.0	0000
North West	69.0	3 9	29 5	05	16 9	1244
North East	78.9	0.0 1 /l	55.9	1.5	10.3	666
Central South	61.9	3.7	39.7	0.9	17.5	1391
Residence	01.5	5.7	55.7	0.5	13.2	4004
Urban	67.2	4.0	<i>I</i> E 1	1.2	10.6	2254
Rural	62.0	4.0	45.1	0.7	13.0	4051
Age	03.9	5.0	JU.Z	0.7	13.7	4001
0-23 months	46.9	3.2	27.8	0.6	12.3	2413
24-59 months	76.3	4.2	46.6	1.1	17.9	3892
Mother's Education						
None	64.0	3.8	38.7	0.8	14.8	3924
Koranic	65.5	3.8	40.3	1.0	16.1	1151
Primary	66.3	4.0	38.9	1.0	16.7	821
Secondary +	73.8	4.4	44.9	1.2	23.6	194
Non standard curriculum	71.2	4.1	44.6	0.9	23.3	194
Fathers's education						
None	66.0	3.8	46.1	1.1	0.0	1494
Koranic	62.3	3.7	39.0	0.8	0.0	1823
Primary	61.4	3.8	44.2	1.0	0.0	977
Secondary +	71.4	4.1	48.9	1.3	0.0	740
Non standard curriculum	71.1	4.1	48.9	1.1	0.0	146
Father not in household	66.5	3.9	15.6	0.4	100.0	995
Don't know/Missing	67.0	4.0	50.0	1.0	0.0	130
Wealth index quintiles						
Poorest	63.7	3.7	35.8	0.7	10.9	1266
Second	62.1	3.7	36.3	0.7	12.7	1294
Middle	63.8	3.8	38.1	0.8	15.4	1304
Fourth	66.6	3.9	42.7	1.1	19.6	1308
Richest	69.7	4.1	44.8	1.2	20.8	1132
	00.7				20.0	
Total	65.1	3.8	39.4	0.9	15.8	6305

* MICS indicator 46

** MICS indicator 47

Total includes 21 children missing information on mother's education who are not shown separately.

Table ED.1: Early childhood education

Percentage of children aged 36-59 months who are attending some form of organized early childhood education programme, Somalia, 2006

Sex 2.3 1356 Hale 2.3 1356 Female 2.2 1273 Zone 7 244 North Kest 5.7 524 North East 2.1 274 Central South 1.3 1830 Residence 7 7 Urban 4.6 940 Rural 1.0 1801 Age of child 7 1307 Se sponths 3.3 1322 6 years*** na na None 1.6 1642 Koranic 2.1 499 Primary 3.9 320 Secondary + 6.0 79 Non standard curriculum 7.0 78 Weath index quintiles 9 33 Primary 3.9 520 Second 0.4 538 Gendary + 6.0 79 Norticulum 7.0 78 Weath index quintiles 24 522 Fourth 2.7 529 </th <th></th> <th>Percentage of children aged 36-59 months currently attending early childhood education*</th> <th>Number of children aged 36-59 months</th>		Percentage of children aged 36-59 months currently attending early childhood education*	Number of children aged 36-59 months
Male 2.3 1356 Female 2.2 1273 Zone 2 1273 North West 5.7 524 North East 2.1 274 Central South 1.3 1830 Residence Urban 4.6 940 Rural 1.0 1689 Age of child 3c47 months 1.2 1307 48-59 months 3.3 1322 6 years*** na na None 1.6 1642 Koranic 2.1 499 Primary 3.9 3200 Secondary + 6.0 79 Non standard curiculum 7.0 78 Weath index quintiles 2.1 525 Second 0.4 538 Middle 2.4 522 Fourth 2.7 529 Fourth 2.7 529	Sex		
Female 2.2 1273 Zone 7 North West 5.7 524 North East 2.1 274 Central South 1.3 1830 Residence 7 7 Urban 4.6 940 Rural 1.0 1689 Age of child 7 7 36-47 months 1.2 1307 48-59 months 3.3 1322 6 years*** na na None 1.6 1642 Koranic 2.1 499 Primary 3.9 320 Secondary + 6.0 79 Non standard curriculum 7.0 78 Wealth index quintiles 1 55 Second 0.4 538 Middle 2.4 522 Fourth 2.7 529 Fourth 2.7 529 Rick 47 529 Second 2.4 522	Male	2.3	1356
Zone North West 5.7 524 North East 2.1 274 Central South 1.3 1830 Residence Urban 4.6 940 Rural 1.0 1689 Age of child 36-47 months 1.2 1307 48-59 months 3.3 1322 6 years*** na na Mother's education 1.1 499 Primary 3.9 320 Secondary + 6.0 79 Non standard curriculum 7.0 78 Wealth index quintiles 2.4 523 Fourth 2.7 529 Ruiches 3.3 422 Fourth 2.7 529 Ruiches 3.3 425	Female	2.2	1273
North West 5.7 524 North East 2.1 274 Central South 1.3 1830 Residence 1 Urban 4.6 940 Rural 1.0 1689 Age of child 1 36-47 months 1.2 1307 48-59 months 3.3 1322 6 years*** na na Mother's education 16 None 1.6 1642 Koranic 2.1 499 Primary 3.9 320 Secondary + 6.0 79 Non standard curriculum 7.0 78 Wealth index quintiles 55 Second 0.4 538 Middle 2.4 522 Fourth 2.7 529 Rithest 5.8 479	Zone		
North East 2.1 274 Central South 1.3 1830 Residence Urban 4.6 940 Rural 1.0 1689 Age of child 36-47 months 1.2 1307 48-59 months 3.3 1322 6 years*** na na Mother's education None 1.6 1642 Koranic 2.1 499 Primary 3.9 320 Secondary + 6.0 79 Non standard curriculum 7.0 78 Weatth index quintiles 535 Second 0.4 538 Middle 2.4 522 Fourth 2.7 529 Richest 5.8 475	North West	5.7	524
Central South 1.3 1830 Residence Urban 4.6 940 Rural 1.0 1689 Age of child 36-47 months 1.2 1307 48-59 months 3.3 1322 6 years*** na na Mother's education na None 1.6 1642 Koranic 2.1 499 Primary 3.9 320 Secondary + 6.0 79 Non standard curriculum 7.0 78 Weatth index quintiles 538 Poorest 0.5 565 Second 0.4 538 Middle 2.4 522 Fourth 2.7 529 Richest 5.8 475	North East	2.1	274
Residence Uthan 4.6 940 Rural 1.0 1689 Age of child 12 1307 36-47 months 1.2 1307 48-59 months 3.3 1322 6 years*** na na Mother's education 1.6 1642 Koranic 2.1 499 Primary 3.9 320 Secondary + 6.0 79 Non standard curriculum 7.0 78 Vealth index quintiles 24 523 Fourth 2.5 565 Second 0.4 538 Middle 2.4 522 Fourth 2.7 529 Richest 5.8 475	Central South	1.3	1830
Urban 4.6 940 Rural 1.0 1689 Age of child 12 1307 36-47 months 1.2 1307 48-59 months 3.3 1322 6 years*** na na Mother's education 1.6 1642 Koranic 2.1 499 Primary 3.9 320 Secondary + 6.0 79 Non standard curriculum 7.0 78 Wealth index quintiles 1 538 Porest 0.5 565 Second 0.4 538 Middle 2.4 522 Fourth 2.7 529 Richest 5.8 475	Residence		
Rural 1.0 1689 Age of child 36.47 months 1.2 1307 36.45 months 3.3 1322 6 years*** na na Mother's education na na None 1.6 1642 Koranic 2.1 499 Primary 3.9 320 Secondary + 6.0 79 Non standard curriculum 7.0 78 Wealth index quintiles 1 565 Second 0.4 538 Middle 2.4 522 Fourth 2.7 529 Richest 5.8 475 Total 73 2628	Urban	4.6	940
Age of child 1.2 1307 36-47 months 1.2 1307 48-59 months 3.3 1322 6 years*** na na Mother's education na 16 None 1.6 1642 Koranic 2.1 499 Primary 3.9 320 Secondary + 6.0 79 Non standard curriculum 7.0 78 Wealth index quintiles 1 565 Second 0.4 538 Middle 2.4 522 Fourth 2.7 529 Richest 5.8 475 Verth 5.8 475	Rural	1.0	1689
36-47 months 1.2 1307 48-59 months 3.3 1322 6 years*** na na Mother's education na na None 1.6 1642 Koranic 2.1 499 Primary 3.9 320 Secondary + 6.0 79 Non standard curriculum 7.0 78 Wealth index quintiles 1 55 Poorest 0.5 565 Second 0.4 538 Middle 2.4 522 Fourth 2.7 529 Richest 5.8 475 Total 2.3 2628	Age of child		
48-59 months 3.3 1322 6 years*** na na Mother's education 1.6 1642 Koranic 2.1 499 Primary 3.9 320 Secondary + 6.0 79 Non standard curriculum 7.0 78 Wealth index quintiles 1 565 Second 0.4 538 Middle 2.4 522 Fourth 2.7 529 Richest 5.8 475 Total 23 2628	36-47 months	1.2	1307
6 years*** na na Mother's education 1.6 1642 None 1.6 1642 Koranic 2.1 499 Primary 3.9 320 Secondary + 6.0 79 Non standard curriculum 7.0 78 Wealth index quintiles 90 90 Poorest 0.5 565 Second 0.4 538 Middle 2.4 522 Fourth 2.7 529 Richest 5.8 475	48-59 months	3.3	1322
Mother's education 1.6 1642 None 1.6 1642 Koranic 2.1 499 Primary 3.9 320 Secondary + 6.0 79 Non standard curriculum 7.0 78 Wealth index quintiles 70 565 Second 0.4 538 Middle 2.4 522 Fourth 2.7 529 Richest 5.8 475 Total 2.3 2628	6 years***	na	na
None 1.6 1642 Koranic 2.1 499 Primary 3.9 320 Secondary + 6.0 79 Non standard curriculum 7.0 78 Wealth index quintiles 70 78 Poorest 0.5 565 Second 0.4 538 Middle 2.4 522 Fourth 2.7 529 Richest 5.8 475	Mother's education		
Koranic 2.1 499 Primary 3.9 320 Secondary + 6.0 79 Non standard curriculum 7.0 78 Wealth index quintiles 70 78 Poorest 0.5 565 Second 0.4 538 Middle 2.4 522 Fourth 2.7 529 Richest 5.8 475	None	1.6	1642
Primary 3.9 320 Secondary + 6.0 79 Non standard curriculum 7.0 78 Wealth index quintiles 70 78 Poorest 0.5 565 Second 0.4 538 Middle 2.4 522 Fourth 2.7 529 Richest 5.8 475	Koranic	2.1	499
Secondary + 6.0 79 Non standard curriculum 7.0 78 Wealth index quintiles 70 Poorest 0.5 565 Second 0.4 538 Middle 2.4 522 Fourth 2.7 529 Richest 5.8 475	Primary	3.9	320
Non standard curriculum7.078Wealth index quintiles0.5565Poorest0.5565Second0.4538Middle2.4522Fourth2.7529Richest5.8475Total2.3	Secondary +	6.0	79
Wealth index quintiles Poorest 0.5 565 Second 0.4 538 Middle 2.4 522 Fourth 2.7 529 Richest 5.8 475	Non standard curriculum	7.0	78
Poorest 0.5 565 Second 0.4 538 Middle 2.4 522 Fourth 2.7 529 Richest 5.8 475	Wealth index quintiles		
Second 0.4 538 Middle 2.4 522 Fourth 2.7 529 Richest 5.8 475	Poorest	0.5	565
Middle 2.4 522 Fourth 2.7 529 Richest 5.8 475	Second	0.4	538
Fourth 2.7 529 Richest 5.8 475 Total 2.3 2628	Middle	2.4	522
Richest 5.8 475	Fourth	2.7	529
Total 2.3 2628	Richest	5.8	475
Total 2.3 2628			
	Total	2.3	2628

* MICS indicator 52

Total includes 10 children missing information on mother's education who are not shown separately.

Table ED.2: Primary school entry

Percentage of children of primary school entry age attending grade 1, Somalia, 2006

	Percentage of children of primary school entry age currently attending grade 1	Number of children of primary school entry age*
Sex		
Male	11.4	592
Female	5.7	547
Zone		
North West	22.4	264
North East	10.9	118
Central South	3.5	757
Residence		
Urban	15.5	401
Rural	5.0	738
Age of child**		
6	8.7	1139
Mother's education		
None	5.5	719
Koranic	6.1	196
Primary	20.3	144
Secondary +	(22.0)	48
Non Standard curriculm	(26.7)	29
Wealth index quintiles		
Poorest	1.6	234
Second	3.2	250
Middle	7.3	220
Fourth	10.1	218
Richest	22.7	216
Total	8.7	1139

* MICS indicator 54

Table based on estimated age as of the beginning of the school year

Total includes 3 children missing information on mother's education who are not shown separately.

Table ED.3: Primary school net attendance ratio

Percentage of children of primary school age attending primary or secondary school (NAR), Somalia, 2006

	Ма	le	Fem	ale	To	tal
	Net attendance ratio	Number of children	Net attendance ratio	Number of children	Net attendance ratio*	Number of children
Zone						
North West	52.7	1009	38.0	1057	45.2	2066
North East	28.5	410	23.6	415	26.1	825
Central South	13.3	2482	12.4	2301	12.9	4783
Residence						
Urban	45.2	1459	36.8	1417	41.1	2876
Rural	13.1	2442	11.1	2356	12.1	4798
Age						
6	13.3	592	7.4	547	10.5	1139
7	20.2	647	13.6	629	16.9	1276
8	22.8	443	22.3	413	22.6	856
9	27.2	627	23.2	573	25.3	1199
10	29.0	329	30.0	325	29.5	654
11	31.8	510	23.8	493	27.9	1003
12	31.3	403	28.6	355	30.0	758
13	32.9	352	26.5	438	29.4	789
Mother's education						
None	18.8	2464	14.2	2422	16.5	4887
Koranic	21.9	674	20.5	602	21.3	1276
Primary	52.2	491	44.0	465	48.2	956
Secondary	49.6	166	50.8	166	50.2	331
Non standard curriculum	29.3	93	25.1	105	27.1	198
Wealth index quintiles						
Poorest	4.8	831	4.1	833	4.5	1664
Second	8.0	783	5.8	747	6.9	1531
Middle	21.4	770	16.3	714	19.0	1484
Fourth	36.4	778	31.6	744	34.0	1521
Richest	58.0	739	48.3	735	53.2	1474
Total	25.1	3902	20.8	3773	23.0	7674

* MICS indicator 55; MDG indicator 6

Table based on estimated age as of the beginning of the school year

Total includes 26 children missing information on mother's education who are not shown separately.

Table ED.4: Secondary school net attendance ratio

Percentage of children of secondary school age attending secondary school or higher (NAR), Somalia, 2006

	Ma	ale	Fen	nale	То	tal
	Net attendance ratio	Number of children	Net attendance ratio	Number of children	Net attendance ratio*	Number of children
Zone						
North West	16.1	452	5.6	425	11.0	877
North East	12.9	145	4.7	165	8.5	310
Central South	5.7	927	4.2	970	5.0	1898
Residence						
Urban	18.3	668	10.1	699	14.1	1367
Rural	2.6	857	0.2	861	1.4	1718
Age						
14	3.5	397	3.3	279	3.4	676
15	8.4	393	4.5	399	6.4	792
16	12.9	295	5.4	343	8.9	639
17	13.5	439	5.0	540	8.8	978
Mother's education						
None	4.2	548	3.4	435	3.9	983
Koranic	6.2	131	8.1	89	6.9	221
Primary	21.2	99	10.9	94	16.2	193
Secondary +	(31.1)	41	(26.7)	24	29.5	65
Non Standard Curriculum	(5.5)	27	(*)	19	(3.2)	46
Mother not in household	8.0	236	1.9	357	4.3	593
Wealth index quintiles						
Poorest	0.5	326	0.0	258	0.3	584
Second	0.9	250	0.2	249	0.5	499
Middle	2.2	295	0.0	316	1.1	611
Fourth	9.4	292	4.1	344	6.5	636
Richest	29.5	361	14.8	393	21.8	755
Total	9.5	1524	4.6	1561	7.0	3085

* MICS indicator 56

Table based on estimated age as of the beginning of the school year

Total includes 4 children missing information on mother's education who are not shown separately.

Figures in parenthesis are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

Table ED.4w: Secondary school age children attending primary school

Percentage of children of secondary school age attending primary school, Somalia, 2006

	Μ	ale	Fer	nale	To	tal
	Percent		Percent		Percent	
	attending	Number of	attending	Number of	attending	Number of
	primary	childron	primary	childron	primary	childron
Zone	3011001	CIIIIUICII	301001	GIIIUIGI	301001	CITICIEI
North West	35.3	452	26.7	425	31.1	877
North East	23.0	145	21.7	165	22.3	310
Central South	17.1	927	9.9	970	13.4	1898
Residence						
Urban	38.0	668	24.0	699	30.8	1367
Rural	11.4	857	9.0	861	10.2	1718
Age						
14	28.3	397	24.3	279	26.6	676
15	30.2	393	17.1	399	23.6	792
16	19.8	295	15.8	343	17.6	639
17	14.1	439	10.3	540	12.0	978
18						
Mother's education						
None	22.6	548	17.1	435	20.2	983
Koranic	29.2	131	25.2	89	27.6	221
Primary	42.6	99	38.5	94	40.6	193
Secondary +	(51.3)	41	(48.3)	24	50.2	65
Non Standard Curriculum	(36.3)	27	(*)	19	(30.7)	46
Mother not in household	23.2	236	11.2	357	16.0	593
Wealth index quintiles						
Poorest	5.3	326	1.1	258	3.5	584
Second	9.3	250	3.4	249	6.4	499
Middle	25.5	295	14.2	316	19.6	611
Fourth	29.9	292	20.1	344	24.6	636
Richest	41.1	361	30.6	393	35.6	755
	66 4	4504	45.7	4504	10.1	0005
lotal	23.1	1524	15./	1561	19.4	3085

Table based on estimated age as of the beginning of the school year

Total includes 4 children missing information on mother's education who are not shown separately.

Figures in parenthesis are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

Table ED.5: Children reaching grade 5

Percentage of children entering first grade of primary school who eventually reach grade 5, Somalia, 2006

	Percent attending 2 nd grade who were in 1 st grade last year	Percent attending 3 rd grade who were in 2 nd grade last year	Percent attending 4 th grade who were in 3 rd grade last year	Percent attending 5 th grade who were in 4 th grade last year	Percent who reach grade 5 of those who enter 1 st grade*
Sex					
Male	97.3	99.8	99.0	97.4	93.6
Female	98.9	97.5	95.9	95.8	88.7
Zone					
North West	98.3	100.0	99.5	98.3	96.1
North East	94.2	98.1	100.0	97.6	90.1
Central South	98.8	97.4	94.7	94.5	86.0
Residence					
Urban	99.1	98.8	99.6	99.3	96.9
Rural	96.7	98.7	93.5	90.5	80.7
Mother's education					
None	98.0	99.1	98.5	96.4	92.2
Koranic	100.0	99.3	100.0	98.7	98.0
Primary	97.1	100.0	96.9	97.7	91.9
Secondary +	100.0	100.0	100.0	100.0	100.0
Non Standard Curriculum	100.0	100.0	100.0	100.0	100.0
Wealth index quintiles					
Poorest	80.0	100.0	100.0	100.0	80.0
Second	97.8	100.0	88.6	71.2	61.7
Middle	100.0	98.4	92.9	93.8	85.8
Fourth	100.0	98.0	100.0	99.3	97.3
Richest	98.5	99.2	99.4	99.3	96.6
Total	98.0	98.8	97.8	96.7	91.6

* MICS indicator 57; MDG indicator 7

Table ED.6: Primary school completion

Primary school completion rate and transition rate to secondary education, Somalia, 2006

	Net primary school completion rate*	Number of children of primary school completion age
Sex		
Male	4.4	352
Female	4.3	438
Zone		
North West	6.1	232
North East	6.2	84
Central South	3.2	473
Residence		
Urban	6.1	314
Rural	3.2	476
Mother's education		
None	3.1	535
Koranic	2.6	126
Primary	7.5	76
Secondary	(25.2)	30
Non Standard Curriculum	(*)	22
Wealth index quintiles		
Poorest	3.6	191
Second	0.8	141
Middle	2.9	138
Fourth	5.5	177
Richest	8.8	143
Total	4.3	789

* MICS indicator 59; MDG indicator 7b

Total includes 1 children missing information on mother's education who are not shown separately.

Figures in parenthesis are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

Table ED.7: Education gender parity

Ratio of girls to boys attending primary education and ratio of girls to boys attending secondary education, Somalia, 2006

	Primary school net attendance ratio (NAR), girls	Primary school net attendance ratio (NAR), boys	Gender parity index (GPI) for primary school NAR*	Secondary school net attendance ratio (NAR), girls	Secondary school net attendance ratio (NAR), boys	Gender parity index (GPI) for secondary school NAR*
Zone						
North West	38.0	52.7	0.72	5.6	16.1	0.35
North East	23.6	28.5	0.83	4.7	12.9	0.36
Central South	12.4	13.3	0.93	4.2	5.7	0.74
Residence						
Urban	36.8	45.2	0.82	10.1	18.3	0.55
Rural	11.1	13.1	0.85	0.2	2.6	0.08
Mother's education						
None	14.2	18.8	0.75	3.4	4.2	0.82
Koranic	20.5	21.9	0.94	8.1	6.2	1.31
Primary	44.0	52.2	0.84	10.9	21.2	0.51
Secondary	50.8	49.6	1.02	26.7	31.1	0.86
Non Standard Curriculum	25.1	29.3	0.86	0.0	5.5	0.00
Don't know/Missing	16.8	29.6	0.57	0.0	0.0	0.00
Wealth index quintiles						
Poorest	4.1	4.8	0.86	0.0	0.5	0.00
Second	5.8	8.0	0.72	0.2	0.9	0.24
Middle	16.3	21.4	0.76	0.0	2.2	0.00
Fourth	31.6	36.4	0.87	4.1	9.4	0.43
Richest	48.3	58.0	0.83	14.8	29.5	0.50
Total	20.8	25.1	0.83	4.6	9.5	0.49

* MICS indicator 61; MDG indicator 9

Table based on estimated age as of the beginning of the school year

Table ED.8: Adult literacy

Percentage of women aged 15-24 years that are literate*, Somalia, 2006

	Percentage literate*	Percentage not known**	Number of women aged 15-24 years
Zone			
North West	35.5	0.3	803
North East	32.4	0.4	344
Central South	19.3	0.5	1914
Residence			
Urban	44.9	0.5	1331
Rural	9.8	0.4	1730
Educational Level			
None	1.4	0.6	1550
Koranic	10.0	0.2	559
Primary	72.0	0.5	572
Secondary +	100.0	0.3	170
Non Standard Curriculum	58.5	0.0	149
Don't know/Missing	29.8	0.0	59
Age			
15-19	27.5	0.6	1706
20-24	21.9	0.3	1354
Wealth index quintiles			
Poorest	2.2	0.4	494
Second	6.0	0.4	549
Middle	11.8	0.4	608
Fourth	29.6	0.4	625
Richest	59.4	0.6	784
Total	24.7	0.4	3060

* MICS indicator 60; MDG indicator 8

Table CP.1: Birth registration

Percent distribution of children aged 0-59 months by whether birth is registered and reasons for non-registration, Somalia, 2006

					Birth is not r	egistered be	ecause:				Number
	Birth is registered*	Number of children aged 0-59 months	Costs too much	Must travel too far	Didn't know child should be registered	Doesn't know where to register	Other	Do not see the need to	Don't know	Total	of children aged 0-59 months without birth registration
Sex											
Male	3.3	3275	2.0	9.7	26.8	34.1	1.3	22.3	2.7	100	3180
Female	2.7	3030	1.8	10.1	28.1	32.6	2.0	21.4	3.0	100	2961
Zone											
North West Zone	6.6	1244	3.7	17.1	25.3	25.0	2.3	18.5	6.6	100	1166
North East Zone	3.3	666	4.3	17.6	23.9	29.9	0.2	19.3	3.3	100	649
Central South	1.9	4394	1.1	6.9	28.6	36.2	1.7	23.1	1.8	100	4326
Residence											
Urban	5.6	2254	3.9	2.9	26.1	33.4	1.1	28.6	3.3	100	2139
Rural	1.5	4051	0.9	13.7	28.2	33.3	1.9	18.2	2.6	100	4001
Age											
0-11 months	2.9	1326	2.0	8.6	27.0	34.9	1.9	21.2	3.3	100	1294
12-23 months	4.1	1086	2.3	11.3	27.8	30.0	2.0	23.3	2.3	100	1046
24-35 months	2.9	1264	1.9	10.9	27.2	32.9	1.8	22.1	2.3	100	1231
36-47 months	2.9	1307	2.0	9.1	28.1	33.9	1.5	21.4	2.8	100	1276
48-59 months	2.3	1322	1.4	10.1	27.1	34.6	1.0	21.4	3.4	100	1294
Education											
None	2.3	3924	1.9	10.1	27.4	34.7	1.5	20.3	3.1	100	3846
Koranic	2.1	1151	1.3	9.8	31.8	31.5	2.4	21.0	1.2	100	1131
Primary	5.3	821	2.4	9.7	23.3	28.9	1.8	29.6	3.2	100	782
Secondary +	10.8	194	4.1	7.6	21.7	28.2	0.0	32.1	5.5	100	175
Non Standard Curriculum	3.8	194	0.8	12.0	23.5	41.0	1.8	17.0	2.7	100	188
Wealth index quintiles											
Poorest	1.0	1266	0.6	13.0	36.2	29.0	1.9	15.5	2.8	100	1259
Second	1.0	1294	0.7	11.9	24.0	40.6	2.3	16.8	2.7	100	1283
Middle	1.8	1304	2.2	12.0	28.3	29.6	2.2	22.4	2.1	100	1284
Fourth	4.9	1308	2.6	8.3	26.3	34.9	1.4	22.1	3.2	100	1256
Richest	6.6	1132	3.7	3.4	21.5	32.7	0.2	34.4	3.4	100	1059
Total	3.0	6305	1.9	9.9	27.4	33.4	1.6	21.8	2.8	100	6141

* MICS indicator 62

Total includes 20 children missing information on mother's education who are not shown separately.

Table CP.2: Child labour

Percentage of children aged 5-14 years who are involved in child labour activities by type of work, Somalia, 2006

	Working outsid	e household	Household chores for	Working		Number of children
	Paid work	Unpaid	28+ hours/	for family	Total child	aged 5-14
Sex		WUIK	WEEK	DUSITIESS		years
Male	0.5	1.5	16.2	38.1	44.5	5203
Female	1.2	1.8	31.3	35.1	53.6	5027
Zone			0110		0010	0027
North West	0.5	2.5	17.0	21.3	35.9	2742
North East	0.7	3.3	19.2	36.3	47.2	1113
Central Southern	1.1	0.9	27.3	43.3	54.9	6375
Residence						
Urban	0.7	1.3	20.6	22.4	36.1	3803
Rural	1.0	1.8	25.4	45.1	56.6	6426
Age						
5-11 years	0.5	1.5	18.4	36.0	44.8	7679
12-14 years	2.1	1.9	39.5	38.4	61.7	2550
School participation						
Yes	0.6	1.4	22.5	31.3	44.2	5007
No	1.1	1.8	24.8	41.7	53.5	5223
Mother's education						
None	1.0	1.7	23.8	38.8	50.8	6500
Koranic	0.6	0.9	26.9	41.3	53.5	1714
Primary	0.9	2.5	19.6	23.9	38.5	1293
Secondary +	0.0	0.8	20.1	24.3	34.3	430
Non standard curriculum	0.5	1.5	26.1	36.0	51.7	257
Wealth index quintiles						
Poorest	0.8	1.6	28.5	51.1	62.1	2208
Second	1.2	2.0	28.0	48.1	59.9	2027
Middle	1.3	2.1	23.1	37.2	50.7	1994
Fourth	0.8	1.9	20.8	26.3	39.0	2045
Richest	0.2	0.5	17.2	18.7	31.5	1955
Total	0.9	1.6	23.6	36.6	49.0	10230

* MICS indicator 71

Total includes 36 children missing information on mother's education who are not shown separately.

Table CP.3: Labourer students and student labourers

Percentage of children aged 5-14 years who are labourer students and student labourers, Somalia, 2006

	Percentage of children in child labour*	Percentage of children attending school***	Number of children 5-14 years of age	Percentage of child labourers who are also attending school**	Number of child labourers aged 5-14	Percentage of students who are also involved in child labour****	Number of students aged 5-14
Sex							
Male	44.5	20.0	5203	50.2	2316	39.7	2927
Female	53.6	16.4	5027	39.1	2694	50.6	2079
Zone							
North West	35.9	36.4	2742	47.8	984	32.4	1452
North East	47.2	20.4	1113	52.7	525	47.3	585
Central South	54.9	10.0	6375	42.0	3501	49.5	2970
Residence							
Urban	36.1	32.4	3803	71.9	1375	37.0	2671
Rural	56.6	9.8	6426	33.7	3635	44.6	629
Age							
5-9 years	44.8	14.6	7679	42.0	3437	40.5	3561
10-14 years	61.7	29.0	2550	49.1	1573	53.4	1446
Mother's education							
None	50.8	13.0	6500	37.3	3302	46.7	2637
Koranic	53.5	16.6	1714	48.8	918	47.3	947
Primary	38.5	38.1	1293	68.7	497	37.9	900
Secondary +	34.3	40.9	430	75.6	148	32.2	346
Non standard curriculum	51.7	22.5	257	60.6	133	50.0	161
Wealth index quintiles							
Poorest	62.1	3.7	2208	26.3	1370	59.9	601
Second	59.9	5.6	2027	31.1	1215	58.5	645
Middle	50.7	15.2	1994	43.7	1011	48.5	912
Fourth	39.0	26.6	2045	66.0	798	41.1	1283
Richest	31.5	42.0	1955	82.7	616	32.5	1567
Total	49.0	18.2	10230	44.2	5010	44.2	5007

** MICS indicator 72

**** MICS indicator 73

Total includes 15 children missing information on mother's education who are not shown separately.

Table CP.4: Early marriage and polygyny

Percentage of women aged 15-49 years in marriage or union before their 15th birthday, percentage of women aged 20-49 years married before their 18th birthday, percentage of women aged 15-19 years currently married, and the percentage of married women in a polygynous marriage, Somalia, 2006

	Percentage married before age 15*	Number of women aged 15- 49 years	Percentage married before age 18*	Number of women aged 20- 49 years	Percentage of women 15-19 married/in union**	Number of women aged 15- 19 years	Percentage of women aged 15-49 years in polygynous marriage/ union***	Number of women aged 15- 49 years currently married/in union
Zone			•		•			•
North West	3.0	1723	27.8	1269	13.0	454	16.7	943
North East	3.6	750	32.0	563	26.0	187	25.7	490
Central South	10.3	4291	55.6	3225	29.2	1066	24.4	2985
Residence								
Urban	7.1	2735	41.0	1969	17.4	767	21.0	1551
Rural	8.1	4028.7	49.2	3089.0	30.4	939.7	23.9	2866
Age								
15-19	4.9	1706	na	na	24.6	1706	13.2	419
20-24	8.4	1354	45.3	1354	na	na	14.3	879
25-29	6.8	1183	44.0	1183	na	na	21.8	980
30-34	10.8	822	49.1	822	na	na	25.4	717
35-39	10.0	798	49.9	798	na	na	26.6	686
40-44	8.7	580	46.1	580	na	na	32.6	493
45-49	8.0	320	38.8	320	na	na	37.0	244
Education								
None	8.7	3944	48.7	3155	31.9	789	23.9	2838
Koranic	7.3	1082	47.4	757	24.6	325	22.6	677
Primary	7.1	1040	42.1	654	16.8	387	19.3	564
Secondary +	4.4	320	24.8	224	6.4	96	16.1	133
Non Standard Curriculum	3.1	250	35.9	173	15.1	77	21.7	124
Don't know/Missng	4.1	128	40.1	96	15.8	32	25.7	81
Wealth index quintiles								
Poorest	9.0	1214	49.4	942	24.5	272	22.2	851
Second	8.8	1337	52.4	1064	32.1	273	24.6	977
Middle	7.4	1334	48.7	989	33.9	345	23.3	909
Fourth	7.0	1373	44.5	1005	23.6	368	22.5	882
Richest	6.7	1506	35.5	1057	13.7	449	21.4	797
Total	7.7	6764	46.0	5058	24.6	1706	22.9	4417

* MICS indicator 67

** MICS indicator 68

*** MICS indicator 70

difference
age
Spousal
CP.5:
Table

Percent distribution of currently married/in union women aged 15-19 and 20-24 years according to the age difference with their husband or partner, Somalia, 2006

	Percent	age of curr years	ently marri whose hus	ed/in union band or par	women aged tner is:	15-19	Number	Percenta	je of currer w	ıtly marriec hose husba	l/in union v nd or partn	vomen aged 20-3 ler is:	i4 years	Number
	Younger	0-4 years older	5-9 years older	10+ years older*	Husband/ partner's age unknown	Total	of women aged 15- 19 years currently married/ in union	Younger	0-4 years older	5-9 years older	10+ years older*	Husband/ partner's age unknown	Total	of women aged 20- 24 years currently married/ in union
Zone														
North West North East	0.0 1.0	36.6 23.0	25.4 32.1	23.6 33.8	14.4 10.2	100 100	59 49	2.2 2.2	33.7 16.6	25.0 36.2	20.1 38.2	19.1 6.8	100 100	162 107
Central South	0.4	29.8	30.7	32.0	7.1	100	311	2.1	29.8	31.1	30.9	6.0	100	610
Residence														
Urban	0.9	28.9	29.8	32.1	8.4	100	133	0.9	26.3	33.9	29.7	9.2	100	300
Rural	0.2	30.5	30.3	30.5	8.5	100	286	2.8	30.3	29.0	29.8	8.2	100	579
Age														
15-19	0.4	30.0	30.1	31.0	8.5	100	419	na	na	na	na	na	na	na
20-24	na	na	na	na	na	na	na	2.1	28.9	30.6	29.8	8.5	100	879
Education														
None	0.7	31.8	27.2	33.4	7.0	100	252	2.0	29.4	30.9	28.3	9.4	100	541
Koranic	0.0	34.6	27.1	32.0	6.3	100	80	1.7	23.3	29.0	37.6	8.3	100	155
Primary or above	0.0	20.6	47.0	23.0	9.4	100	71	2.0	32.4	29.1	29.8	6.8	100	136
Wealth index quintil	es													
Poorest	0.0	25.7	29.7	34.5	10.0	100	67	4.3	34.6	24.5	22.4	14.2	100	143
Second	0.0	32.6	38.4	23.6	5.4	100	87	3.3	30.7	26.5	34.4	5.0	100	212
Middle	0.0	30.0	22.7	34.8	12.5	100	117	0.5	28.3	30.9	32.1	8.2	100	190
Fourth	1.9	28.5	29.5	33.7	6.4	100	87	2.7	24.4	37.4	28.1	7.5	100	170
Richest	0.0	32.8	33.9	26.7	6.7	100	61	0.0	26.9	34.0	29.5	9.6	100	164
Total	0.4	30.0	30.1	31.0	8.5	100	419	2.1	28.9	30.6	29.8	8.5	100	879

* MICS indicator 69

Table CP.6: Female genital mutilation/cutting (FGM/C)

Percentage of women aged 15-49 years who have had any form of female genital mutilation/cutting (FGM/C), type of FGM/C among those who have had FGM/C, the percentage who have had FGM/C infibulation), and the percent distribution among women who have heard of FGM/C according to attitudes towards whether the practice of FGM/C should be continued, Somalia, 2006

		Number	Percenta	ae of won	nen with FG	M/C who:				Percent	t distribution practice o	of women w of FGM/C sho	rho believe uld:	the
		women						Had an	number . of		-			
	Had any	aged	Had		Were	Form of		extreme	women			Depends		
	form of FGM/C*	15-49 years	flesh removed	Were nicked	sewn closed	FGM/C not determined	Total	form of FGM/C**	with FGM/C	Continue ***	Be dis- continued	on situation	Don't know	Total
Zone														
North West	94.4	1723	5.7	1.1	91.6	1.6	100	90.2	1626	32.3	65.9	0.5	1.4	100
North East	98.1	750	2.9	1.7	93.2	2.1	100	89.5	736	53.1	44.5	1.4	1.1	100
Central South	99.2	4291	21.0	1.4	72.2	5.5	100	69.3	4259	79.5	17.5	2.2	0.8	100
Residence														
Urban	97.1	2735	13.7	2.0	80.1	4.3	100	77.2	2656	53.8	42.5	2.2	1.5	100
Rural	98.4	4029	16.3	0.9	78.7	4.1	100	76.4	3965	71.8	26.3	1.2	0.6	100
Age														
15-19	96.7	1706	16.6	2.8	76.0	4.6	100	73.0	1650	60.4	35.8	1.9	1.9	100
20-24	97.9	1354	16.2	1.0	79.0	3.8	100	76.5	1325	62.4	35.7	1.3	0.6	100
25-29	97.9	1183	14.7	1.1	79.3	4.9	100	76.9	1158	66.0	31.3	1.7	1.0	100
30-34	98.8	822	14.4	0.7	81.4	3.5	100	78.0	812	66.3	30.5	2.2	1.0	100
35-39	98.9	798	10.3	0.6	85.2	3.9	100	83.4	789	69.3	29.3	1.2	0.1	100
40-44	97.9	580	15.9	0.4	79.5	4.2	100	76.9	568	69.7	28.4	1.4	0.4	100
45-49	99.1	320	19.1	1.2	76.7	2.9	100	76.1	317	64.3	33.5	1.8	0.4	100
Education														
None	98.0	3944	15.5	1.1	78.9	4.4	100	76.6	3867	68.6	28.9	1.6	1.0	100
Koranic	98.7	1082	16.7	1.6	78.1	3.7	100	74.8	1068	67.5	29.8	1.8	0.9	100
Primary	90.0	1040	11.7	1.5	83.2	3.6	100	81.2	1005	53.4	44.2	1.4	0.9	100
Secondary +	96.3	320	18.6	4.2	75.1	2.0	100	71.4	308	47.0	49.5	2.0	1.5	100
Non standard curriculum	98.9	250	13.6	0.0	79.5	6.9	100	75.6	247	55.4	41.7	2.0	0.9	100
Don't know/Missing	98.3	128	18.0	0.0	78.3	3.7	100	76.5	126	68.1	29.2	1.8	0.8	100
FGM/C experience														
No FGM/C	na	na	na	na	na	na	na	na	na	18.5	79.0	0.0	2.5	100
Had FGM/C	na	na	na	na	na	na	na	na	na	65.5	31.8	1.7	0.9	100
Wealth index quintiles														
Poorest	98.4	1214	18.3	0.8	76.7	4.3	100	74.5	1195	77.9	19.8	1.6	0.6	100
Second	99.1	1337	19.4	0.9	72.7	7.0	100	69.9	1325	77.6	20.5	1.4	0.5	100
Middle	98.4	1334	13.6	1.3	82.5	2.6	100	80.0	1313	67.8	30.1	1.3	0.8	100
Fourth	97.5	1373	9.2	1.2	86.7	2.9	100	84.1	1338	56.1	41.5	1.2	1.3	100
Richest	96.2	1506	16.0	2.3	77.6	4.1	100	74.9	1449	47.0	48.8	2.7	1.6	100
Total	97.9	6764	15.2	1.3	79.3	4.2	100	76.7	6621	64.5	32.8	1.6	1.0	100
* MICS indicator 63 ** MI	CS indicator	64 *** MIC	S indicator (96										

Table CP.7: Female genital mutilation/cutting (FGM/C) among daughters

Percentage of women with at least one living daughter who has had female genital mutilation/cutting (FGM/C), and the percentage by type of FGM/C of the daughters, Somalia, 2006

			Percent	age of wom	ien whose i	laughters:			
_	Daughter had any form of FGM/C*	Number of women aged 15- 49 years with at least one living daughter	Had flesh removed	Were nicked	Were sewn closed	Form of FGM/C not determined	Total	Daughter had an extreme form of FGM/C	Number of women aged 15-49 years with at least one living daughter who had FGM/C
Zone									
North West	45.3	807	28.6	8.0	52.8	10.6	100.0	51.8	365
North East	37.2	395	7.1	4.6	79.6	8.7	100.0	75.3	147
Central South	47.6	2514	26.5	4.2	63.8	5.5	100.0	59.9	1197
Kesidence									
Urban	47.7	1356	30.1	7.8	53.3	8.9	100.0	49.2	647
Rural	45.0	2360	22.3	3.4	68.7	5.6	100.0	65.8	1062
Age of woman									
15-19	0.0	156	0.0	0.0	0.0	0.0	0.0		0
20-24	3.5	591	23.6	0.0	60.0	16.4	100.0	(*)	21
25-29	21.2	828	29.1	3.2	61.3	6.3	100.0	56.2	176
30-34	50.5	654	26.8	5.5	59.9	7.7	100.0	55.3	330
35-39	71.4	689	21.9	5.6	66.8	5.7	100.0	64.1	492
40-44	84.3	516	24.6	5.6	61.8	8.0	100.0	58.6	435
45-49	90.5	283	28.4	4.1	62.3	5.2	100.0	60.2	256
Had any torm of Fuivi									
	39.4	54	25.8	4.6	42.1	27.5	100.0	(*)	21
	46.1	3662	25.3	5.1	63.1	6.6	100.0	59.7	1687
Floch romoved									
Nickod	45.7	546	65.2	5.2	25.0	4.6	100.0	21.9	249
Sown closed	(*)	27	(*)	(*)	(*)	(*)	(*)	(*)	9
Form not determined	46.5	2942	17.9	4.9	71.8	5.5	100.0	68.3	1368
Extreme form of FGM/C	41.1	147	25.6	7.2	29.5	37.6	100.0	26.7	60
Extreme									
Not extreme	44.3	806	51.9	5.6	32.2	10.3	100.0	23.4	357
Fducation	46.6	2856	18.1	4.9	71.4	5.6	100.0	69.5	1331
None	17.4	0000	05.7			0.0	400.0	04.0	4404
Koranic	47.1	2380	25.7	3.6	64.4	6.3	100.0	61.3	1121
Primarv+	43.7	563	23.9	7.5	59.3	9.4	100.0	54.8	246
Non Standard Curriculum	45.8	596	26.5	9.0	59.1	5.4	100.0	56.1	2/3
Wealth index quintiles	42.0	107	20.0	2.7	66.2	11.Z	100.0	(59.9)	45
Poorest	40.1	700	05.0	0.0			100.0	<u> </u>	054
Second	49.1	722	25.8	3.0	60.7	5.5	100.0	62.9	354
Middle	44.0	/91	21.8 1E.0	5.J	08.U	5.U 7.0	100.0	b4.Z	348
Fourth	43./	783	15.0 20.2	ა.ა ნ 1	/J.I	7.8 7.6	100.0	/0.8	34Z
Richest	40./	100	20.3 25.2	D. I	00.9 17 0	/.0 0 E	100.0	0.00	347 217
	48.0	000	30.3	9.0	47.2	0.0	100.0	42.7	317
Total	46.0	3716	25.3	5.1	62.8	6.8	100.0	59.5	1709

*MICS indicator 65

Total includes 23 women missing information on education who are not shown separately.

Figures in parenthesis are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

Table CP.7A: Age at circumcision among daughters

Percentage of women with at least one living daughter who has had female genital mutilation/cutting (FGM/C) by age at circumcision, Somalia, 2006

		Zone		Res		
	North West	North East	Central South	Urban	Non Urban	Total
Age of daughter						
0-4	4.1	4.5	6.3	7.3	4.7	5.7
5	5.0	3.9	15.1	12.9	11.3	11.9
6	10.0	16.5	20.2	17.4	17.7	17.6
7	16.9	20.0	20.2	21.5	18.2	19.4
8	21.0	19.7	17.3	17.9	18.6	18.3
9	17.0	12.6	9.4	11.0	11.5	11.3
10+	16.7	14.7	7.3	6.7	12.0	10.0
Don't know/Missing	9.3	8.0	4.2	5.2	6.0	5.7
Total	100.0	100.0	100.0	100.0	100.0	100.0
Number	365	147	1197	674	1062	1709

Table CP.8: Attitudes toward domestic violence

Percentage of ever-married women aged 15-49 years who believe a husband is justified in beating his wife/partner in various circumstances, Somalia, 2006

	Percentage of women aged 15-49 years who believe a husband is justified in beating his wife/partner:												
	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*	Number of women aged 15- 49 years						
Zone													
North West	44.6	56.0	50.9	60.3	30.3	72.6	1073						
North East	32.9	40.2	28.8	48.6	10.4	64.8	571						
Central South	59.0	59.0	56.0	68.3	31.7	78.6	3403						
Residence													
Urban	42.2	47.6	44.2	55.5	24.4	67.9	1844						
Rural	59.2	61.2	56.2	69.5	31.6	80.2	3203						
Age													
15-19	55.0	51.3	54.2	63.3	29.6	74.8	478						
20-24	54.1	58.8	52.3	66.6	28.5	77.0	991						
25-29	52.7	57.0	52.6	64.9	29.0	76.7	1086						
30-34	52.1	56.2	51.7	65.8	30.8	75.2	807						
35-39	53.2	55.6	51.0	62.3	28.8	76.2	788						
40-44	52.1	55.5	50.9	63.1	27.6	74.2	579						
45-49	50.9	56.1	48.7	61.3	27.7	73.2	318						
Marital/Union status													
Currently married	54.2	57.3	52.8	65.6	29.6	77.0	4417						
Formerly married	44.7	48.4	45.0	56.0	24.2	66.9	630						
Education													
None	56.9	61.0	56.5	68.6	32.2	79.3	3209						
Koranic	48.6	48.9	45.9	60.7	24.3	70.6	776						
Primary	46.6	47.6	42.8	54.9	24.2	70.4	654						
Secondary +	33.0	38.8	31.1	44.9	19.9	59.9	167						
Non standard curriculum	40.9	45.6	46.9	51.9	19.5	64.3	152						
Don't know/Missing	56.0	63.8	51.4	69.8	21.9	80.6	90						
Wealth index quintiles													
Poorest	62.9	66.2	56.7	73.6	35.7	84.5	937						
Second	62.1	64.5	62.4	72.9	34.4	82.6	1098						
Middle	57.8	59.6	56.9	68.5	30.8	79.6	1055						
Fourth	43.2	46.7	43.0	55.6	22.9	66.8	1021						
Richest	37.7	43.2	38.5	50.2	20.4	64.5	936						
Total	53.0	56.2	51.9	64.4	29.0	75.7	5047						

* MICS indicator 100 · but limited to ever married women

Table CP.10: Children's living arrangements and orphanhood

Percent distribution of children aged 0-17 years according to living arrangements, percentage of children aged 0-17 years in households not living with a biological parent and percentage of children who are orphans, Somalia, 2006

		Livi	ng with nei	ther par	ent	Livinę mothe	g with er only	Living w	ith father 1ly					
	Living with both parents	Only father alive	Only mother alive	Both are alive	Both are dead	Father alive	Father dead	Mother alive	Mother dead	Impossible to determine	Total	Not living with a biological parent*	One or both parents dead**	Number of children
Sex														
Male	74.5	0.6	1.0	5.1	0.8	7.7	5.7	1.9	1.1	1.6	100.	7.6	9.3	9668
Female	71.5	0.9	1.0	6.4	1.1	8.1	5.8	1.6	0.9	2.7	100.	9.4	9.7	9174
Zone														
North West	70.3	0.7	0.8	7.0	1.1	7.9	7.2	1.1	1.8	2.3	100.	9.6	11.6	4612
North East	69.7	0.8	1.4	6.9	0.7	9.9	6.4	1.4	0.5	2.3	100.	9.8	9.8	2019
Central South	74.7	0.8	1.0	5.1	1.0	7.6 5.1		2.1	0.8	2.0	100.	7.8	8.6	12210
Residence														
Urban	68.1	1.0	1.5	6.3	1.1	10.7	6.4	2.0	0.7	2.2	100.	9.8	10.8	7074
Rural	76.0	0.6	0.7	5.4	0.9	6.2	5.3	1.6	1.2	2.0	100	7.6	8.7	11768
Age														
0-4 years	82.9	0.5	0.4	3.3	0.3	8.1	2.4	1.0	0.3	0.9	100.	4.5	3.9	6506
5-9 years	74.5	0.7	1.1	6.2	0.9	7.4	5.3	2.0	0.8	1.2	100.	8.9	8.9	5826
10-14 years	66.5	1.0	1.4	7.2	1.3	8.1	8.8	2.5	1.9	1.3	100.	10.9	14.6	4404
15-17 years	52.6	1.1	1.9	9.0	2.4	8.1	10.7	1.9	2.0	10.3	100.	14.4	18.0	2107
Wealth index qu	intiles													
Poorest	78.6	0.5	0.6	4.7	0.7	5.2	5.4	1.2	1.3	1.9	100.	6.5	8.4	3912
Second	76.8	0.3	0.8	5.1	1.0	5.6	5.3	1.8	1.3	2.0	100.	7.3	8.8	3698
Middle	72.6	0.8	0.8	5.4	0.9	8.3	6.4	2.0	0.9	1.8	100.	7.9	9.9	3760
Fourth	69.3	1.3	1.4	6.4	1.5	9.1	6.3	1.7	0.7	2.5	100.	10.6	11.2	3824
Richest	67.7	0.8	1.5	7.2	0.7	11.5	5.2	2.2 0.9		2.3	100.	10.2	9.1	3647
Total	73.1	0.8	1.0	5.8	1.0	7.9	5.7	1.8	1.0	2.1	100.	8.5	9.5	18842
* MICS indicato	r 78													

** MICS indicator 75

		Total number of children aged 10- ce 14 years		2220	2183		1249	470	2684		1697	2706		981	851	836	883	852	4404
		Orphans e vs non- e orphans n school ot attendari ratio		1.15	0.89		0.88	1.28	1.06		0.96	0.92		1.17	0.61	1.16	0.91	1.0	1.02
		f School attendanc of childre who are nu orphans		30.6	28.3		53.8	30.2	18.2		52.5	15.6		6.8	10.1	22.0	46.1	66.0	29.5
		Percent of children who are not orphans		85.6	85.3		84.7	83.0	86.2		83.4	86.7		87.1	85.6	85.7	83.4	85.2	85.4
		School attendance of children who are orphaned		35.1	25.1		47.5	38.6	19.4		50.1	14.3		7.9	6.1	25.5	42.0	66.2	30.1
		Double orphans to non- orphans school attendance ratio*		0.97	0.81		0.95	1.17	0.73		0.63	1.01		5.03	1.38	0.26	0.21	1.2	0.87
	y, Somalia, 2006	School attendance rate of children of whom both parents are alive and child is living with at least one parent		30.2	27.9		54.0	29.7	18.3		52.9	15.0		6.0	9.7	21.6	46.9	67.1	29.1
hildren	and vunerability	Percent of children of whom both parents are alive and child is living with at least one parent		78.1	76.0		73.6	71.4	79.7		74.3	78.8		80.0	77.4	79.0	74.0	74.6	77.1
nd vulnerable c	by orphanhood	School attendance rate of children whose mother <u>and</u> father have died		29.2	22.7		51.5	34.8	13.3		33.3	15.2		30.1	13.4	5.7	9.8	80.2	25.4
ice of orphaned ai	aged 10-14 years	Percent of children whose mother father have died		1.1	1.6		1.2	1.3	1.4		1.9	0.9		0.5	1.6	1.0	2.3	1.3	1.3
Table CP.11: School attendar	School attendance of children		Sex	Male	Female	Zone	North West	North East	Central South	Residence	Urban	Rural	Wealth index quintiles	Poorest	Second	Middle	Fourth	Richest	Total

* MICS indicator 77; MDG indicator 20 Note; this has been calculated by orphan status only, and does not include those made vulnerable by AIDS
Table CP.12: Malnutrition among orphans and vulnerable children

Percent of children aged 0-4 years who are moderately or severely underweight, stunted or wasted by orphanhood, Somalia, 2006

	Percentage of children ag	Number of children		
	Underweight	Stunted	Wasted	aged 0-4 years
Status				
Orphaned	39.9	38.4	16.3	198
Not orphaned	35.4	37.8	10.8	5226
Total	35.6	37.8	11.0	5424
Ratio OVC to non-OVC*	1.13	1.02	1.52	

* MICS indicator 79 Note; this has been calculated by orphan status only, and does not include those made vulnerable by AIDS

Table HA.1: Knowledge of preventing HIV transmission

Percentage of women aged 15-49 years who know the main ways of preventing HIV transmission, Somalia, 2006

			Percentage can	who know to be prevented	ransmission I by:				
		Heard of AIDS	Having only one faithful uninfected sex partner	Using a condom every time	Abstaining from sex	Knows all three ways	Knows at least one way	Doesn't know any way	Number of women
Zone									
North West		82.0	58.3	22.7	43.6	11.8	70.5	29.5	1723
North East		65.8	41.7	13.2	23.2	6.0	46.7	53.3	750
Central South		58.2	25.5	12.2	14.8	2.6	35.4	64.6	4291
Residence									
Urban		87.5	50.2	25.4	32.3	8.5	65.6	34.4	2735
Rural		49.9	25.8	7.9	16.7	3.2	32.1	67.9	4029
Age									
15-19		66.7	35.9	13.4	22.0	4.6	45.3	54.7	1706
20-24		66.9	35.3	16.2	22.5	5.8	46.4	53.6	1354
25-29		65.2	37.1	15.0	24.1	5.2	47.4	52.6	1183
30-34		61.9	33.8	15.4	22.6	5.1	43.9	56.1	822
35-39		66.5	37.1	16.1	22.9	5.6	46.7	53.3	798
40-44		58.8	33.0	15.6	23.0	6.9	40.6	59.4	580
45-49		64.8	36.5	13.0	29.2	4.4	48.4	51.6	320
Education									
None		54.0	28.5	11.6	19.4	4.1	36.6	63.4	3944
Koranic		70.8	34.2	10.6	21.0	3.5	45.4	54.6	1082
Primary		87.7	53.0	23.1	32.1	8.6	65.8	34.2	1040
Secondary +		97.6	61.9	35.0	37.4	12.3	78.3	21.7	320
Non Curriculum	Standard	82.1	48.2	27.2	31.0	7.6	64.1	35.9	250
Don't know/N	lissing	59.9	37.6	15.1	26.8	7.8	44.7	55.3	128
Wealth index	quintiles								
Poorest		40.6	17.8	4.4	13.1	1.5	23.1	76.9	1214
Second		46.2	25.4	7.0	17.3	3.0	31.2	68.8	1337
Middle		61.1	33.3	11.3	20.7	4.0	41.0	59.0	1334
Fourth		78.7	43.2	20.9	28.9	7.4	56.4	43.6	1373
Richest		92.8	54.4	28.4	32.9	9.7	70.8	29.2	1506
Total		65.1	35.7	15.0	23.1	5.3	45.6	54.4	6764

	Table HA.2: Identifyin	g misconceptions	about	HIV/AIDS
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Percentage of women aged 15-49 years who correctly identify misconceptions about HIV/AIDS, Somalia, 2006

	Perce	ent who know t	hat:	Point two	Percent who know that:	
	HIV cannot be transmitted by:			most common misconceptions	Option 3: HIV	
	Option 1: Supernatural means	Option 2: Mosquito bites	A healthy looking person can be infected	and know a healthy-looking person can be infected	cannot be transmitted by sharing food	Number of women
Zone						
North West	39.4	37.8	55.6	14.9	56.1	1723
North East	37.3	30.9	41.9	16.4	38.9	750
Central South	34.1	28.4	24.5	11.6	32.1	4291
Residence						
Urban	52.8	49.8	47.8	21.7	62.4	2735
Rural	24.3	18.4	25.2	7.1	23.1	4029
Age						
15-19	39.1	33.1	35.3	15.0	40.1	1706
20-24	36.1	32.1	35.4	12.8	42.3	1354
25-29	37.3	31.1	35.9	14.1	38.6	1183
30-34	32.6	30.8	31.6	11.0	37.7	822
35-39	35.6	31.3	34.0	14.1	38.1	798
40-44	28.6	25.5	30.9	9.8	31.0	580
45-49	33.5	26.1	34.1	7.6	40.2	320
Education						
None	27.5	23.7	26.4	8.9	28.3	3944
Koranic	36.9	27.1	31.3	9.6	39.8	1082
Primary	55.8	48.7	54.3	24.9	63.0	1040
Secondary +	61.4	69.4	69.2	32.7	79.7	320
Non Standard Curriculum	51.7	42.9	44.3	19.2	52.8	250
Don't know/Missing	25.6	29.4	36.3	12.0	39.1	128
Wealth index quintiles						
Poorest	17.2	11.9	17.6	3.7	15.6	1214
Second	21.9	18.0	23.3	6.6	21.4	1337
Middle	33.3	25.2	30.6	11.1	30.5	1334
Fourth	43.3	35.6	42.7	15.0	48.0	1373
Richest	58.7	59.2	53.4	26.0	72.8	1506
Total	35.8	31.1	34.4	13.0	39.0	6764

Table HA.3: Comprehensive knowledge of HIV/AIDS transmission

Percentage of women aged 15-49 years who have comprehensive knowledge of HIV/AIDS transmission, Somalia, 2006

	Know 2 ways to prevent HIV transmission	Reject two most common misconceptions and know a healthy- looking person can be infected	Have comprehensive knowledge (identify 2 prevention methods and 3 misconceptions)*	Number of women
Zone				
North West	18.3	14.9	5.1	1723
North East	11.0	16.4	4.0	750
Central South	7.4	11.6	3.0	4291
Residence				
Urban	17.3	21.7	6.5	2735
Rural	6.0	7.1	1.7	4029
Age				
15-19	9.4	15.0	3.3	1706
15-24	11.3	12.8	4.1	1354
20-24	10.2	14.0	3.7	3060
25-29	10.7	14.1	4.1	1183
30-34	10.8	11.0	3.4	822
35-39	12.2	14.1	4.1	798
40-44	11.4	9.8	3.1	580
45-49	7.7	7.6	2.0	320
Education				
None	8.2	8.9	2.5	3944
Koranic	6.4	9.6	1.7	1082
Primary	16.7	24.9	7.2	1040
Secondary +	25.4	32.7	10.3	320
Non Standard Curriculum	20.7	19.2	7.3	250
Don't know/Missing	13.7	12.0	4.3	128
Wealth index quintiles				
Poorest	3.6	3.7	1.1	1214
Second	5.6	6.6	1.7	1337
Middle	8.8	11.1	3.1	1334
Fourth	13.5	15.0	3.6	1373
Richest	19.6	26.0	8.0	1506
Total	10.6	13.0	3.6	6764

* MICS indicator 82; MDG indicator 19b

Table HA.4: Knowledge of mother-to-child HIV transmission

Percentage of women aged 15-49 years who correctly identify means of HIV transmission from mother to child, Somalia, 2007

	Know AIDS can be	Percent who know AIDS can be transmitted:			Did not		
	transmitted from mother to child	During pregnancy	At delivery	Through breastmilk	All three ways*	know any specific way	Number of women
Zone							
North West	79.1	70.5	71.7	73.7	62.3	2.9	1723
North East	54.6	45.0	49.2	50.2	40.5	11.2	750
Central South	43.9	34.6	34.8	40.1	27.9	14.3	4291
Residence							
Urban	76.8	65.1	64.9	70.7	54.5	10.7	2735
Rural	38.6	31.2	32.8	35.6	26.9	11.3	4029
Age							
15-19	55.3	44.7	45.8	50.7	37.3	11.4	1706
20-24	55.2	46.1	45.1	50.6	37.8	11.7	1354
25-29	54.4	44.4	47.3	50.6	39.0	10.9	1183
30-34	52.9	46.0	46.9	49.2	39.9	9.0	822
35-39	55.0	47.0	47.4	51.1	40.5	11.5	798
40-44	47.5	39.4	41.8	42.9	34.1	11.4	580
45-49	54.1	44.1	43.4	49.3	35.6	10.7	320
Education							
None	42.3	34.9	35.0	38.3	29.0	11.7	3944
Koranic	56.5	45.6	48.5	52.3	39.7	14.3	1082
Primary	80.7	68.2	70.5	75.5	59.4	7.1	1040
Secondary +	93.4	81.1	82.9	87.6	69.9	4.2	320
Non Standard Curriculum	70.7	59.7	55.8	67.2	47.8	11.4	250
Don't know/Missing	49.2	37.8	41.7	46.1	31.3	10.7	128
Wealth index quintiles							
Poorest	27.8	22.6	23.7	25.3	19.5	12.8	1214
Second	37.2	29.8	30.8	33.6	24.6	9.0	1337
Middle	48.4	38.5	40.5	45.1	33.6	12.7	1334
Fourth	66.0	56.2	56.9	62.0	48.7	12.7	1373
Richest	84.3	71.6	71.5	77.1	59.2	8.5	1506
Total	54.1	44.9	45.8	49.8	38.0	11.0	6764

* MICS indicator 89

Table HA.5: Attitudes toward people living with HIV/AIDS

Percentage of women aged 15-49 years who have heard of AIDS who express a discriminatory attitude towards people living with HIV/ AIDS, Somalia, 2006

	Percent of women who:						
	Would not care for a family member who was sick with AIDS	If a family member had HIV would want to keep it a secret	Believe that a teacher with HIV should not be allowed to work	Would not buy food from a person with HIV/ AIDS	Agree with at least one discriminatory statement	Agree with none of the discriminatory statements*	Number of women who have heard of AIDS
Zone							
North West	40.2	42.6	70.5	82.7	98.1	1.9	1412
North East	51.9	20.5	76.3	81.4	95.6	4.4	494
Central South	41.5	37.4	57.7	65.8	92.5	7.5	2498
Residence							
Urban	39.2	44.1	58.9	68.1	96.1	3.9	2393
Rural	45.8	29.0	69.8	78.8	92.9	7.1	2011
Age							
15-19	41.3	39.6	63.5	69.1	94.2	5.8	1139
20-24	40.0	35.0	61.7	73.6	93.8	6.2	905
25-29	41.2	39.0	65.3	75.2	95.9	4.1	772
30-34	48.1	36.6	65.6	73.1	94.2	5.8	508
35-39	43.1	36.7	61.9	74.2	94.6	5.4	531
40-44	41.2	36.3	62.1	74.1	95.2	4.8	342
45-49	45.8	31.1	73.9	77.7	95.9	4.1	208
Education							
None	44.2	32.9	64.3	75.0	92.7	7.3	2132
Koranic	47.0	31.0	70.7	76.0	95.0	5.0	766
Primary	41.1	43.4	62.3	70.9	97.3	2.7	913
Secondary +	27.9	54.9	51.8	61.0	96.7	3.3	312
Non Standard Curriculum	34.3	48.4	59.7	67.8	96.1	3.9	205
Don't know/Missing	31.3	41.5	63.0	72.4	99.5	0.5	77
Wealth index quintiles							
Poorest	45.5	27.1	67.9	73.5	88.7	11.3	493
Second	47.3	26.4	70.6	78.2	93.8	6.2	618
Middle	43.1	35.9	65.7	78.0	93.6	6.4	815
Fourth	45.0	34.9	64.6	73.5	95.0	5.0	1081
Richest	36.2	48.1	57.9	67.1	97.4	2.6	1397
Total	42.2	37.2	63.9	73.0	94.6	5.4	4404

* MICS indicator 86

Table HA.6: Knowledge of a facility for HIV testing

Percentage of women aged 15-49 years who know where to get an HIV test, percentage of women who have been tested and, of those tested the percentage who have been told the result, Somalia, 2006

	Know a place to get tested*	Have been tested**	Number of women	lf tested, have been told result	Number of women who have been tested for HIV
Zone					
North West	34.6	6.0	1723	75.5	103
North East	18.8	3.2	750	(95.1)	24
Central South	8.1	2.4	4291	64.5	103
Residence					
Urban	27.5	5.5	2735	72.8	151
Rural	8.2	2.0	4029	72.1	79
Age					
15-19	17.0	3.5	1706	71.5	60
20-24	16.2	3.5	1354	77.0	48
25-29	16.9	3.1	1183	(81.3)	37
30-34	13.7	2.9	822	(*)	24
35-39	17.0	4.6	798	(60.5)	37
40-44	15.1	2.6	580	(*)	15
45-49	12.5	2.8	320	(*)	9
Education					
None	11.5	2.4	3944	67.7	96
Koranic	10.8	2.6	1082	(65.1)	28
Primary	27.9	5.7	1040	(78.7)	59
Secondary +	44.6	8.7	320	(78.3)	28
Non Standard Curriculum	22.5	4.2	250	(*)	11
Wealth index quintiles					
Poorest	5.7	1.5	1214	(*)	18
Second	7.3	1.2	1337	(*)	17
Middle	10.3	2.8	1334	(49.0)	37
Fourth	20.4	4.5	1373	80.0	62
Richest	33.3	6.3	1506	82.4	95
Total	16.0	3.4	6764.0	72.6	230

* MICS indicator 87

** MICS indicator 88

Total includes 9 children missing information on mother's education who are not shown separately.

Figures in parenthesis are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

Appendix A. Sample Design

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

The primary objective of the sample design for the Somali Multiple Indicator Cluster Survey was to produce statistically reliable estimates of most indicators, at the national level, for urban and rural areas, and for the three zones: North West, North East and Central South, of the country. Urban and rural areas in each of the three zones were defined as the sampling domains.

A multi-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 Somali MICS was calculated as 6000 households. For the calculation of the sample size, the key indicator used was the polio coverage among children aged 12 – 23 months. The following formula was used to estimate the required sample size for these indicators:

$$n = \frac{[4(r)(1-r)(f)(1.1)]}{[(0.12r)^2(p)(n_b)]}$$

where

- n is the required sample size, expressed as number of households
- 4 is a factor to achieve the 95 per cent level of confidence
- r is the predicted or anticipated prevalence (coverage rate) of the indicator
- 1.1 is the factor necessary to raise the sample size by 10 per cent for non-response
- f is the shortened symbol for deff (design effect)
- 0.12r is the margin of error to be tolerated at the 95 per cent level of confidence, defined as 12 per cent of r (relative sampling error of r)
- p is the proportion of the total population upon which the indicator, r, is based
- n_b is the average household size.

For the calculation, r (polio coverage) was assumed to be 33 percent. The value of deff (design effect) was taken as a default of 1.75, p (percentage of children aged 0-4 years in the total population) was taken as 3.6 percent, and n_h (average household size) was taken as 6 members per household.

The resulting number of households from this exercise was 5776 households. The average cluster size in the Somali MICS was determined as 24 households, based on a number of considerations, including 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 households per cluster, it was calculated that the selection of a total number of 250 clusters would be needed. Of these 130 clusters were allocated to the Central South Zone and 60 clusters in the North West and North East Zone respectively.

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.

Sampling Frame and Selection of Clusters

Whilst perfect sampling frames are rarely encountered in practice anywhere, Somalia presents a particular challenge. Without a published census for more than 40 years and without a central statistical authority collecting data on a regular basis, Somalia lacks the basic tenets that a conventional cluster sampling approach is built on. However, in recent years, UN agencies have made progress towards compiling population estimates and collating settlement data. From drawing on these sources and engaging with local partners it was possible for UNICEF to create a sample design which made efforts to achieve a nationally representative sample giving Somalia the opportunity to partake in the MICS3.

The design follows a 4 stage-sample approach. The first stage is the selection of the districts in each of the 18 regions of the country selected using probability proportional to size (pps)¹⁴. The second stage is the selection of the secondary sampling units which are defined as permanent and temporary settlements. The third stage is the selection of the cluster(s) within the settlement and the fourth stage is the selection of the households to be interviewed.

Once the districts had been selected great efforts went into compiling a complete list of permanent and temporary settlements within these districts. The main source was the WHO immunisation campaign data, this data was later backed up by the UNDP settlement survey for at least two out of the three zones. Other sources also contributed such as FAO data on water points which could act as proxy for surrounding nomadic areas and temporary settlements. Finally lists were shown to the NGO partners implementing the survey and UNICEF staff on the ground for additional contributions to recent movement of internally displaced persons and nomads. The settlement lists were then sorted into urban and non urban. The first two stages of sampling were thus completed by selecting the required number of clusters from each of the 3 zones by urban and rural areas separately.

Mapping and Listing Activities

For settlements over the estimated size of 150 households some form of segmentation through sketch mapping was necessary. For several district capitals it was possible to use maps from UN Habitat to assist the personnel deployed in sketch mapping. However for most of the larger non-urban settlements there were no maps available. The most important aspect of the sketch mapping was to divide the settlements into roughly equal sizes by estimating the number of households and to clearly delineate the segments using identifiable boundaries.

Once sketch maps were prepared survey coordinators were then in a position to randomly select the cluster(s) where household would be selected. It must be added at this point that finding people trained in cartographic techniques is rare in Somalia. Thus the quality of the maps varied significantly across the country and resources and time also did not allow for a full household count.

¹⁴ It should be noted that the decision to distribute an equal number of clusters to the two northern zones of the country was to avoid political disputes over population figures. From thereon however the pps method was adhered to.

Selection of Households

For the final stage of sampling, the Somali MICS had no other option than to use the method used in MICS2 of the Expanded Program for Immunization (EPI) random walk method; the expense of household/dwelling listing would simply be too considerable.

Whilst the EPI method is quick and approximately self-weighting, it is recognised that this is not a probability sample, and so cannot ensure objectivity of household selection. However with an experienced team it is argued that the EPI method can still produce near accurate results. In order to try and avoid the subjectivity involved in selecting households some measures were put in place. For example instead of relying on an arbitrary decision regarding the central point of a cluster, supervisors selected at least three or four possible starting points and then randomly choose one of them. Moreover only supervisors were able to select and number the households, not interviewers. Significant time was spent training supervisors on how to select households in order to avoid some of the criticisms typically directed towards this method.

For clusters falling in nomadic areas (the temporary settlements) the survey teams were instructed to interview the first 24 households that they came across. Typically nomads do not move in large numbers, therefore in order to ensure representation of nomads in the sample it was necessary to assume a more purposive method of sampling for this group.

Calculation of Sample Weights

The Somalia Multiple Indicator Cluster Survey sample is not self-weighted. Essentially, by allocating equal numbers of households to each of the zones in the North, different sampling fractions were used in each zone since the size of the zones varied. For this reason, sample weights were calculated at the regional level 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 domain:

$$W_{h} = 1 / f_{h}$$

The term fh, the sampling fraction at the h-th stratum, is the product of probabilities of selection at each sampling domain:

$$f_{h} = P_{1h} * P_{2h}$$

where P_{ih} is the probability of selection of the sampling unit in the i-th stage for the h-th sampling domain.

A second component which has to be taken into account in the calculation of sample weights is 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 = Number of interviewed households / Number of occupied households listed

After the completion of fieldwork, response rates were calculated for each sampling domain. These were used to adjust the sample weights calculated for each cluster. Response rates in the Somali 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) is equal to the inverse value of:

RR = Completed women's (or under-5's) questionnaires / Eligible women (or under-5s)

Numbers of eligible women and under-5 children were obtained from the household listing in the Household Questionnaire in households where interviews were completed.

The unadjusted 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 sum of the interviewed sample units equal the total sample size at the national level. Normalization is performed by multiplying the aforementioned unadjusted weights by the ratio of the number of completed households to the total unadjusted weighted number of households. A similar standardization procedure was followed in obtaining standardized weights for the women's and under-5's questionnaires. Adjusted (normalized) weights varied between 0.3 and 2.5 in the 250 clusters.

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

Appendix B. List of Personnel Involved in the Survey

North West Zone	
Coordinator	Abdikariim Hassan Ismail
Sketch Mapping Assistants	Farhan Mahamed Ahmed
	Cabdikariim Elmi Jaama
	Ahmedyasin Mahamoud Ibraahim
	Hoodo Ahmed Jama
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	Faadumo Daahir
	A/hakin Muumin Cige
	Nimco H. muumin
	Jawhara Mahamed Tube
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	Mutafe Mahamed Daahir
	Nicima Mahamed Muse
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	Saynab Hassan Ahmed
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	Aden Yusuf Qodax
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	Ayaan Hussien Ahmed
	Asma Ismail Abokor
	Mahamoud Omar Hussien
	Hodan Ahmed Jama
	c/raman Issak Ali
	Aniisa Ahmed Aden
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	Aamina Faysal Mahamed
	A/karin Ibrahin Mahamed
	Nuuradin Mahamud Ahmed
	Khadra Mahamoud Abdi
	Umalkhayr Ahmed
	Nagiib Mahamed Jama
	Nawal Faysal Mahamoud
Sool/Sanag Regions	
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Interviewers	Ahmed Mahamed Tani
	ShafeecoMahamed Farah
	Fadumo Ismail C/rahman
	Fadumo Ali Ahmed
	Fadumo Hussien Ahmed
	Muse Farah Duale
	Mahamed Ahmed Ali
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Interviewers	Abdikarim Farah Mohammed
	Deqa Ali Hirsi
	Bashir Ahmed Dad
	Safiya Abdi Ahmed
	Omar Sahal Hirsi
	Farhiya Ali Hussein

Ahmed Mohammed Tunni Mohammed Hirsi Omar

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	Moumino Mohammed Osman
	Abdirizak Nadif Ahmed
	Halima Ahmed Abdi
	Fartun Osman Ali
	Abdirashid Mohammed Barre
	Abdirahman Khalif Salah
	Jama Mohammed Khurshe
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	Maryan Ali Ismail
	Anab Ali Shire
	Abdiwali Mohammed Diriye
	Hinda Muse Isse
	Hiddig Abdi Ilmi
	Abdulkadir Hassan Ahmed
	Abdifitah M. Artan
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	Abdibashi Mohammed Barkhadle
	Halima Mohammed Abdi
	Ahmed Abdi Hussein
	Hani Aden Seed
	Abdiwali Aw-Jama
	Fa'isa Ahmed Mohammed
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	Yasin Gelle Warsame
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	Hassan Hirsi Farah
	Said Abdi Ali-Kaar
	Saynab Jama Ismail

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	Mohamed Aden Abdi
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	Fartun Abdullahi Ibrahim
	Bishaaro Daadle Ahmed
	Mohamed Ahmed Nur
	Nur Haaji Ayaanle
	ljaabo Aden Abdulle
Lower Shabelle	
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	Ali Mohamed Haji
	Raliya Omar Moallim
	Hibo Mohamed Abukar
	Abdurahman Sheikh Mahi Yuusuf
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	Abdiqani Muhumed Hussein
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	Ibrahim Sharif Mumin
	Abukar Abdullahi Tifow
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	Shamo Dhaqane Mohamud
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	Rabico Mohamud Mohamed
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Editor	Ahmed Abdi Aden
Interviewers	Ubah Ali Bashir
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	Zakaria Abikar Dhaqane
	Sahra Moallin Mohamed
	Udbi Hashi Kedie
	Isse Haji Hassan
	Abdirashid Haji Abdi

Appendix C. Estimates of Sampling Errors

The sample of respondents selected in the Somali Multiple Indicator Cluster Survey is only one of the samples that could have been selected from the same population, using the same design and size. Each of these samples would yield results that differ somewhat from the results of the actual sample selected. Sampling errors are a measure of the variability between all possible samples. The extent of variability is not known exactly, but can be estimated statistically from the survey results.

The following sampling error measures are presented in this appendix for each of the selected indicators:

- Standard error (se): Sampling errors are usually measured in terms of standard errors for particular indicators (means, proportions etc). Standard error is the square root of the variance. The Taylor linearization method is used for the estimation of standard errors.
- Coefficient of variation (se/r) is the ratio of the standard error to the value of the indicator
- Design effect (deff) is the ratio of the actual variance of an indicator, under the sampling method used in the survey, to the variance calculated under the assumption of simple random sampling. The square root of the design effect (deft) is used to show the efficiency of the sample design. A deft value of 1.0 indicates that the sample design is as efficient as a simple random sample, while a deft value above 1.0 indicates the increase in the standard error due to the use of a more complex sample design.
- Confidence limits are calculated to show the interval within which the true value for the population can be reasonably assumed to fall. For any given statistic calculated from the survey, the value of that statistics will fall within a range of plus or minus two times the standard error (p + 2.se or p 2.se) of the statistic in 95 percent of all possible samples of identical size and design.

For the calculation of sampling errors from MICS data, SPSS Version 14 Complex Samples module has been used. The results are shown in the tables that follow. In addition to the sampling error measures described above, the tables also include weighted and unweighted counts of denominators for each indicator.

Sampling errors are calculated for indicators of primary interest, for the national total, for the regions, and for urban and rural areas. Three of the selected indicators are based on households, 7 are based on household members, 11 are based on women, and 15 are based on children under 5. All indicators presented here are in the form of proportions. Table SE.1 shows the list of indicators for which sampling errors are calculated, including the base population (denominator) for each indicator. Tables SE.2 to SE.7 show the calculated 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, Somalia, 2006

MICS	Indicator	Base Population
	HOUSE	HOLDS
30	Household availability of insecticide treated nets	All households
-	Household availability of bed nets	All households
41	lodized salt consumption	All households
	HOUSEHOLD	MEMBERS
11	Use of improved drinking water sources	All household members
12	Use of improved sanitation facilities	All household members
55	Net primary school attendance rate	Children of primary school age
56	Net secondary school attendance rate	Children of secondary school age
59	Primary completion rate	Children of primary school completion age
71	Child labour	Children aged 5-14 years
75	Prevalence of orphans	Children aged under 18
	WON	/EN
4	Skilled attendant at delivery	Women aged 15-49 years with a live birth in the last 2 years
20	Antenatal care	Women aged 15-49 years with a live birth in the last 2 years
21	Contraceptive prevalence	Women aged 15-49 currently married/in union
60	Adult literacy	Women aged 15-24 years
63	Prevalence of female genital mutilation/cutting (FGM/C)	Women aged 15-49 years
67	Marriage before age 18	Women aged 20-49 years
70	Polygyny	Women aged 15-49 years currently married or in union
82	Comprehensive knowledge about HIV prevention among young people	Women aged 15-24 years
86	Attitude towards people with HIV/AIDS	Women aged 15-49 years
88	Women who have been tested for HIV	Women aged 15-49 years
89	Knowledge of mother- to-child transmission of HIV	Women aged 15-49 years
	UNDE	R-5s
6	Underweight prevalence	Children under age 5
25	Tuberculosis immunization coverage	Children aged 12-23 months
26	Polio immunization coverage	Children aged 12-23 months
27	Immunization coverage for DPT	Children aged 12-23 months
28	Measles immunization coverage	Children aged 12-23 months
31	Fully immunized children	Children aged 12-23 months
-	Acute respiratory infection in last two weeks	Children under age 5
22	Antibiotic treatment of suspected pneumonia	Children under age 5 with suspected pneumonia in the last 2 weeks
-	Diarrhoea in last two weeks	Children under age 5
35	Received ORT or increased fluids and continued feeding	Children under age 5 with diarrhoea in the last 2 weeks
37	Under-fives sleeping under insecticide treated nets	Children under age 5
-	Fever in last two weeks	Children under age 5
39	Antimalarial treatment	Children under age 5 with fever in the last 2 weeks
46	Support for learning	Children under age 5
62	Birth registration	Children under age 5

Table SE.2: Sampling errors: Total sample

						Square			Confider	nce limits
		Value	Standard	Coefficient of variation	Design effect	root of design effect	Weighted	Unweighted		
	Table	(<i>r</i>)	error (<i>se</i>)	(<i>se/r</i>)	(deff)	(deft)	count	count	r - 2se	r + 2se
				HOUSEHOLI	OS					
Household availability of ITNs	CH.11	0.122	0.007	0.058	2.831	1.683	5969	5969	0.107	0.136
Percentage of households with at	01111	0.221	0.000	0.041	2 022	1 000	E000	E000	0 202	0 220
least one mosquito net		0.221	0.009	0.041	2.833	1.083	5909	5525	0.203	0.239
	N0.5	0.013	0.002		MRERS	1.142	3303	JJZJ	0.010	0.010
Use of improved drinking water				TIOUSLITULD IVIL	IVIDLI13					
sources	EN.1	0.291	0.017	0.060	8.791	2.965	33959	5969	0.257	0.326
Use of improved sanitation facilities	EN.5	0.373	0.013	0.034	4.051	2.013	33959	5969	0.348	0.399
Net primary school attendance rate Net secondary school attendance	ED.3	0.230	0.011	0.049	5.378	2.319	7674	7614	0.207	0.252
rate	ED.4	0.070	0.007	0.104	2.507	1.583	3085	3051	0.056	0.085
Primary completion rate	ED.6	0.043	0.007	0.151	0.812	0.901	789	788	0.030	0.057
Child labour	CP.2	0.490	0.010	0.021	4.397	2.097	10230	10158	0.469	0.511
Prevalence of orphans	CP.10	0.095	0.005	0.049	4.661	2.159	18842	18620	0.086	0.104
				WOMEN						
Skilled attendant at delivery	RH.5	0.330	0.011	0.035	1.373	1.172	2325	2326	0.307	0.353
Antenatal care	RH.3	0.261	0.010	0.039	1.270	1.127	2325	2326	0.241	0.282
Contraceptive prevalence	KH.1	0.14/	0.006	0.043	1.391	1.1/9	441/	4400	0.135	0.160
Adult literacy Prevalence of female genital	ED.8	0.250	0.012	0.049	2.457	1.567	3060	3069	0.226	0.275
mutilation/cutting (FGM/C)	CP.6	0.979	0.002	0.002	1.447	1.203	6764	6764	0.975	0.983
Marriage before age 18	CP.4	0.460	0.009	0.020	1.644	1.282	5058	5069	0.442	0.478
Polygyny	CP.4	0.229	0.007	0.031	1.248	1.117	4417	4400	0.215	0.243
Comprehensive knowledge about HIV prevention among young people Attitude towards people with HIV/	HA.3	0.036	0.003	0.080	1.651	1.285	6764	6764	0.031	0.042
AIDS Women who have been tested	HA.5	0.054	0.004	0.068	1.157	1.076	4404	4431	0.046	0.061
for HIV	HA.6	0.034	0.002	0.070	1.174	1.084	6764	6764	0.029	0.039
transmission of HIV	HA.4	0.380	0.009	0.024	2.379	1.542	6764	6764	0.362	0.399
				UNDER-5	3					
Underweight prevalence	NU.1	0.356	0.009	0.025	1.854	1.362	5424	5367	0.338	0.373
Tuberculosis immunization coverage	CH.2	0.299	0.018	0.060	1.695	1.302	1079	1089	0.263	0.335
Polio immunization coverage	CH.2	0.386	0.017	0.043	1.247	1.117	1055	1064	0.353	0.420
Immunization coverage for DPT	CH.2	0.142	0.013	0.091	1.500	1.225	1078	1089	0.116	0.168
Measles immunization coverage	CH.2	0.294	0.017	0.059	1.571	1.253	1063	1073	0.259	0.329
Fully immunized children Acute respiratory infection in last	CH.2	0.117	0.012	0.103	1.523	1.234	1075	1087	0.093	0.141
two weeks Antibiotic treatment of suspected	CH.6	0.148	0.006	0.042	1.901	1.379	6305	6305	0.136	0.161
pneumonia	CH.7	0.324	0.021	0.064	1.638	1.280	935	838	0.282	0.365
Diarrhoea in last two weeks Received ORT or increased fluids	CH.4	0.212	0.006	0.029	1.428	1.195	6305	6305	0.199	0.224
and continued feeding Under-fives sleeping under	CH.5	0.068	0.007	0.103	0.949	0.974	1334	1232	0.054	0.081
insecticide treated nets	CH.12	0.092	0.008	0.083	4.443	2.108	6305	6305	0.077	0.107
Fever in last two weeks	CH.13	0.218	0.007	0.033	1.935	1.391	6305	6305	0.204	0.233
Antimalarial treatment	CH.13	0.029	0.005	0.158	0.942	0.970	1376	1288	0.020	0.038
Support for learning	CD.1	0.651	0.009	0.014	2.2/6	1.509	6305	6305	0.633	0.669
DITUTTEQISTIATION	UP.1	0.030	0.003	0.088	1.509	1.228	6305	6305	0.025	0.035

Table SE.3: Sampling errors: Urban

						Square			Confider	nce limits
				Coofficient	Design	root of				
		Value	Standard	of variation	effect	effect	Weighted	Unweighted		
	Table	(<i>r</i>)	error (<i>se</i>)	(<i>se/r</i>)	(deff)	(deft)	count	count	r - 2se	r + 2se
				HOUSEHOLDS						
Household availability of ITNs	CH.11	0.164	0.012	0.075	2.451	1.565	2113	2222	0.140	0.189
Percentage of households with at least one										
mosquito net	CH.11	0.269	0.015	0.056	2.588	1.609	2113	2222	0.239	0.299
lodized salt consumption	NU.5	0.018	0.002	0.089	0.316	0.562	2030	2128	0.015	0.022
			HOUS	SEHOLD MEMBER	S					
Use of improved drinking water sources	EN.1	0.583	0.029	0.049	7.516	2.742	12945	2222	0.526	0.641
Use of improved sanitation facilities	EN.5	0.775	0.020	0.025	4.863	2.205	12945	2222	0.736	0.814
Net primary school attendance rate	ED.3	0.411	0.018	0.045	4.134	2.033	2876	2950	0.374	0.447
Net secondary school attendance rate	ED.4	0.141	0.016	0.110	2.774	1.666	1367	1390	0.110	0.172
Primary completion rate	ED.6	0.061	0.012	0.189	0.746	0.864	314	322	0.038	0.084
Child labour	CP.2	0.361	0.016	0.044	4.195	2.048	3803	3901	0.330	0.393
Prevalence of orphans	CP.10	0.108	0.008	0.072	4.535	2.129	7074	7214	0.092	0.123
				WOMEN						
Skilled attendant at delivery	RH.5	0.650	0.024	0.037	2.205	1.485	852	868	0.602	0.698
Antenatal care	RH.3	0.455	0.020	0.043	1.360	1.166	852	868	0.416	0.495
Contraceptive prevalence	RH.1	0.172	0.011	0.066	1.447	1.203	1551	1587	0.149	0.195
Adult literacy	ED.8	0.449	0.020	0.046	2.319	1.523	1331	1366	0.408	0.490
Prevalence of female genital mutilation/	CPG	0 071	0.004	0.005	1 025	1 201	2725	2770	0.962	0.980
Marriage before age 18		0.371	0.004	0.003	1.000	1.001	1060	2005	0.302	0.300
Polygypy	CP /	0.410	0.013	0.032	0.664	0.815	1551	1587	0.304	0.430
Comprehensive knowledge about HIV	01.4	0.210	0.000	0.040	0.004	0.015	1551	1307	0.155	0.227
prevention among young people	HA.3	0.065	0.006	0.089	1.512	1.230	2735	2779	0.053	0.076
Attitude towards people with HIV/AIDS	HA.5	0.039	0.004	0.105	1.096	1.047	2393	2445	0.031	0.047
Women who have been tested for HIV	HA.6	0.055	0.004	0.073	0.858	0.926	2735	2779	0.047	0.063
Knowledge of mother- to-child transmission										
of HIV	HA.4	0.545	0.015	0.028	2.616	1.617	2735	2779	0.514	0.575
				UNDER-5s						
Underweight prevalence	NU.1	0.228	0.012	0.054	1.696	1.302	1992	2001	0.203	0.252
Tuberculosis immunization coverage	CH.2	0.470	0.035	0.075	2.064	1.437	406	419	0.399	0.540
Polio immunization coverage	CH.2	0.538	0.024	0.045	0.961	0.980	393	404	0.490	0.587
Immunization coverage for DPT	CH.2	0.264	0.027	0.102	1.556	1.247	406	418	0.210	0.317
Measles immunization coverage	CH.2	0.404	0.033	0.083	1.875	1.369	394	406	0.337	0.470
Fully immunized children	CH.2	0.219	0.025	0.115	1.529	1.237	402	415	0.169	0.269
Acute respiratory infection in last two weeks	CH.6	0.139	0.009	0.067	1.682	1.297	2254	2317	0.120	0.157
Antibiotic treatment of suspected pneumonia	CH.7	0.490	0.034	0.070	1.319	1.148	313	280	0.421	0.559
Diarrhoea in last two weeks	CH.4	0.169	0.010	0.057	1.545	1.243	2254	2317	0.149	0.188
Received ORT or increased fluids and continued feeding	CH.5	0.088	0.013	0.147	0.748	0.865	380	360	0.062	0.113
Under-fives sleeping under insecticide treated nets	CH.12	0.146	0.016	0.108	4.676	2.162	2254	2317	0.115	0.178
Fever in last two weeks	CH.13	0.158	0.010	0.061	1.628	1.276	2254	2317	0.139	0.177
Antimalarial treatment	CH.13	0.070	0.013	0.191	0.918	0.958	356	338	0.043	0.096
Support for learning	CD.1	0.672	0.017	0.025	2.948	1.717	2254	2317	0.639	0.706
Birth registration	CP.1	0.056	0.006	0.099	1.355	1.164	2254	2317	0.045	0.068

Table SE.4: Sampling errors: Rural

								Confiden	ce limits	
				Coefficient	Design	Square root				
		Value	Standard	of variation	effect	effect	Weighted	Unweighted		
	Table	(<i>r</i>)	error (<i>se</i>)	(<i>se/r</i>)	(deff)	(deft)	count	count	r - 2se	r + 2se
				HOUSEHOLDS						
Household availability of ITNs	CH.11	0.098	0.009	0.089	3.209	1.791	3856	3747	0.081	0.116
Percentage of households with at least										
one mosquito net	CH.11	0.010	0.003	0.265	2.351	1.533	3472	3397	0.005	0.015
lodized salt consumption	NU.5	0.195	0.011	0.058	3.031	1.741	3856	3747	0.172	0.217
HOUSEHOLD MEMBERS										0.455
Use of improved drinking water sources	EN.I	0.112	0.021	0.192	94.294	9.711	21014	20292	0.004	0.155
Use of improved sanitation facilities	EIN.5	0.120	0.014	0.125	45.738	0.703	21014	20292	0.094	0.157
Net primary school attendance rate	ED.3	0.121	0.014	0.115	8.530	2.921	4/98	4664	0.093	0.149
Net secondary school attendance rate	ED.4	0.014	0.003	0.203	0.983	0.991	1/18	1001	0.008	0.020
Primary completion rate	ED.b	0.032	0.008	0.0242	0.900	0.949	4/6	400	0.010	0.047
	UP.Z	0.007	0.012	0.021	3.304	1.010	12224	38/4 11025	0.072	0.004
	GP.10	0.083	0.000	U.U00	4.782	Z.187	12324	11930	0.072	0.094
Skilled attendant at delivery	BH 5	0.1/15	0.011	0.07/	1 371	1 171	1/72	1//58	0.124	0 167
		0.140	0.011	0.074	1.371	1.171	1472	1450	0.124	0.107
	RH 1	0.143	0.011	0.075	1.334	1.104	2866	2813	0.120	0.171
	FD 8	0.134	0.007	0.030	2 607	1.102	1730	1703	0.113	0.143
Provalence of female genital mutilation/	LD.0	0.000	0.012	0.121	2.007	1.042	1750	1705	0.074	0.121
cutting (FGM/C)	CP.6	0.984	0.002	0.002	0.820	0.905	4029	3985	0.981	0.988
Marriage before age 18	CP.4	0.524	0.021	0.040	1.348	1.161	790	782	0.483	0.566
Polygyny	CP.4	0.239	0.010	0.041	1.514	1.231	2866	2813	0.219	0.258
Comprehensive knowledge about HIV										
prevention among young people	HA.3	0.017	0.003	0.168	1.978	1.406	4029	3985	0.011	0.023
Attitude towards people with HIV/AIDS	HA.5	0.071	0.006	0.089	1.214	1.102	2011	1986	0.058	0.084
Women who have been tested for HIV	HA.6	0.020	0.003	0.151	1.822	1.350	4029	3985	0.014	0.026
Knowledge of mother- to-child		0.000	0.040	0.040	0.004	4.044	4000	0005	0.040	0.000
transmission of HIV	HA.4	0.269	0.012	U.U43	2.694	1.641	4029	3985	0.246	0.292
Underweight provolonce	NILL 1	0 420	0.012	0.020	1 060	1 402	2422	2266	0.406	0.454
		0.430	0.012	0.020	1.900	1.405	343Z 677	5300	0.400	0.404
Polic immunization coverage	СП.2	0.195	0.019	0.037	1.001	1.240	077	070	0.107	0.200
		0.290	0.021	0.072	1.430	1.190	677	675	0.240	0.002
Modelos immunization coverage		0.000	0.013	0.105	1.075	1.204	677	675	0.043	0.033
Fully immunized children	СH 2	0.227	0.013	0.004	1.400	1.105	677	675	0.103	0.200
Acute receivatory infaction in last two	011.2	0.000	0.012	0.207	1.720	1.012	077	0/5	0.000	0.000
weeks	CH.6	0.154	0.008	0.053	2.006	1.416	4051	3988	0.137	0.170
Antibiotic treatment of suspected										
pneumonia	CH.7	0.240	0.023	0.094	1.557	1.248	622	558	0.195	0.285
Diarrhoea in last two weeks	CH.4	0.235	0.008	0.033	1.366	1.169	4051	3988	0.220	0.251
Received ORT or increased fluids and continued feeding	CH.5	0.060	0.008	0.139	1.064	1.031	954	872	0.043	0.076
Under-fives sleeping under insecticide treated nets	CH.12	0.062	0.008	0.133	4.623	2.150	4051	3988	0.045	0.078
Fever in last two weeks	CH.13	0.252	0.010	0.039	2.026	1.423	4051	3988	0.232	0.271
Antimalarial treatment	CH.13	0.014	0.004	0.277	1.043	1.021	1020	950	0.006	0.022
Support for learning	CD.1	0.639	0.011	0.017	1.923	1.387	4051	3988	0.618	0.660
Birth registration	CP.1	0.015	0.003	0.172	1.836	1.355	4051	3988	0.010	0.021

Table SE.5: Sampling errors: North West

	Square						Confidence limits			
				Coefficient	Docian	root of				
		Value	Standard	variation	effect	effect	Weighted	Unweighted		
	Table	(<i>r</i>)	error (<i>se</i>)	(<i>se/r</i>)	(deff)	(deft)	count	count	r - 2se	r + 2se
			H	OUSEHOLDS						
Household availability of ITNs	CH.11	0.091	0.008	0.091	1.168	1.081	1455	1411	0.075	0.108
Percentage of households with at least one										
mosquito net	CH.11	0.283	0.017	0.061	2.074	1.440	1455	1411	0.249	0.318
lodized salt consumption	NU.5	0.007	0.002	0.311	0.903	0.950	1374	1336	0.003	0.011
	5114		HOUSE	HOLD MEMBERS	5					
Use of improved drinking water sources	EN.1	0.403	0.041	0.103	10.093	3.177	8616	1411	0.320	0.486
Use of improved sanitation facilities	EN.5	0.400	0.028	0.070	4.636	2.153	2000	1411	0.344	0.456
Net primary school attendance rate	ED.3	0.452	0.027	0.000	0.UZI	2.404	2000	2000	0.397	0.500
Primary completion rate	ED.4	0.001	0.015	0.130	2.002	0.040	0//	220	0.000	0.141
	CP 2	0.001	0.015	0.240	1 260	2.066	232	220	0.031	0.091
Prevalence of ornhans	CF 10	0.333	0.013	0.034	4.203	2.000	2742 //612	2000	0.320	0.337
	01.10	0.110	0.010	WOMEN	4.707	2.100	4012	4407	0.035	0.137
Skilled attendant at delivery	BH 5	0 413	0.026	0.063	1 192	1 092	496	432	0.361	0 465
Antenatal care	RH.3	0.318	0.023	0.071	1.022	1.011	496	432	0.273	0.364
Contraceptive prevalence	RH.1	0.256	0.020	0.079	1.787	1.337	943	830	0.215	0.296
Adult literacy	ED.8	0.355	0.029	0.081	2.634	1.623	803	723	0.297	0.413
Prevalence of female genital mutilation/										
cutting (FGM/C)	CP.6	0.944	0.007	0.007	1.425	1.194	1723	1541	0.930	0.958
Marriage before age 18	CP.4	0.278	0.017	0.060	1.572	1.254	1269	1135	0.244	0.311
Polygyny	CP.4	0.167	0.011	0.068	0.766	0.875	943	830	0.144	0.189
Comprehensive knowledge about HIV		0.054		0.405	4 004	4 4 9 9	1700			
prevention among young people	HA.3	0.051	0.006	0.125	1.291	1.136	1723	1541	0.038	0.063
Attitude towards people with HIV/AIDS	HA.5	0.019	0.004	U.23b	1.369	1.170	1412	12/3	0.010	0.028
Vyomen who have been tested for HIV	HA.b	0.060	0.007	0.118	1.369	1.170	1723	1541	0.045	0.074
of HIV	HA.4	0.623	0.024	0.038	3.705	1.925	1723	1541	0.575	0.670
				UNDER-5s						
Underweight prevalence	NU.1	0.182	0.018	0.100	1.888	1.374	878	853	0.145	0.218
Tuberculosis immunization coverage	CH.2	0.367	0.038	0.104	1.509	1.229	250	240	0.290	0.444
Polio immunization coverage	CH.2	0.351	0.034	0.098	1.201	1.096	243	233	0.282	0.420
Immunization coverage for DPT	CH.2	0.048	0.013	0.263	0.833	0.913	247	238	0.023	0.074
Measles immunization coverage	CH.2	0.332	0.034	0.102	1.211	1.101	246	236	0.264	0.399
Fully immunized children	CH.2	0.033	0.011	0.339	0.937	0.968	250	240	0.011	0.055
Acute respiratory infection in last two weeks	CH.6	0.066	0.011	0.164	2.288	1.512	1244	1204	0.044	0.088
Antibiotic treatment of suspected										
pneumonia	CH.7	0.277	0.046	0.166	0.784	0.886	82	75	0.185	0.370
Diarrhoea in last two weeks	CH.4	0.131	0.012	0.089	1.435	1.198	1244	1204	0.108	0.154
Received URI or increased fluids and continued feeding	CH.5	0.159	0.029	0.184	1.009	1.005	163	158	0.101	0.218
Under-fives sleeping under insecticide treated nets	CH.12	0.075	0.012	0.156	2.361	1.537	1244	1204	0.052	0.098
Fever in last two weeks	CH.13	0.094	0.010	0.108	1.451	1.204	1244	1204	0.074	0.115
Antimalarial treatment	CH.13	0.016	0.011	0.697	0.870	0.933	117	112	0.000	0.038
Support for learning	CD.1	0.690	0.019	0.028	2.061	1.436	1244	1204	0.652	0.728
Birth registration	CP.1	0.066	0.011	0.158	2.149	1.466	1244	1204	0.045	0.088

Table SE.6: Sampling errors: North East

	Square						Confidence limits			
				0 17 1	D .	root of				
		Value	Standard	Coefficient	Design	design	Woightod	Upwoighted		
	Table	(<i>r</i>)	error (<i>se</i>)	(<i>se/r</i>)	(deff)	(deft)	count	count	r - 2se	r + 2se
			H	DUSEHOLDS						. <u></u>
Household availability of ITNs	CH.11	0.126	0.017	0.136	3.844	1.961	687	1440	0.092	0.161
Percentage of households with at least one										
mosquito net	CH 11	0.350	0.026	0.071	1 006	2 02/	687	1///0	0 307	0.410
Indized salt consumption	NIL 5	0.000	0.020	0.3/1	4.050	1 308	642	13/7	0.007	0.410
	110.5	0.012			1.555	1.550	042	1347	0.004	0.021
Use of improved drinking water sources	EN 1	0.243	0.032	0 131	7 886	2 808	3535	1440	0 180	0.307
Use of improved senitation facilities	EN 5	0.243	0.034	0.078	6.810	2.000	3535	1440	0.360	0.507
Nat primary school attendance rate	EN.3	0.437	0.034	0.070	8 3//	2.010	825	1721	0.303	0.303
Not socondary school attendance rate	ED A	0.201	0.031	0.160	1 744	1 221	210	657	0.200	0.322
Primary completion rate	ED.4	0.000	0.014	0.105	0.860	0.032	8/	177	0.000	0.006
Child Jahour	CP 2	0.002	0.017	0.274	0.003 5 550	2 250	1112	2221	0.020	0.030
Browelence of orphone	CR 10	0.472	0.024	0.002	J.JJJ 4 E2E	2.330	2010	1000	0.423	0.117
	GF.10	0.090	0.010	0.099	4.020	2.127	2019	4220	0.076	0.117
Chilled attandant at delivery	DUE	0.200	0.022		1 001	1 110	200	E04	0.224	0.412
	пп.э вц э	0.300	0.022	0.000	1.231	1.110	209	504	0.324	0.413
	пп.3 ПЦ 1	0.200	0.022	0.087	1.309	1.228	209	384	0.212	0.301
	HH.I	0.120	0.000	0.094	1.283	1.133	490	1063	0.097	0.142
Adult literacy	ED.8	0.324	0.032	0.099	3.516	1.8/5	344	/54	0.260	0.388
Prevalence of female genital mutilation/	CPG	0.001	0.004	0.004	1 65/	1 206	750	1620	0 072	0 000
Marriago boforo ago 19		0.301	0.004	0.004	1.004	1.200	7 50	1220	0.373	0.330
	CD 4	0.320	0.015	0.040	1.240	1.110	303	1000	0.291	0.000
Comprohensive knowledge about HIV	UF.4	0.237	0.015	0.057	1.197	1.094	490	1005	0.227	0.200
prevention among young people	НА З	0.040	0.011	0.268	4 877	2 208	750	1638	0.019	0.061
Attitude towards people with HIV/AIDS	HA 5	0.040	0.011	0.200	1 244	1 115	7 90 494	1000	0.013	0.001
Women who have been tested for HIV	НА 6	0.044	0.007	0.757	3 //21	1.850	750	1639	0.000	0.030
Knowledge of mother, to child transmission	TIA.0	0.032	0.000	0.232	J.4Z1	1.050	7.50	1030	0.010	0.040
of HIV	ΗΔ 4	0 405	በ በ22	0.053	3 162	1 778	750	1638	0.362	0 448
	10.1	0.100	0.022	UNDER-5s	0.102	1.770	700		0.002	
Underweight prevalence	NU 1	0.296	0.019	0.066	2 101	1 450	543	1161	0.257	0.335
Tuberculosis immunization coverage	CH 2	0.200	0.010	0.125	0 930	0.965	123	263	0.207	0.000
Polio immunization coverage	CH 2	0.100	0.020	0.126	1.458	1 207	120	256	0.173	0.200
Immunization coverage for DPT	CH 2	0.237	0.002	0.302	1.430	1.207	120	264	0.175	0.001
Measles immunization coverage	CH 2	0.001	0.010	0.130	0.821	0.906	121	259	0.020	0.100
Fully immunized children	CH 2	0.155	0.021	0.100	1 218	1 104	121	264	0.110	0.200
Acute respiratory infection in last two weeks	CH G	0.052	0.013	0.232	1.210	1.104	666	1/18	0.022	0.002
Activities treatment of supported proumonia		0.000	0.005	0.144	1.375	1.405	42	00	0.045	0.001
Diarrhaga in last two wooks		0.201	0.000	0.211	1.373	1.175	42	1/10	0.131	0.372
Presived OPT or increased fluids and	011.4	0.114	0.011	0.037	1.714	1.303	000	1410	0.032	0.130
continued feeding	CH.5	0.134	0.029	0.217	1.150	1.072	76	158	0.076	0.193
Under-fives sleeping under insecticide										
treated nets	CH.12	0.073	0.020	0.273	8.251	2.872	666	1418	0.033	0.112
Fever in last two weeks	CH.13	0.145	0.016	0.110	2.878	1.697	666	1418	0.113	0.176
Antimalarial treatment	CH.13	0.049	0.016	0.334	1.128	1.062	96	198	0.016	0.081
Support for learning	CD.1	0.789	0.018	0.023	2.911	1.706	666	1418	0.752	0.826
Birth registration	CP.1	0.033	0.007	0.198	1.886	1.373	666	1418	0.020	0.046

Table SE.7: Sampling errors: Central South

						Square			Confider	nce limits
						root of				
			0	Coefficient	Design	design	147 - 17 - 1			
	Tablo	Value	Standard	of variation	effect (doff)	effect (doff)	Weighted	Unweighted	r 200	r 1 200
	Table	(7)		(36/1)	(uen)	luery	COUIIL	COUIII	1 - 230	1 + 230
	01144		+	IOUSEHOLDS		1.070				0.450
Household availability of ITNs	CH.11	0.132	0.010	0.077	2.818	1.6/9	3827	3118	0.112	0.153
mosquito net	CH 11	0 173	0.012	0.067	2 938	1 714	3827	3118	N 149	0 196
Indized salt consumption	NIL 5	0.015	0.012	0.161	1 155	1.075	3487	2842	0.110	0.020
	110.5	0.010	HOUS	FHOLD MEMBERS	3	1.075	5407	2042	0.010	0.020
Use of improved drinking water sources	EN.1	0.255	0.021	0.082	7.192	2.682	21809	3118	0.213	0.297
Use of improved sanitation facilities	FN.5	0.353	0.015	0.043	3.184	1.784	21809	3118	0.322	0.383
Net primary school attendance rate	FD 3	0 129	0.012	0 0.90	4 663	2 159	4783	3887	0 105	0 152
Net secondary school attendance rate	FD 4	0.050	0.012	0.188	2 807	1 676	1898	1526	0.031	0.068
Primary completion rate	ED 6	0.032	0.007	0.232	0.673	0.820	473	383	0.001	0.046
Child Jabour	CP 2	0.549	0.007	0.025	4 015	2 004	6375	5182	0.517	0.577
Prevalence of ornhans	CP 10	0.045	0.006	0.023	4 154	2.004	12210	9927	0.021	0.077
	01.10	0.000	0.000	WOMEN	+.104	2.000	12210	5527	0.075	0.050
Skilled attendant at delivery	RH.5	0.297	0.014	0.048	1.262	1.123	1560	1310	0.269	0.326
Antenatal care	RH.3	0.244	0.013	0.052	1.162	1.078	1560	1310	0.219	0.270
Contraceptive prevalence	RH.1	0.117	0.006	0.054	0.981	0.990	2985	2507	0.105	0.130
Adult literacy	ED.8	0.193	0.014	0.070	1.866	1.366	1914	1592	0.166	0.220
Prevalence of female genital mutilation/										
cutting (FGM/C)	CP.6	0.992	0.001	0.001	0.862	0.929	4291	3585	0.990	0.995
Marriage before age 18	CP.4	0.556	0.012	0.021	1.468	1.212	3225	2706	0.533	0.580
Polygyny	CP.4	0.244	0.009	0.039	1.214	1.102	2985	2507	0.225	0.263
Comprehensive knowledge about HIV										
prevention among young people	HA.3	0.030	0.003	0.110	1.338	1.157	4291	3585	0.024	0.037
Attitude towards people with HIV/AIDS	HA.5	0.075	0.006	0.075	0.945	0.972	2498	2064	0.064	0.087
Women who have been tested for HIV	HA.6	0.024	0.002	0.087	0.661	0.813	4291	3585	0.020	0.028
Knowledge of mother- to-child transmission		0.070	0.040	0.005	4 700	1.010	4004	0505	0.050	0.000
	HA.4	0.279	0.010	U.U35	1.722	1.312	4291	3585	0.259	0.299
Underweight provolonce	NUL 1	0.402	0.011	0.027	1 61/	1 270	1002	2252	0 200	0 /22
Tuboroulogis immunization covorage		0.402	0.011	0.027	1.014	1.270	4003	506	0.300	0.423
	CH 2	0.233	0.024	0.000	1.373	1.200	703	500	0.240	0.342
		0.424	0.022	0.001	1.111	1.004	700	575	0.301	0.400
Magalas immunization coverage for DPT		0.100	0.019	0.100	1.302	1.103	700	587	0.100	0.225
Fully increasing the hidden	6п.2	0.305	0.024	0.078	1.020	1.233	700	5/8	0.208	0.352
Fully Immunized children	UH.Z	0.159	0.018	U.111	1.357	1.165	702	583	0.124	0.194
weeks	CH.6	0.185	0.008	0.044	1.597	1.264	4394	3683	0,168	0,201
Antibiotic treatment of suspected										
pneumonia	CH.7	0.331	0.023	0.070	1.637	1.279	811	675	0.285	0.378
Diarrhoea in last two weeks	CH.4	0.249	0.008	0.031	1.209	1.099	4394	3683	0.233	0.265
Received ORT or increased fluids and										
continued feeding	CH.5	0.049	0.007	0.143	0.966	0.983	1095	916	0.035	0.063
Under-fives sleeping under insecticide	CU 12	0.100	0.010	0.101	4 160	2.042	1201	2602	0.090	0.120
Eaver in last two works	CH 12	0.100	0.010	0.101	4.100	2.042	4394	3003	0.080	0.120
Antimalarial treatment	CH 12	0.200	0.010	0.030	0.000	0.052	4394	3083	0.240	0.204
Support for loorning	CD 1	0.028	0.000	0.1/9	0.900	1.400	1103	3/8	0.018	0.038
Support for learning	CD.1	0.010	0.011	0.018	2.044	1.430	4394	3683	0.596	0.641
BIRTH registration	UP.1	0.019	0.002	0.110	0.863	0.929	4394	3683	0.015	0.023

Appendix D. Data Quality Tables

Table DO.1: Age distribution of household population

Single-year age distribution of household population by sex (weighted), Somalia, 2006

	Males				Females		Males
	Number		Percent	Number	Percent	-	Number
0		701	4.1	657	3.9	43	75
1		606	3.6	516	3.0	44	45
2		673	4.0	638	3.8	45	269
3		696	4.1	666	3.9	46	60
4		704	4.1	650	3.8	47	32
5		611	3.6	601	3.5	48	82
6		691	4.1	653	3.8	49	22
7		592	3.5	547	3.2	50	315
8		647	3.8	629	3.7	51	49
9		443	2.6	413	2.4	52	61
10		627	3.7	573	3.4	53	26
11		329	1.9	325	1.9	54	34
12		510	3.0	493	2.9	55	127
13		403	2.4	355	2.1	56	47
14		352	2.1	438	2.6	57	26
15		397	2.3	279	1.6	58	35
16		393	2.3	399	2.4	59	19
17		295	1.7	343	2.0	60	304
18		439	2.6	540	3.2	61	30
19		231	1.4	303	1.8	62	41
20		482	2.8	521	3.1	63	23
21		140	0.8	204	1.2	64	18
22		223	1.3	322	1.9	65	94
23		162	1.0	229	1.4	66	23
24		165	1.0	181	1.1	67	24
25		333	2.0	440	2.6	68	21
26		136	0.8	210	1.2	69	11
27		150	0.9	188	1.1	70	135
28		173	1.0	294	1.7	71	12
29		96	0.6	133	0.8	72	15
30		429	2.5	438	2.6	73	8
31		89	0.5	102	0.6	74	11
32		136	0.8	173	1.0	75	21
33		67	0.4	92	0.5	76	9
34		66	0.4	70	0.4	77	7
35		315	1.9	332	2.0	78	8
36		95	0.6	151	0.9	79	0
37		73	0.4	98	0.6	80+	88
38		131	0.8	182	1.1	DK/Missing	240
39		63	0.4	86	0.5		
40		460	2.7	365	2.2	Total	16988
41		73	0.4	78	0.5		
42		125	0.7	102	0.6		

Table D0.2: Age distribution of eligible and interviewed women

	Household population of women age 10-54	Interviewed wo	Percentage of		
	Number	Number Percent		interviewed	
Age					
10-14	2183	na	na	na	
15-19	1863	1705	25.2	91.5	
20-24	1457	1351	20.0	92.7	
25-29	1265	1187	17.5	93.8	
30-34	875	822	12.1	94.0	
35-39	850	796	11.8	93.7	
40-44	630	582	8.6	92.3	
45-49	347	329	4.9	94.7	
50-54	502	na	na	na	
15-49	7287	6772	100.0	92.9	

Household population of women age 10-54, interviewed women age 15-49, and percentage of eligible women who were interviewed (weighted), by five-year age group, Somalia, 2006

Table D0.3: Age distribution of eligible and interviewed under-5s

Household population of children age 0-4, children whose mothers/caretakers were interviewed, and percentage of under-5 children whose mothers/caretakers were interviewed (weighted), by five-year age group, Somalia, 2006

	Household population of children age 0-7	Interviewed child	Percentage of eligible children	
	Number	Number	Percent	interviewed
Age				
0	1346	1328	21.1	98.7
1	1111	1097	17.4	98.7
2	1264	1252	19.9	99.1
3	1340	1329	21.1	99.2
4	1312	1299	20.6	99.0
5	1237	na	na	na
6	1307	na	na	na
7	1117	na	na	na
0-4	6373	6305	100.0	98.9

Table D0.4: Age distribution of under-5 children

Age distribution of under-5 children by 3-month groups (weighted), Somalia, 2006

	Male	es	Fema	lles	To	tal
-	Number	Percent	Number	Percent	Number	Percent
Age in months						
0-2	167	5.1	146	4.8	314	5.0
3-5	200	6.1	168	5.5	368	5.8
6-8	208	6.4	215	7.1	423	6.7
9-11	108	3.3	115	3.8	223	3.5
12-14	199	6.1	177	5.9	377	6.0
15-17	177	5.4	161	5.3	338	5.4
18-20	151	4.6	113	3.7	264	4.2
21-23	50	1.5	58	1.9	108	1.7
24-26	228	7.0	211	7.0	439	7.0
27-29	227	6.9	183	6.0	410	6.5
30-32	127	3.9	143	4.7	270	4.3
33-35	77	2.3	68	2.2	145	2.3
36-38	224	6.9	196	6.5	421	6.7
39-41	232	7.1	232	7.7	464	7.4
42-44	139	4.2	144	4.7	283	4.5
45-47	70	2.1	70	2.3	140	2.2
48-50	225	6.9	196	6.5	421	6.7
51-53	263	8.0	224	7.4	487	7.7
54-56	141	4.3	139	4.6	281	4.4
57-59	62	1.9	70	2.3	133	2.1
Total	3275	100.0	3030	100.0	6305	100.0

Table D0.5: Heaping on ages and periods

Age and period ratios at boundaries of eligibility by type of information collected (weighted), Somalia, 2006

	Age and peri	od ratios*		Eligibility	
	Males	Females	Total	(lower-upper)	Module or questionnaire
Age in household questionnaire					
1	0.9	0.9	0.9		
2	1.0	1.1	1.0	Lower	Child discipline and child disability
3	1.0	1.0	1.0		
4	1.1	1.0	1.0	Upper	Under-5 questionnaire
5	0.9	0.9	0.9	Lower	Child labour and education
6	1.1	1.1	1.1		
8	1.2	1.2	1.2		
9	0.8	0.8	0.8	Upper	Child disability
10	1.3	1.3	1.3		
13	1.0	0.8	0.9		
14	0.9	1.2	1.1	Upper	Child labour and child discipline
15	1.0	0.7	0.9	Lower	Women's questionnaire
16	1.1	1.2	1.1		
17	0.8	0.8	0.8	Upper	Orphaned and vulnerable children
18	0.9	0.9	0.9		
23	0.9	0.9	0.9		
24	0.8	0.6	0.7	Upper	Education
25	1.6	1.6	1.6		
48	1.8	1.3	1.6		
49	0.2	0.4	0.2	Upper	Women's questionnaire
50	2.4	1.9	2.2		

Table DQ.6: Completeness of reporting

Percentage of observations missing information for selected questions and indicators (weighted), Somalia, 2006

		Percent with missing	Number of
Questionnaire and Subject	Reference group	information*	cases
Household			
Salt testing	All households surveyed	0.5	5969
Women			
Date of Birth	All women age 15-49		
Month only		65.8	6764
Month and year missing		0.0	6764
Date of first marriage/union	All ever married women age 15-49		
Month only		55.7	5047
Month and year missing		1.7	5047
Age at first marriage/union	All ever married women age 15-49	0.7	5047
Under-5			
Date of Birth	All under five children surveyed		
Month only		2.7	6305
Month and year missing		0.0	6305
Anthropometry	All under five children surveyed		
Height		6.6	6305
Weight		7.1	6305
Height or Weight		7.4	6305

* Includes "Don't know" responses

Table D0.7: 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 (weighted), Somalia, 2006

		Mother in th	ie household		Mothe	r not in the hou	sehold		Number
	Mother interviewed	Father interviewed	Other adult female interviewed	Other adult male interviewed	Father interviewed	Other adult female interviewed	Other adult male interviewed	Total	of children aged 0-4 years
Age									
0	96.9	0.3	0.7	0.1	0.0	2.0	0.0	100.0	1358
1	94.1	0.5	0.2	0.1	0.0	4.8	0.1	100.0	1122
2	91.7	0.3	0.7	0.0	0.2	6.9	0.2	100.0	1311
3	91.3	0.5	0.9	0.1	0.1	6.5	0.3	100.0	1361
4	88.7	0.2	0.9	0.2	0.5	8.7	0.6	100.0	1354
Total	92.5	0.4	0.7	0.1	0.2	5.8	0.2	100.0	6506

			Pr	imary scho	lo				Seco	ndary scho					Non		Not		
	Pre- school	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Higher	Koranic	standard curriculum	Don't know	attending school	Total	Number
Age																			
2	4.7	7.2	1.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.9	0.4	0.7	17.2	100	1212
9	2.3	7.1	2.6	1.5	0.2	0.0	0.0	0.1	0.0	0:0	0.0	0.0	0.0	73.2	0.8	0.3	11.0	100	1344
7	1.8	10.0	6.7	1.4	0.7	0.1	0.0	0.0	0.2	0:0	0.0	0.0	0.0	65.3	1.1	1.0	10.5	100	1139
8	0.8	9.9	11.7	5.4	1.7	0.2	0.1	0.0	0.3	0.0	0.0	0.0	0.0	58.8	0.8	0.0	9.7	100	1276
6	1.3	8.3	11.5	8.6	2.9	2.3	0.2	0.0	0.1	0:0	0.0	0.0	0.0	52.6	1.4	0.1	10.4	100	856
10	1.2	5.5	11.8	9.0	7.6	2.0	1.3	0.0	0.1	0.1	0.0	0.0	0.0	47.8	1.0	0.2	11.1	100	1199
11	0.4	3.9	9.4	7.7	9.9	5.7	3.2	0.0	0.2	0.0	0.0	0.0	0.0	44.4	1.8	0.6	11.8	100	654
12	0.5	4.5	8.2	6.8	8.6	6.2	3.2	0.3	0.1	0.2	0.1	0.0	0.0	42.3	1.1	0.4	13.8	100	1003
13	0.2	2.3	4.1	7.6	6.7	8.3	5.4	0.3	0.4	0.0	0.0	0.0	0.0	39.6	1.7	1.3	15.5	100	758
14	0.2	1.2	4.5	4.9	6.5	6.3	6.4	0.8	0.8	0.8	0.7	0.0	0.2	29.4	3.4	0.5	23.7	100	789
15	0.0	0.7	3.2	4.4	5.0	3.7	6.5	2.0	1.8	0.5	0.7	0.0	0.0	25.6	2.3	1.2	26.7	100	676
16	0.0	1.1	1.5	4.1	4.9	3.3	5.3	3.7	2.9	0.8	0.9	0.1	0.4	22.0	3.7	0.9	30.8	100	792
17	0.0	0.5	1.9	1.8	4.0	2.6	2.6	3.0	4.0	2.7	2.8	0.0	0.5	17.5	3.0	0.1	40.7	100	639
18	0.0	0.7	0.8	2.4	2.1	2.4	2.1	2.9	2.3	4.2	2.4	0.0	0.6	13.9	3.1	1.1	50.3	100	978
19	0.0	0.0	1.4	0.4	0.9	1.2	0.5	2.5	3.6	4.2	4.6	0.0	1.6	13.5	2.0	1.2	53.3	100	534
20	0.0	0.1	0.6	0.2	0.7	1.3	0.9	1.3	2.1	2.1	3.0	0.0	1.8	14.5	2.4	0.3	66.5	100	1003
21	0.0	0.0	0.0	0.6	1.6	0.3	0.5	0.6	4.0	1.4	5.8	0.0	3.8	10.6	3.8	0.8	64.2	100	344
22	0.0	0.0	0.0	0.0	0.0	0.5	1.3	0.9	1.1	3.3	1.7	0.0	2.2	12.7	2.9	0.0	71.6	100	545
23	0.0	0.9	0.2	0.0	1.7	0.2	1.7	0.2	0.4	2.1	3.9	0.0	2.0	7.5	3.5	0.2	73.5	100	391
24	0.0	0.0	0.6	0.6	0.0	0.7	1.3	1.0	0.0	0.4	3.4	0.0	2.4	11.8	2.1	0.6	69.5	100	346

Table DO.8: School attendance by single age

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Table DO.9: Sex ratio at birth among children ever born and living

Sex ratio at birth among children ever born, children living, and deceased children, by age of women (weighted), Somalia, 2006

	Chil	dren Ever Bo	rn	C	hildren Living		Chi	ildren decease	ed	
	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	Number of women
Age										
15-19	227	200	1.1	191	186	1.0	36	14	2.6	1706
20-24	971	939	1.0	862	843	1.0	108	95	1.1	1354
25-29	1926	1760	1.1	1666	1529	1.1	261	231	1.1	1183
30-34	1997	1814	1.1	1660	1527	1.1	336	287	1.2	822
35-39	2549	2228	1.1	2089	1881	1.1	461	347	1.3	798
40-44	2130	1815	1.2	1728	1497	1.2	402	318	1.3	580
45-49	1162	1057	1.1	917	853	1.1	245	205	1.2	320
Total	10962	9814	1.1	9114	8316	1.1	1849	1498	1.2	6764

Table D0.10: Distribution of women by time since last birth

Distribution of women aged 15-49 with at least one live birth, by months since last birth (weighted), Somalia, 2007

		Months	since last birth		
	Number	Percent		Number	Percent
0	77	3.2	12	85	3.6
1	110	4.6	13	132	5.6
2	132	5.6	14	155	6.5
3	119	5.0	15	115	4.9
4	119	5.0	16	97	4.1
5	130	5.5	17	89	3.8
6	138	5.8	18	64	2.7
7	198	8.4	19	100	4.2
8	110	4.6	20	67	2.8
9	76	3.2	21	18	0.8
10	81	3.4	22	23	1.0
11	62	2.6	23	65	2.7
12	85	3.6	24	2	0.1
		Total		2371	100

Typical data quality issues: Months since last birth may be heaped on periods of 6 months, 12 months, 24 months etc. In particular, the heaping on 24 months is problematic, since some women had a birth in the last 2 years, but did not declare them so.

Appendix E. MICS Indicators: Numerators and Denominators

IND	ICATOR	NUMERATOR	DENOMINATOR
-	Under-five mortality rate	Probability of dying by exact age 5 years	
2	Infant mortality rate	Probability of dying by exact age 1 year	
ę	Maternal mortality ratio	Number of deaths of women from pregnancy-related causes in a given year	Number of live births in the year (expressed per 100,000 births)
4	Skilled attendant at delivery	Number of women aged 15-49 years with a birth in the 2 years preceding the survey that were attended during childbirth by skilled health personnel	Total number of women surveyed aged 15-49 years with a birth in the 2 years preceding the survey
2 2	Institutional deliveries	Number of women aged 15-49 years with a birth in the 2 years preceding the survey that delivered in a health facility	Total number of women surveyed aged 15-49 years with a birth in 2 years preceding the survey
9	Underweight prevalence	Number of children under age five that fall below minus two standard deviations from the median weight for age of the NCHS/WHO standard (moderate and severe); number that fall below minus three standard deviations (severe)	Total number of children under age five that were weighed
7	Stunting prevalence	Number of children under age five that fall below minus two standard deviations from the median height for age of the NCHS/WHO standard (moderate and severe); number that fall below minus three standard deviations (severe)	Total number of children under age five measured
œ	Wasting prevalence	Number of children under age five that fall below minus two standard deviations from the median weight for height of the NCHS/WHO standard (moderate and severe); number that fall below minus three standard deviations (severe)	Total number of children under age five weighed and measured
റ	Low-birth weight infants	Number of last live births in the 2 years preceding the survey weighing below 2,500 grams	Total number of last live births in the 2 years preceding the survey
10	Infants weighed at birth	Number of last live births in the 2 years preceding the survey that were weighed at birth	Total number of last live births in the 2 years preceding the survey
1	Use of improved drinking water sources	Number of household members living in households using improved sources of drinking water	Total number of household members in households surveyed
12	Use of improved sanitation facilities	Number of household members using improved sanitation facilities	Total number of household members in households surveyed
13	Water treatment	Number of household members using water that has been treated	Total number of household members in households surveyed
14	Disposal of child's faeces	Number of children under age three whose (last) stools were disposed of safely	Total number of children under age three surveyed
15	Exclusive breastfeeding rate	Number of infants aged 0-5 months that are exclusively breastfed	Total number of infants aged 0-5 months surveyed
INDI	CATOR	NUMERATOR	DENOMINATOR
------	---	---	--
16	Continued breastfeeding rate	Number of infants aged 12-15 months, and 20-23 months, that are currently breastfeeding	Total number of children aged 12-15 months and 20-23 months surveyed
17	Timely complementary feeding rate	Number of infants aged 6-9 months that are receiving breastmilk and complementary foods	Total number of infants aged 6-9 months surveyed
18	Frequency of complementary feeding	Number of infants aged 6-11 months that receive breastmilk and complementary food at least the minimum recommended number of times per day (two times per day for infants aged 6-8 months, three times per day for infants aged 9-11 months)	Total number of infants aged 6-11 months surveyed
19	Adequately fed infants	Number of infants aged 0-11 months that are appropriately fed: infants aged 0-5 months that are exclusively breastfed and infants aged 6-11 months that are breastfed and ate solid or semi-solid foods the appropriate number of times (see above) yesterday	Total number of infants aged 0-11 months surveyed
20	Antenatal care	Number of women aged 15-49 years that were attended at least once during pregnancy in the 2 years preceding the survey by skilled health personnel	Total number of women surveyed aged 15-49 years with a birth in the 2 years preceding the survey
21	Contraceptive prevalence	Number of women currently married or in union aged 15-49 years that are using (or whose partner is using) a contraceptive method (either modern or traditional)	Total number of women aged 15-49 years that are currently married or in union
22	Antibiotic treatment of suspected pneumonia	Number of children aged 0-59 months with suspected pneumonia in the previous 2 weeks receiving antibiotics	Total number of children aged 0-59 months with suspected pneumonia in the previous 2 weeks
23	Care-seeking for suspected pneumonia	Number of children aged 0-59 months with suspected pneumonia in the previous 2 weeks that are taken to an appropriate health provider	Total number of children aged 0-59 months with suspected pneumonia in the previous 2 weeks
24	Solid fuels	Number of residents in households that use solid fuels (wood, charcoal, crop residues and dung) as the primary source of domestic energy to cook	Total number of residents in households surveyed
25	Tuberculosis immunization coverage	Number of children aged 12-23 months receiving BCG vaccine before their first birthday	Total number of children aged 12-23 months surveyed
26	Polio immunization coverage	Number of children aged 12-23 months receiving OPV3 vaccine before their first birthday	Total number of children aged 12-23 months surveyed
27	Immunization coverage for diphtheria, pertussis and tetanus (DPT)	Number of children aged 12-23 months receiving DPT3 vaccine before their first birthday	Total number of children aged 12-23 months surveyed
28	Measles immunization coverage	Number of children aged 12-23 months receiving measles vaccine before their first birthday	Total number of children aged 12-23 months surveyed
31	Fully immunized children	Number of children aged 12-23 months receiving DPT1-3, OPV-1-3, BCG and measles vaccines before their first birthday	Total number of children aged 12-23 months surveyed
32	Neonatal tetanus protection	Number of mothers with live births in the previous year that were given at least two doses of tetanus toxoid (TT) vaccine within the appropriate interval prior to giving birth	Total number of women surveyed aged 15-49 years with a birth in the year preceding the survey

INDI	CATOR	NUMERATOR	DENOMINATOR
33	Use of oral rehydration therapy (ORT)	Number of children aged 0-59 months with diarrhoea in the previous 2 weeks that received oral rehydration salts and/ or an appropriate household solution	Total number of children aged 0-59 months with diarrhoea in the previous 2 weeks
34	Home management of diarrhoea	Number of children aged 0-59 months with diarrhoea in the previous 2 weeks that received more fluids AND continued eating somewhat less, the same or more food	Total number of children aged 0-59 months with diarrhoea in the previous 2 weeks
35	Received ORT or increased fluids and continued feeding	Number of children aged 0-59 months with diarrhoea that received ORT (oral rehydration salts or an appropriate household solution) or received more fluids AND continued eating somewhat less, the same or more food	Total number of children aged 0-59 months with diarrhoea in the previous 2 weeks
36	Household availability of insecticide-treated nets (ITNs)	Number of households with at least one mosquito net, either permanently treated or treated within the previous year	Total number of households surveyed
37	Under-fives sleeping under insecticide- treated nets	Number of children aged 0-59 months that slept under an insecticide-treated mosquito net the previous night	Total number of children aged 0-59 months surveyed
38	Under-fives sleeping under mosquito nets	Number of children aged 0-59 months that slept under a mosquito net the previous night	Total number of children aged 0-59 months surveyed
39	Antimalarial treatment (under- fives)	Number of children aged 0-59 months reported to have had fever in the previous 2 weeks that were treated with an appropriate antimalarial within 24 hours of onset	Total number of children aged 0-59 months reported to have had fever in the previous 2 weeks
40	Intermittent preventive malaria treatment (pregnant women)	Number of women receiving appropriate intermittent medication to prevent malaria (defined as at least 2 doses of SP/ Fansidar) during the last pregnancy, leading to a live birth within the 2 years preceding the survey	Total number of women that have had a live birth within the 2 years preceding the survey
41	lodized salt consumption	Number of households with salt testing 15 parts per million or more of iodine/iodate	Total number of households surveyed
42	Vitamin A supplementation (under-fives)	Number of children aged 6-59 months receiving at least one high-dose vitamin A supplement in the previous 6 months	Total number of children aged 6-59 months surveyed
43	Vitamin A supplementation (post-partum mothers)	Number of women with a live birth in the 2 years preceding the survey that received a high-dose vitamin A supplement within 8 weeks after birth	Total number of women that had a live birth in the 2 years preceding the survey
44	Content of antenatal care	Number of women with a live birth in the 2 years preceding the survey that received antenatal care during the last pregnancy	Total number of women with a live birth in the 2 years preceding the survey
45	Timely initiation of breastfeeding	Number of women with a live birth in the 2 years preceding the survey that put the newborn infant to the breast within 1 hour of birth	Total number of women with a live birth in the 2 years preceding the survey
46	Support for learning	Number of children aged 0-59 months living in households in which an adult has engaged in four or more activities to promote learning and school readiness in the past 3 days	Total number of children aged 0-59 months surveyed
47	Father's support for learning	Number of children aged 0-59 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 aged 0-59 months
52	Pre-school attendance	Number of children aged 36-59 months that attend some form of early childhood education programme	Total number of children aged 36-59 months surveyed
53	School readiness	Number of children in first grade that attended some form of pre-school the previous year	Total number of children in the first grade surveyed

INDIC	ATOR	NUMERATOR	DENOMINATOR
54	Net intake rate in primary education	Number of children of school-entry age that are currently attending first grade	Total number of children of primary- school entry age surveyed
55	Net primary school attendance rate	Number of children of primary-school age currently attending primary or secondary school	Total number of children of primary- school age surveyed
56	Net secondary school attendance rate	Number of children of secondary-school age currently attending secondary school or higher	Total number of children of secondary-school age surveyed
57	Children reaching grade five	Proportion of children entering the first grade of primary school that eventually reach grade five	
58	Transition rate to secondary school	Number of children that were in the last grade of primary school during the previous school year that attend secondary school	Total number of children that were in the last grade of primary school during the previous school year surveyed
59	Primary completion rate	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) surveyed
60	Adult literacy rate	Number of women aged 15-24 years that are able to read a short simple statement about everyday life	Total number of women aged 15-24 years surveyed
61	Gender parity index	Proportion of girls in primary and secondary education	Proportion of boys in primary and secondary education
62	Birth registration	Number of children aged 0-59 months whose births are reported registered	Total number of children aged 0-59 months surveyed
63	Prevalence of female genital mutilation/cutting (FGM/C)	Number of women aged 15-49 years that reported undergoing <u>any</u> form of genital mutilation/cutting	Total number of women aged 15-49 years surveyed
64	Prevalence of extreme form of FGM/C	Number of women aged 15-49 years that reported undergoing an extreme form of genital mutilation/cutting (such as infibulation)	Total number of women aged 15-49 years surveyed
65	Prevalence of FGM/C among daughters	Number of women aged 15-49 years that reported that at least one daughter had undergone female genital mutilation/cutting	Total number of women aged 15-49 years surveyed that have at least one living daughter
99	Approval for FGM/C	Number of women aged 15-49 years favouring the continuation of female genital mutilation/cutting	Total number of women aged 15-49 years surveyed
67	Marriage before age 15 and age 18	Number of women that were first married or in union by the exact age of 15 and the exact age of 18, by age groups	Total number of women aged 15-49 years and 20-49 years surveyed, by age groups
68	Young women aged 15-19 years currently married or in union	Number of women aged 15-19 years currently married or in union	Total number of women aged 15-19 years surveyed
69	Spousal age difference	Number of women married/in union aged 15-19 years and 20-24 years with a difference in age of 10 or more years oetween them and their current spouse	Total number of women aged 15-19 and 20-24 years surveyed that are currently married or in union
70	Polygyny	Number of women in a polygynous union	Total number of women aged 15-49 years surveyed that are currently married or in union
71	Child labour	Number of children aged 5-14 years that are involved in child labour	Total number of children aged 5-14 years surveyed
72	Labourer students	Number of children aged 5-14 years involved in child labour activities that attend school	Total number of children aged 5-14 years involved in child labour activities

INDI	CATOR	NUMERATOR	DENOMINATOR
73	Student labourers	Number of children aged 5-14 years attending school that are involved in child labour activities	Total number of children aged 5-14 years attending school
75	Prevalence of orphans	Number of children under age 18 with at least one dead parent	Total number of children under age 18 surveyed
77	School attendance of orphans versus non-orphans	Proportion of double orphans (both mother and father dead) aged 10-14 years attending school	Proportion of children aged 10-14 years, both of whose parents are alive, that are living with at least one parent and are attending school
78	Children's living arrangements	Number of children aged 0-17 years not living with a biological parent	Total number of children aged 0-17 years surveyed
62	Malnutrition among children orphaned	Proportion of orphaned children under age five that are moderately or severely underweight, of all orphaned children under age five that are weighed	Proportion of children not classified as orphaned under age five that are moderately or severely underweight, of all children not classified as orphaned under age five that are weighed
82	Comprehensive knowledge about HIV prevention among young people	Number of women aged 15-24 years that correctly identify two ways of avoiding HIV infection and reject three common misconceptions about HIV transmission	Total number of women aged 15-24 years surveyed
86	Attitude towards people with HIV/AIDS	Number of women expressing acceptance on all four questions about people with HIV or AIDS	Total number of women surveyed
87	Women who know where to be tested for HIV	Number of women that state knowledge of a place to be tested	Total number of women surveyed
88	Women who have been tested for HIV	Number of women that report being tested for HIV	Total number of women surveyed
89	Knowledge of mother-to-child transmission of HIV	Number of women that correctly identify all three means of vertical transmission	Total number of women surveyed
86	Unmet need for family planning	Number of women that are currently married or in union that are fecund and want to space their births or limit the number of children they have and that are not currently using contraception	Total number of women interviewed that are currently married or in union
66	Demand satisfied for family planning	Number of women currently married or in union that are currently using contraception	Number of women currently married or in union that have an unmet need for contraception or that are currently using contraception
100	Attitudes towards domestic violence	Number of married women that consider 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 surveyed
101	Child disability	Number of children aged 2-9 years with at least one of nine reported disabilities: (1) delay in sitting, standing or walking, (2) difficulty seeing, either in the daytime or at night, (3) appears to have difficulty hearing, (4) difficulty in understanding instructions, (5) difficulty walking or moving arms or has weakness or stiffness of limbs, (6) has fits, becomes rigid, loses consciousness, (7) does not learn to do things like other children his/her age, (8) cannot speak or cannot be understood in words, (9) appears mentally backward, dull or slow	Total number of children aged 2-9 surveyed

Appendix F. Questionnaires

HOUSEHOLD QUESTIONNAIRE

 \Rightarrow We are from (*country-specific affiliation*). We are working on a project concerned with family health and education. I would like to talk to you about this. The interview will take about (60) minutes. All the information we obtain will remain strictly confidential and your answers will never be identified. During this time I would like to speak with the household head and all mothers or others who take care of children in the household.

May I start now? If permission is given, begin the interview.

HOUSEHOLD INFORMATION PANEL HH	[
HH1. Cluster number:	HH2. Household number:
HH3. Interviewer name and number:	HH4. Supervisor name and number:
Name	Name
HH5. Day/Month/Year of interview:	······
HH6. Area: Urban	HH7. Region: Zone 1: Somaliland1 Zone 2: Puntland2 Zone 3: Central South3
After all quastionnaires for the household have how completed to	GII in the following information
After all questionnaires for the nousenoid nave been completed, j	ni in the following information:
HH9. Result of HH interview:	HH10. Respondent to HH questionnaire:
Completed1	Name:
Refused	Line No:
Other (specify)6	HH11. Total number of household members:
HH12. No.of women eligible for interview:	HH13. No.of women questionnaires completed:
HH14. No.of children under age 5:	HH15. No.of under-5 questionnaires completed:
Interviewer/supervisor notes: Use this space to record notes times, incomplete individual interview forms, number of attemp	about the interview with this household, such as call-back ts to re-visit, etc.
HH16. Data entry clerk:	

HOUS	SEHOLD LISTING FOR	SM									HL
FIRST, List th Then a Then,	PLEASE TELL ME THE NAME <i>e head of the household in</i> isk: Are THERE ANY OTHER ask questions starting win	to FEACH PER: 1 line 01. Lisi RS WHO LIVE F th HL5 for ea	SON WHO U: t all househ HERE, EVEN I tch person a	SUALLY LIVES HERE, old members (HL2 F THEY ARE NOT AT it a time. Add a con	STARTING WITH), their relation HOME NOW? (1 ntinuation she	THE HEAD OF THE aship to the house THESE MAY INCLUE of if there are mo.	EHOUSEHOLD. Phold head (HL3), i DE CHILDREN IN SCH re than 15 househo	and their sex (HL4 100L OR AT WORK) 11d members. Tick 1	t). If yes, complete listing here if continuation sh	t; teet used □	
						Eligible for:					
					women's Interview	CHILD LABOUR MODULE	under-5 interview		For children ask HL	age 0-17 years 9-HL12	
HL1. Line no.	HIL2. Name	HL3. What is the	HL4. Is (name) MALE OR	HL5. How old Is (name)?	HL6. Circle Line no.	HL7. For each child age 5-14:	HL8. For each child under 5:	HL9. Is (name's)	HL10. If alive: DOES (name's)	HL11. Is (name's)	HL12. If alive: DOES (name's)
		RELATION- SHIP OF	FEMALE?	How old was	if woman is age	Who is the mother or	Who is the mother or	NATURAL MOTHER ALIVE?	NATURAL MOTHER LIVE IN THIS	NATURAL FATHER	NATURAL FATHER LIVE IN THIS
		(<i>name</i>) TO THE HEAD OF THE	1 male 2 fem.	(<i>name</i>) ON HIS/ HER LAST BIRTHDAY?	15-49	PRIMARY CARETAKER OF THIS CHILD?	PRIMARY CARETAKER OF THIS CHILD?	1 YES 2 NO⇔ HL11	HOUSEHOLD? Record Line no.	ALIVE? 1 YES	HOUSEHOLD? Record Line no.
		HOLD?		Record in		Record Line		8 DK⇔HL11	of mother or 00 for 'no'	2 NOSI NEXT LINE	of father or 00 for 'no'
				completed years 98=DK*		no. of mother/ caretaker	Record Line no. of mother/ caretaker			8 DKY NEXT LINE	
LINE	NAME	REL.	M F	AGE	15-49	MOTHER	MOTHER	Y N DK	MOTHER	Y N DK	FATHER
01		0 1	1 2		01			1 2 8		1 2 8	
02			1 2		02			1 2 8		1 2 8	
03			1 2		03			1 2 8		1 2 8	
04			1 2		04			1 2 8		1 2 8	
05			1 2		05			1 2 8		1 2 8	
90			1 2		90			1 2 8		1 2 8	
07			1 2		07			1 2 8		1 2 8	
08			1 2		08			1 2 8		1 2 8	

2. e: me's)	HER LIVE IS DLD ?	ne no. - 00 for		IR										
HL1 If alic DOES (na	NATURAL FA: IN TH HOUSEH(Record Li of father on		FATHI										
HL11. Is (name's)	NATURAL FATHER ALIVE?	1 YES 2 NO SA	8 DKS NEXT LINE	Y N DK	1 2 8	1 2 8	1 2 8	1 2 8	1 2 8	1 2 8	1 2 8			
HL10. If alive: DOES (name's)	NATURAL MOTHER LIVE IN THIS HOUSEHOLD?	Record Line no. of mother or 00 for 'no'		MOTHER								05		
HL9. Is (name's)	natural mother alive? 1 yes	2 №⇔ НL11 8 рк⇔НL11		Y N DK	1 2 8	1 2 8	1 2 8	1 2 8	1 2 8	1 2 8	1 2 8	IN THIS HOUSEHOL		
HL8. For each child under 5:	WHO IS THE MOTHER OR PRIMARY CARETAKER OF	THIS CHILD?	Record Line no. of mother/ caretaker	MOTHER								WE PARENTS LIVING	Under-5s	
HL7. For each child age 5-14:	WHO IS THE MOTHER OR PRIMARY CARETAKER OF	THIS CHILD? Decord I inc	no. of mother/ caretaker	MOTHER								AILY OR DO NOT HA	Children 5-14	
HL6. Circle Line no.	if woman 1s age 15-49			15-49	60	10	11	12	13	14	15	rs of YOUR FAN and complet	Women 15-49	
HL5. How old Is (name)?	How old was (<i>name</i>) on HIS/HER LAST	BIRTHDAY? Record in	years 98=DK*	AGE								ert child's name		
HL4. Is (name) MALE OR	female? 1 male 2 fem.			M F	1 2	1 2	1 2	1 2	1 2	1 2	1 2	EVEN IF THE FIF yes, inse		
HL3. What is the	RELATION- SHIP OF (name) TO THE HEAD	OF THE HOUSE-		REL.								LIVING HERE - JR AT SCHOOL		
HL2. Name				NAME								HERE ANY OTHER PERSONS NING CHILDREN AT WORK C complete the totals below		
HL1. Line no.				LINE	60	10	11	12	13	14	15	Are th Inclut Then, c		Totals

HL1.	HL2.	HL3.	HL4.	HL5.	HL6.	HL7.	HL8.	HL9.	HL10.	HL11.	HL12.
Line	Name	WHAT	Is (name)	How old	Circle	For each child	For each child		If alive:		If alive:
<i>no.</i>		IS THE	MALE OR	IS (name)?	Line no.	age 5-14:	under 5:	Is (name's)	DOES (name's)	Is (name's)	DOES (name's)
		RELATION-	FEMALE?		if woman is	WHO IS THE	WHO IS THE	NATURAL	NATURAL MOTHER	NATURAL	NATURAL FATHER LIVE
		SHIP OF		How old was	age	MOTHER OR	MOTHER OR	MOTHER ALIVE?	LIVE IN THIS	FATHER	IN THIS
		(пате) то	1 MALE	(name) on	15-49	PRIMARY	PRIMARY		HOUSEHOLD?	ALIVE?	HOUSEHOLD?
		THE HEAD	2 FEM.	HIS/HER LAST		CARETAKER OF	CARETAKER OF	1 yes			
		OF THE		BIRTHDAY?		THIS CHILD?	THIS CHILD?	2 NO⇔ HL11	Record Line no.	1 YES	Record Line no.
		HOUSE-						8 DK⇔HL11	of mother or 00	2 NO 🖄	of father or 00 for
		Ногр?		Record in		Record Line			for 'no'	NEXT LINE	,0 <i>u</i> ,
				completed		no. of mother/				8 DKS	
				years		caretaker	Record Line no.			NEXT LINE	
							of mother/				
				98=DK*			caretaker				
LINE	NAME	REL.	MF	AGE	15-49	MOTHER	MOTHER	Y N DK	MOTHER	Y N DK	FATHER
* See ii	structions: to be used on	ily for elderly	y household	members (code m	eaning "do not	know/over age 5	0").				
Now fc	r each woman age 15-49	years, write	her name a	nd line number an	ud other identif	ying information	t in the information	1 panel of the Wom	ten's Questionnaire.		
For eac	h child under age 5, writ	e his/her nan	me and line	number AND the	line number o	fhis/her mother a	or caretaker in the	information panel (of the Questionnaire fo	or Children Under	·Five.
You sh	ould now have a separate	2 questionnai	ire for each t	eligible woman an	d each child un	ider five in the ho	nusehold.				

* Codes for HL3: Relationship to head of household:

01 = Head

02 = Wife or Husband

03 = Son or Daughter 04 = Son or Daughter In-Law 05 = Grandchild

07 = Parent-In-Law06 = Parent

08 = Brother or Sister

09 = Brother or Sister-In-Law 10 = Uncle/Aunt

11 = Niece/Nephew By Blood 12 = Niece/Nephew By Marriage 13 = Other Relative

14 = Adopted/Foster/Stepchild 15 = Not Related 98 = Don't Know

	S	ED8. During that previous school year, which level and grade did (<i>name</i>) attend? attend? 0 Preschool 1 primary 2 secondary 3 higher 4 Koranic 6 non-formal curriculum 8 dk 66 Do not have grades 66 Do not have grades	LEVEL GRADE	0 1 2 3 4 6 8	0 1 2 3 4 6 8	0 1 2 3 4 6 8	0 1 2 3 4 6 8	0 1 2 3 46 8	0 1 2 3 4 6 8	0 1 2 3 46 8	0 1 2 3 46 8	0 1 2 3 46 8	0 1 2 3 46 8	0 1 2 3 46 8	0 1 2 3 46 8	0 1 2 3 46 8	0 1 2 3 4 6 8	0 1 2 3 4 6 8
	-24 year	te) Hool HE HE EAR, 1NE 1NE LINE	DK	8	8	8	8	8	8	8	8	8	8	8	8	8	8	∞
	ers age 5	ED7, ATTEND 54 ATTEND 54 AT ANY TI ANY TI ANY TI JURING T JURING T PREVIOUS 5CHOOL Y THAT IS (2005)? 2 NOYI NEXT I S DKYI NEXT I NEXT I	Y N	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2
	For household memb	ED6. DURING THAT SCHOOL YEAR, WHICH LEVEL AND GRADE WAS (<i>name</i>) ATTENDING? LEVEL: 0 PRESCHOOL 1 PRIMARY 2 SECONDARY 3 HIGHER 4 KORANIC 6 NON-FORMAL CURRICULUM 8 DK 8 DK 66 DO NOT HAVE GRADES 66 DO NOT HAVE GRADES	LEVEL GRADE	0 1 2 3 46 8	0 1 2 3 46 8	0 1 2 3 46 8	0 1 2 3 46 8	0 1 2 3 46 8	0 1 2 3 46 8	0 1 2 3 46 8	0 1 2 3 46 8	0 1 2 3 46 8	0 1 2 3 46 8	0 1 2 3 46 8	0 1 2 3 46 8	0 1 2 3 46 8	0 1 2 3 46 8	0 1 2 3 46 8
		THE 006) TEAR, TeO THOOL TME? ED7 ED7	ON	7	2	2	2	2	2	2	2	2	2	2	2	2	2	2
		ED4. DURING (2005-2) SCHOOL 3 CHOOL 7 ATTEND 5 OR PRESC OR PRESC AT ANY 7 AT ANY 7 A	YES	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-	and above	ED3. What is the highest level of school (name) attended? What is the highest grade (name) completed at this level? Level: 0 pre-school 1 primary 2 secondary 3 higher 4 Koranic 6 Non-formal curriculum 8 dk 6 Do not have grades 66 Do not have grades 1f less than 1 grade, enter 00.	LEVEL GRADE	0 1 2 3 4 6 8	0 1 2 3 4 6 8	0 1 2 3 4 6 8	0 1 2 3 4 6 8	0 1 2 3 4 6 8	0 1 2 3 4 6 8	0 1 2 3 4 6 8	0 1 2 3 4 6 8	0 1 2 3 4 6 8	0 1 2 3 4 6 8	0 1 2 3 4 6 8	0 1 2 3 4 6 8	0 1 2 3 4 6 8	0 1 2 3 4 6 8	0 1 2 3 4 6 8
ON MODULEED	For household members age 5 a	11A. ED2. HAS (<i>name</i>) EVER ATTENDED SCHOOL OR PRESCHOOL? OR PRESCHOOL? 1 YES ⇔ ED3 2 NO % NEXT LINE	YES NO	1 2⇔NEXT LINE	¹ 2⇔NEXT LINE													
EDUCAT		ED1. E Line no.	LINE	01	02	03	04	05	90	07	08	60	10	11	12	13	14	15

WATER AND SANITATION MODULE		WS
WS1. WHAT IS THE MAIN SOURCE OF DRINKING WATER FOR	Piped water	
MEMBERS OF YOUR HOUSEHOLD?	Piped into dwelling11	11⇔WS5
	Piped into yard or plot12	12⇔WS5
	Public tap/standpipe/kiosk13	
	Tubewell/borehole	
	Dug well	
	Protected well	⇔WS3
	Unprotected well	
	Water from spring	
	Protected spring41	
	Unprotected spring	
	Rainwater collection	
	Roottop	
	Berkad	
	Kain water catchment(Balli)	
	lanker-truck	
	Cart with small tank/ drum/ vendor	
	Surface water (river, stream, dam, lake,	
	pond, canal, irrigation channel)81	
	Bottled water91	91⇔WS2
	Other (<i>specify</i>)96	96⇒WS3
WS2. WHAT IS THE MAIN SOURCE OF WATER USED BY YOUR	Piped water	
HOUSEHOLD FOR OTHER PURPOSES SUCH AS COOKING AND	Piped into dwelling11	11⇔WS5A
HANDWASHING?	Piped into yard or plot12	12⇔WS5A
	Public tap/standpipe/kiosk13	
	Tubewell/borehole	
	Dug well	
	Protected well	
	Unprotected well	
	Water from spring	
	Protected spring41	
	Unprotected spring	
	Rainwater collection	
	Rooftop	
	Berkad	
	Rain water catchment(Balli)54	
	Tanker-truck	
	Cart with small tank/drum/vendor71	
	Surface water (river, stream, dam, lake,	
	pond, canal, irrigation channel)81	
	Other (specify)96	
WS3. How long does it take to go there, get water, and		
COME BACK?	No. of minutes	
	Water on premises	995⇔WS5A
	DK	
WS4. WHO USUALLY GOES TO THIS SOURCE TO FETCH THE	Adult woman1	
WATER FOR YOUR HOUSEHOLD?	Adult man2	
	Female child (under 15)3	
Probe:	Male child (under 15)4	
Is this person under age 15? What sex?		
Circle code that best describes this person.	DK8	
WS5A. DO YOU TAKE ANY MEASURES TO PREVENT	Yes1	
CONTAMINATION WHILE HANDLING THE WATER OR WATER	No2	2⇒WS5
SRORAGE CONTAINERS?	DK8	8⇔WS5

WS5B. WHAT DO YOU USUALLY DO TO PREVENT COTAMINATION WHILE HANDLING WATER AND WATER STORAGE CONTAINERS? Anything else? Record all items mentioned	Wash hands before collecting water	
	Others (Specify)X DKZ	
WS5. Do you treat your water in any way to make it safer to drink?	Yes1 No2 DK8	2⇔WS6a 8⇔WS6a
WS6. What do you usually do to the water to make it safer to drink? <i>Anuthing else?</i>	BoilA Add bleach/chlorineB Strain it through a clothC Use water filter (ceramic, sand, composite, etc.) D	
Record all items mentioned.	Solar disinfection	
	Other (specify) X DKZ	
WS6A. DOES YOUR MAIN DRINKING WATER SOURCE GIVE YOU A RELIABLE SUPPLY?	Yes, almost never problems1Occasional problems, but less than weekly2Weekly problems3Daily problems4Seasonal supply5	
	DK8	
 WS7. WHAT KIND OF TOILET FACILITY DO MEMBERS OF YOUR HOUSEHOLD USUALLY USE? If "flush" or "pour flush", probe: WHERE DOES IT FLUSH TO? If necessary, ask permission to observe the facility. 	Flush / pour flushFlush to piped sewer system11Flush to septic tank12Flush to pit (latrine)13Flush to somewhere else14Flush to unknown place/not sure/DK where15	
,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,	Ventilated Improved Pit latrine (VIP)21 Pit latrine with slab22 Pit latrine without slab / open pit23	
	No facilities or bush or field	95⇔WS9A
WS8. Do you share this facility with other households?	Yes1 No2	2⇔WS9A
WS9. How many households in total use this toilet facility?	No. of households (if less than 10) Ten or more households10 DK98	
WS9A. DO YOU USUALLY WASH YOUR HANDS USING SOAP AT ANY OF THE FOLLOWING TIMES?	Yes No	
Before eating? Before feeding babies? After defecation? After cleaning babies bottoms? Before cooking food? After eating?	Before eating12Before feeding babies?12After defecation?12After cleaning babies bottoms?12Before cooking food?12After eating?12	

HOUSEHOLD CHARACTERISTICS MODULE		HC
HC2. How many rooms in this household are used for sleeping?	No. of rooms	
HC3. Main material of the dwelling floor: <i>Record observation.</i>	Natural floor Earth/sand11 Rudimentary floor Wood planks	
	Finished floor Vinyl or asphalt strips	
	Other (<i>specify</i>) 96	
HC4. Main material of the roof.	Natural roofing No Roof	
Record observation.	Thatch/palm leaf	
	Palm/grass	
	Metal	
	Roofing shingles	
	Other (<i>specify</i>)96	
Record observation.	Natural walls No walls11 palm/trunks/sticks12 Mud 13	
	Rudimentary walls Sticks with mud21 Stone with mud22	
	Uncovered adobe	
	Reused wood	
	Cement	
	Cement blocks	
	Other (specify)96	
HC6. What type of fuel does your household mainly use for cooking?	Electricity01 Liquid Propane Gas (LPG)02 Kerosene05 Charcoal07	
	Wood.08Straw/shrubs/grass.09Animal dung.10Agricultural crop residue.11	01⇔HC8 02⇔HC8
	Other (specify)96	

HC7. In this household, is food cooked on an open fire, an open stove or a closed stove? Probe for type.	Open fire1 Open stove	3⇔HC8
	Other (specify)6	6⇒HC8
HC7A. DOES THE FIRE/STOVE HAVE A CHIMNEY OR A HOOD?	Yes1 No2	
HC8. Is the cooking usually done in the house, in a separate building, or outdoors?	In the house	
HC9. Does your household have: a bed? Electricity? A radio? A television? A mobile telephone? A non-mobile telephone? A refrigerator? A vcd / dvd player? A fan? A satellite dish?	Yes No Bed	
HC10. Does any member of your household own: A watch? A bicycle? A Donkey- cart? A car or truck (big car)? A clock? A sewing machine?	Yes No Watch	
HC11. Does any member of this household own any land that can be used for agriculture?	Yes1 No2	2⇔HC13
HC12. How many hectares of agricultural land do members of this household own? If more than 97, record '97'. If unknown, record '98'	Hectares	
HC13. Does this household own any livestock, herds, or farm animals?	Yes1 No2	2⇔NEXT MODULE
HC14. How many of the following animals does this household have?		
Camels?	Camels	
MILK COWS OR BULLS?	Milk cows or bulls	
Horses, donkeys, or mules?	Horses, donkeys, or mules	
Goats?	Goats	
Sheep?	Sheep	
CHICKENS?	Chickens	
If none, record '00'. If more than 97, record '97'. If unknown, record '98'.		

ABOUR MODULE uistered to mother/caretaker	of eac	h child in the	household ag	e 5 through 14 years. Fi	or house	hold mem	bers be	low age 5 or above age	e 14, leave rows blank.		CL
LD LIKE TO ASK ABOUT ANY WORK CHILDREN IN THIS HOUSEHOLD MAN	CHILDREN IN THIS HOUSEHOLD MAN	HIS HOUSEHOLD MAY	D MAY	DO.				1			
CL2. CL3. CL3. CL4. Name DURING THE PAST WEEK, If ves:	CL3. CL4. DURING THE PAST WEEK, If yes:	PAST WEEK, If yes:	CL4. If yes:		CL5. At and	(TIME DUF	SUNG	CL6. During the	CL7. If ves:	CL8. During the past	CL9. If yes:
DID (<i>name</i>) DO ANY KIND	DID (name) DO ANY KIND SINCE I	DO ANY KIND SINCE I	SINCE I	AST	THE PAS	T YEAR, D	Ð	PAST WEEK, DID	SINCE LAST	WEEK, DID (name) DO	SINCE LAST
SOMEONE WHO IS NOT ABOUT 1	SOMEONE WHO IS NOT ABOUT I	IO IS NOT ABOUT I	ABOUT I	HOW MANY	KIND OI	F WORK FO	¥	HOUSEHOLD CHORES	ABOUT HOW MANY	WORK (ON THE	ABOUT HOW MANY
A MEMBER OF THIS HOURS I	A MEMBER OF THIS HOURS I	THIS HOURS I	HOURS 1	DID HE/SHE	SOMEON	VE WHO IS	NOT	SUCH AS SHOPPING,	HOURS DID HE/SHE	FARM OR HERDING	HOURS DID HE/SHI
HOUSEHOLD? DO THIS SOMEON	HOUSEHOLD? DO THIS SOMEON	DO THIS SOMEON	DO THIS SOMEON	WORK FOR JE WHO IS NOT	A MEMI HOUSEF	BER OF THE HOLD?	(0	COLLECTING FIREWOOD, CLEANING,	SPEND DOING THESE CHORES?	LIVESTOCK OR FISHING OR IN A	DO THIS WORK?
If yes: for pay in Cash or a membi	If yes: for pay in Cash or $ A MEMBI$	IV IN CASH OR A MEMBI	A MEMBI	ER OF THIS				FETCHING WATER, OR		BUSINESS OR SELLING	
KIND? HOUSEH	KIND? HOUSEH	HOUSEH	HOUSEH	OLD?	If yes: 1 C	FOR PAY IN ASH OR KIN	ND?	CARING FOR CHILDREN?		GOODS IN THE STREET?)	
1 YES, FOR PAY If more a (CASH OR KIND) If more a	1 YES, FOR PAY If more 1 (CASH OR KIND) include	The second state of the se	If more i include	han one job, all hours at	1 YES, F	OR PAY		1 YES		1 YES	
2 YES, UNPAID all jobs. 3 N0 ⇔T0 CL5	$ \begin{array}{c c} 2 \text{ YES, UNPAID} \\ 3 \text{ NO } \rightleftharpoons \text{ IO } \text{CL5} \\ \end{array} $	D all jobs.	all jobs.		CASF (CASF 2 YES, L	H OR KIND) JNPAID		2 no ⇔ to CL8		2 NO SI NEXT LINE	
Record CL.6	Record ⇔ CL.6	\Rightarrow CL.6	Record ⇔ CL.6	response then	3 NO						
YES	YES				Χ	ES					
NAME PAID UNPAID NO NO	PAID UNPAID NO NO	PAID NO NO	ON	. HOURS	PAID	UNPAID	NO	YES NO	NO. HOURS	YES NO	NO. HOURS
1 2 3	1 2 3	2 3			1	2	3	1 2		1 2	
1 2 3	1 2 3	2 3			-	2	ю	1 2		1 2	
1 2 3	1 2 3	2 3				7	ю	1 2		1 2	
1 2 3	1 2 3	2 3				2	3	1 2		1 2	
1 2 3	1 2 3	2 3			1	2	3	1 2		1 2	
1 2 3	1 2 3	2 3				2	ю	1 2		1 2	
1 2 3	1 2 3	2 3			-	2	3	1 2		1 2	
1 2 3	1 2 3	2 3			-	2	3	1 2		1 2	
1 2 3	1 2 3	2 3				2	Э	1 2		1 2	
1 2 3	1 2 3	2 3				2	ю	1 2		1 2	
1 2 3	1 2 3	2 3				7	с	1 2		1 2	
1 2 3	1 2 3	2 3			-	6	ю	1 2		1 2	
1 2 3	1 2 3	2 3				7	Э	1 2		1 2	
1 2 3	1 2 3	2 3				2	ŝ	1 2		1 2	
1 2 3	1 2 3	2 3				2	ю	1 2		1 2	

INSECTICIDE TREATED NET MODULE		ITN
TN1A What do you in your houshold to protect against malaria? Circle all responses mentioned	Sleep under a mosquito net A Keep environment clean B Drink Clean water C Drain/treat stagnant water D Burn dung/leaves/etc E Use a spray F Shake cloth to chase out mosquitoes G Other (<i>specify</i>) X Nothing Y Don't know Z	
TN1. Does your household have any mosquito nets that can be used while sleeping?	Yes1 No2	2⇒next module
TN2. How many mosquito nets does your household have? If 7 or more nets, record '7'.	Number of nets	
 TN3. Is the Net (are any of the Nets) any of the Following types: Read each type name, show picture card/ net / label and circle codes for Yes or No for each type TN3L. LONG-LASTING TREATED NETS: TN3P. PRE- TREATED NETS: TN3O. Other NETS: 	Y NDK Long-lasting treated nets:	
 TN4. Check TN3 for brand of net(s). Go through the above lis 1. □ Long-lasting treated net mentioned? ⇔ Go to TN3A 2. □ Pre-treated net mentioned? ⇔ Go to TN6 3. □ OTHER NET MENTIONED? ⇔ CONTINUE WITH TN5 4. □ IF TYPE OF NET IS UNKNOWN CONTINUE WITH TN5 	st in order until one box is checked and follow instructions:	
TN5. When you got the (most recent) net, was it already treated with an insecticide to kill or repel mosquitoes?	Yes1 No2 DK/not sure8	
TN6. How many months ago was the (most recent) net obtained? If less than 1 month ago, record '00'. If answer is "12 months" or "1 year", probe to determine if net was obtained exactly 12 months ago or earlier or later.	Months ago95 More than 24 months ago95 Not sure	
TN7. SINCE YOU GOT THE NET(S) HAS IT (HAVE ANY OF THESE NETS) EVER BEEN SOAKED OR DIPPED IN A LIQUID TO KILL/ REPEL MOSQUITOES?	Yes1 No2 DK8	2⇔TN3A 8⇔TN3A

TN8. How LONG AGO WAS THE MOST RECENT SOAKING/ DIPPING DONE? If less than 1 month, record '00'. If answer is "12 months" or "1 year", probe to determine if net was treated exactly 12 months ago or earlier or later.	Months ago95 Not sure	
TN3A. WHERE DID YOU GET THE (name of net highest in the list of nets available in the household, in TN3) MOSQUITO NET? Ask question in relation to the most effective mosquito net available in the household (Check TN3). If there is more than	Public sector Govt. hospital	
one net in the same category, ask question referring to the most recently obtained net.	Other public (specify) 16 Private medical sector 21 Private hospital/clinic	
	medical (specify)26Other sourceRelative or friend	
 TN3B. HOW MUCH DID YOU PAY FOR THE (name of net highest in the list of nets available in the household, in TN3) MOSQUITO NET? Ask question in relation to the most effective mosquito net available in the household (Check TN3). If there is more than one net in the same category, ask question referring to the most recently obtained net. 	Local currency Free	

MM	md for him/her. Indicate	MM9. How many of these dead sisters died while pregnant, or during childbirth, or	DURING THE EX WEEKS AFTER THE END OF PREGNANCY?	98= DON'T KNOW																
	another adult may respo	MM8. How many of these ever married sisters have died?	(CHECK THAT THIS NUMBER AND THE NUMBER GIVEN IN MM7 TOTAL MM6)	98= don't know																
	ese adults is not at home, ws blank	MM7. How many of these ever married sisters are alive now?	IF ALL ARE ALIVE GO TO THE NEXT LINE	98= don't know																
	he household. If one of the rs below age 15, leave ro	MM6. How many of these sisters have ever been married?	IF '0' GO TO THE NEXT LINE	98= don't know																
	dult (age 15 or over) in ti 4. For household membe	MM5. How many sisters (born to the same mother) have you ever had?	IF '0' GO TO THE NEXT LINE	98= don't know																
	e number of each a espondent in MM	MM4. Line no. of proxy respondent (from household	^v listing HL1)		LINE															
	Copy name and lin number of proxy 1	MM3. Is this a proxy report? 1 yes	⇔MM4 2 NO ⇔MM5		Y N	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2
MORTALITY MODULE	each adult household member. a '1' in MM3, and insert line	MM2. Name			NAME															
MATERNAL	Administer to this by placing	MM1. Line no.			LINE	01	02	03	04	05	06	07	08	60	10	11	12	13	14	15

SALT IODIZATION MODULE		SI
SI1. WE WOULD LIKE TO CHECK WHETHER THE SALT USED IN YOUR HOUSEHOLD IS IODIZED. MAY I SEE A SAMPLE OF THE SALT USED TO COOK THE MAIN MEAL EATEN BY MEMBERS OF YOUR HOUSEHOLD LAST NIGHT? Once you have examined the salt,	Not iodized 0 PPM1 Less than 15 PPM2 15 PPM or more3 No salt in home6	
circle number that corresponds to test outcome.	Salt not tested7	

SI2. Does any eligible woman age 15-49 reside in the household? Check household listing, column HL6.You should have a questionnaire with the Information Panel filled in for each eligible woman.

 \Box Yes. \Rightarrow Go to QUESTIONNAIRE FOR INDIVIDUAL WOMEN to administer the questionnaire to the first eligible woman.

 \square No. \Rightarrow Continue.

SI3. Does any child under the age of 5 reside in the household? Check household listing, column HL8. You should have a questionnaire with the Information Panel filled in for each eligible child.

 \Box Yes. \Rightarrow Go to QUESTIONNAIRE FOR CHILDREN UNDER FIVE to administer the questionnaire to mother or caretaker of the first eligible child.

 \Box No. \Rightarrow End the interview by thanking the respondent for his/her cooperation. Gather together all questionnaires for this household and tally the number of interviews completed on the cover page.

QUESTIONNAIRE FOR INDIVIDUAL WOMEN

WOMEN'S INFORMATION PANEL	WM
This module is to be administered to all women age 15 through 49 (Fill in one form for each eligible woman Fill in the cluster and household number, and the name and line nu	see column HL6 of HH listing). mber of the woman in the space below. Fill in your name, number and the date.
WM1. Cluster number:	WM2. Household number:
WM3. Woman's Name:	WM4. Woman's Line Number:
WM5.Interviewer name and number:	WM6. Day/Month/Year of interview:
WM7. Result of women's interview	Completed 1 Not at home 2 Refused 3 Partly completed 4 Incapacitated 5 Other (specify) 6

Repeat greeting if not already read to this woman:

We are from **(country-specific affiliation).** We are working on a project concerned with family health and education. I would like to talk to you about this. The interview will take about (60) minutes. All the information we obtain will remain strictly confidential and your answers will never be identified. Also, you are not obliged to answer any question you don't want to, and you may withdraw from the interview at any time. May I start now?

If permission is given, begin the interview. If the woman does not agree to continue, thank her, complete WM7, and go to the next interview. Discuss this result with your supervisor for a future revisit.

WM8. IN WHAT MONTH AND YEAR WERE YOU BORN?	Date of birth: Month	
	DK month	
	Year9998	
WM9. How old were you at your last birthday?	Age (in completed years)	
WM10. Have you ever attended school?	Yes1 No2	2⇒WM14
WM11. What is the highest level of school you attended: primary, secondary, or higher?	Primary1 Secondary2	
	Higher	3⇔WM14 4⇔WM14 5⇔WM14
WM12. What is the highest grade you completed at that level?	Grade	
WM14. Now I would like you to read this sentence to me.	Cannot read at all	
<i>Show sentences to respondent.</i> <i>If respondent cannot read whole sentence, probe:</i> CAN YOU READ PART OF THE SENTENCE TO ME?	Blind/mute, visually/speech impaired5	
Example sentences for literacy test:		
 The child is reading a book. The rains came late this year. Parents must care for their children. Farming is hard work. 		

MARRIAGE/UNION MODULE		MA
MA1. ARE YOU CURRENTLY MARRIED?	Yes, currently married1	2.2264.2
MA2. How old was your husband/partner on his last birthday?	Age in years	3⇔MA3
	DK98	
MA2A. BESIDES YOURSELF, DOES YOUR HUSBAND/PARTNER HAVE ANY OTHER WIVES?	Yes1 No2	2⇔MA5
	DK98	98⇒MA5
MA2b. How many other wives does he have?	Number	⇔MA5
	DK98	98⇒MA5
MA3. Have you ever been married?	Yes, formerly married1	
	No3	⇒FGM module
MA4. What is your marital status now: are you widowed or divorced?	Widowed1 Divorced2	
MA5. Have you been married only once or more than once?	Only once1 More than once2	
MA6. In what month and year did you <u>first</u> marry?	Month DK month98	
	YearDK year	
MA7. Check MA6:	1	1
□ Both month and year of marriage/uqwertyuikl;'nion known	? ⇒ Go to Next Module	
$\Box \text{ Either month or year of marriage/union not known?} \Rightarrow Column Colum$	ontinue with MA8	
MA8. How old were you when you married your first husband?	Age in years	

CHILD MORTALITY MODULE		СМ
This module is to be administered to all ever-married women ag All questions refer only to LIVE births.	ge 15-49.	
 CM1. Now I would like to ask about all the births you have had during your life. Have you ever given birth? If "No" probe by asking: 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? 	Yes1 No2	2⇔ BH13 in the birth history module
CM3. Do you have any sons or daughters to whom you have given birth who are now living with you?	Yes1 No2	2⇔CM5
CM4. How many sons live with you? How many daughters live with you?	Sons at home	
CM5. Do you have any sons or daughters to whom you have given birth who are alive but do not live with you?	Yes1 No2	2⇔CM7
CM6. How many sons are alive but do not live with you? How many daughters are alive but do not live with you?	Sons elsewhere	
CM7. Have you ever given birth to a boy or girl who was born alive but later died?	Yes1 No2	2⇔CM9
CM8. How many boys have died? How many girls have died?	Boys dead	
CM9. Sum answers to CM4, CM6, and CM8.	Sum	
 CM10. JUST TO MAKE SURE THAT I HAVE THIS RIGHT, YOU HAVE H. □ Yes. ⇒ Go to CM10A □ No. ⇒ Check responses and make corrections before proceed 	AD IN TOTAL (<i>total number</i>) BIRTHS DURING YOUR LIFE. IS THIS CO	DRRECT?

CM10A. Check CM9

 \Box One or more births \Rightarrow Go to birth history module

 \Box No births

 \Rightarrow Go to BH13 in the birth history module

BH

BIRTH HISTORY MODULE

Now I would like to record the names of all your births, whether still alive or not, starting with the **FIRST ONE YOU HAD. Record names of all the births in BH1. Record twins and triplets on separate lines**

	<u>BH1</u>	<u>BH2</u>		<u>BH3</u>			<u>BH4</u>		BH	<u>5</u>	<u>BH6</u>	<u>Bl</u> If a	H7 live	BH8	<u>BH9</u> If dead	<u>BH10</u>
	WHAT NAME WAS GIVEN TO YOUR (First/next) BABY? (name)	WERE ANY O THESE BIRTH TWINS	F	IS (nar A BOY OR A GIRL?	ne)	IN V YE/ BO Wr bir	WHAT MONTH AND AR WAS (name) RN? ube: tat is his/her thday?	<u>IS (r</u> STII	<u>name)</u> LL Al	LIVE?	HOW OLD WAS (name) AT HIS/HER LAST BIRTHDAY? Record age in completed years	IS (na LIV G WI YO	me) VIN TH DU?	Record household line number of child (record '00' if child not listed in household)	HOW OLD WAS (name) WHEN HE/SHE DIED? If '1 YR', probe: HOW MANY MONTHS OLD WAS (Name)? Record days if less than 1 month: months if less than 1 two years; or years.	WHERE THERE ANY OTHER LIVE BIRTHS BETWEEN (name of previous birth) AND (name)
<u>01</u>		Sing	1	<u>Boy</u>	1	M		Y	1	Go		Y	1	Go to next	Days 1 Months 2	
		<u>Multi</u>	2	<u>Girl</u>	2	Y		N	2	to BH9		N	2	<u>birth</u>	Years 3	
<u>02</u>		Sing	1	<u>Boy</u>	<u>1</u>	M		Y	1			Y	1		Days 1 Months 2	. <u>Y 1</u>
		<u>Multi</u>	2	<u>Girl</u>	2	Ϋ́		N	2	<u>Go</u> <u>to</u> BH9		N	2	<i>⇔BH10</i>	<u>Years</u> <u>3</u>	<u>N 2</u>
03		Sing	<u>1</u>	Boy	1	M		Y	1			Y	1		Days 1 Months 2	<u>Y 1</u>
		<u>Multi</u>	2	<u>Girl</u>	2	Y		N	2	<u>Go</u> to BH9		N	2	<i>⇔BH10</i>	<u>Years</u> <u>3</u>	<u>N 2</u>
<u>04</u>		Sing	<u>1</u>	Boy	1	M		Y	1			¥	1		Days 1 Months 2	<u>Y 1</u>
		<u>Multi</u>	2	<u>Girl</u>	2	Y		N	2	Go to BH9		N	2	<i>⇔BH10</i>	<u>Years</u> <u>3</u>	<u>N 2</u>
05		Sing	<u>1</u>	Boy	<u>1</u>	M		Y	1			Y	1		Days 1 Months 2	<u>Y 1</u>
		Multi	2	<u>Girl</u>	2	Y		N	2	Go to BH9		N	2	<i>⇔BH10</i>	<u>Years</u> <u>3</u>	<u>N 2</u>
<u>06</u>		Sing	1	Boy	1	M		Y	1			Y	1		Days 1 Months 2	<u>Y 1</u>
		Multi	2	<u>Girl</u>	2	Y		N	2	<u>Go</u> to BH9		N	2	<i>⇔BH10</i>	<u>Years</u> <u>3</u>	<u>N 2</u>
<u>07</u>		Sing	1	Boy	<u>1</u>	M		Y	1			Ϋ́	1		Days 1 Months 2	. <u>Y 1</u>
		Multi	2	<u>Girl</u>	2	Y		N	2	Go to BH9		N	2	<i>⇔BH10</i>	Years 3	<u>N 2</u>
<u>08</u>		Sing	1	Boy	1	M		Y	1	2.10		Y	1		Days 1	<u>Y 1</u>
		<u>Multi</u>	2	<u>Girl</u>	2	Y		N	2	<u>Go</u> <u>to</u> BH9		N	2	<i>⇔BH10</i>	<u>Years</u> <u>3</u>	<u>N 2</u>

	<u>BH1</u>	<u>BH2</u>		<u>BH3</u>			<u>BH4</u>		BH	5	<u>BH6</u>	B	<u>H7</u>	<u>BH8</u>	<u>BH9</u>	<u>BH10</u>
	WHAT NAME WAS GIVEN TO YOUR (First/next) BABY?	WERE ANY OF THESE BIRTHS TWINS?		IS (nan A BOY OR A GIRL?	ne)	<u>IN 1</u> YE/ BO <u>Pro</u> Wh bir	WHAT MONTH AND AR WAS (name) RN? ube: tat is his/her thday?	IS (n STII	name)	LIVE?	How old WAS (name) AT HIS/HER LAST BIRTHDAY? Record age in completed years	IS (na LI G WI YO	ame) VIN ITH DU?	Record household line number of child (record '00' if child not listed in household)	If dead HOW OLD WAS (name) WHEN HE/SHE DIED? If '1 YR', probe: HOW MANY MONTHS OLD WAS (Name)? Record days if less than 1 month; months if less than two years; or years.	WHERE THERE ANY OTHER LIVE BIRTNS BETWEEN (name of previous birth) AND (name)
<u>09</u>		<u>Sing</u>	1	<u>Boy</u>	1	M		Y	1	Go	 	Y	1	<i>⇒BH10</i>	Days 1 Months 2	<u>Y 1</u>
		Multi	2	Girl	2	Y		N	2	to BH9		N	2		Years 3	<u>N 2</u>
<u>10</u>		<u>Sing</u>	1	<u>Boy</u>	1	M		Y	1			Y	1		Days 1 0000000 Months 2 0000000 0000000	<u>Y 1</u>
		Multi	2	Girl	2	Y		N	2	Go to BH9		N	2	<i>⇔</i> BH10	Years 3	<u>N 2</u>
<u>11</u>		Sing	1	<u>Boy</u>	1	M		Y	1	0113		Y	1		Days 1 Months 2	<u>Y 1</u>
		Multi	2	Girl	2	Y		N	2	Go to		N	2	<i>⇔BH10</i>	Years 3	<u>N 2</u>
<u>12</u>		Sing	1	Boy	1	M		Y	1	DIIS		Y	1		Days 1	<u>Y 1</u>
		<u>Multi</u>	2	<u>Girl</u>	2	Y		N	2	Go to		N	2	<i>⇔BH10</i>	Years <u>3</u>	<u>N 2</u>
<u>13</u>		Sing	1	Boy	1	M		Y	1	BH9		Y	1		Days 1 Months 2	<u>Y 1</u>
		<u>Multi</u>	2	<u>Girl</u>	2	Y		N	2	Go to		N	2	<i>⇒</i> BH10	Years <u>3</u>	<u>N 2</u>
<u>14</u>		Sing	1	Boy	1	M		Y	1	BH9		Y	1		Days 1 1 Months 2 1 1	. <u>Y 1</u>
		<u>Multi</u>	2	Girl	2	Y		N	2	Go to		N	2	<i>⇔BH10</i>	<u>Years 3</u>	<u>N 2</u>
<u>15</u>		Sing	1	Boy	1	M		Y	1	DUA		Y	1		Days 1 0000000 Months 2 0000000 0000000	<u>Y 1</u>
		Multi	2	<u>Girl</u>	2	Y		N	2	Go to		N	2	<i>⇒</i> BH10	Years <u>3</u>	<u>N 2</u>
<u>16</u>		Sing	1	Boy	1	M		Y	1	<u>BH3</u>		Y	1		Days 1 1 Months 2 1 1	<u>Y 1</u>
		<u>Multi</u>	2	<u>Girl</u>	2	Y		N	2	Go to BH9		N	2	<i>⇔BH10</i>	<u>Years</u> <u>3</u>	<u>N 2</u>
<u>17</u>		Sing	1	<u>Boy</u>	1	M		Y	1	60		Y	1		Days 1 Months 2	<u>Y 1</u>
		Multi	<u>2</u>	<u>Girl</u>	2	Y		<u>N</u>	2	to BH9		N	2	→ D 1110	<u>Years</u> <u>3</u>	<u>N 2</u>

BH 11 Have you	had any live births since the birth of Name (Na	ame of last birth)?	YES	1
			NO	2
BH 11A SUM OF	TOTAL BIRTHS TOTAL STILL AL	IVETOT	AL LIVING WITH MOTHER_	
bh11b. Just to ma	KE SURE THAT ${ m I}$ have this right, you have had in to	отац (total number) в	IRTHS DURING YOUR LIFE. IS THIS CO	DRRECT?
\Box Yes. \Rightarrow Go to Bl	H11C			
\Box No. \Rightarrow Check rel	sponses and make corrections before proceeding to l	3H11C		
BH11C. OF THESE	(TOTAL NUMBER) BIRTHS, (NUMBER) ARE STILL ALIVE. IS	5 THIS CORRECT?		
\Box Yes. \Rightarrow Go to Bl	H11D			
\Box No. \Rightarrow Check rel	sponses and make corrections before proceeding to l	3H11D		
BH11D. OF THESE	(NUMBER) STILL ALIVE, (NUMBER) ARE LIVING WITH YC	OU. IS THIS CORRECT?		
\Box Yes. \Rightarrow Go to Bl	H12			
\Box No. \Rightarrow Check rel	sponses and make corrections before proceeding to l	3H12		
BH12.:Compare C.	M9 with number of births in history above and man	rk:		
D Num	bers are same			
🗆 Num	bers are different ⇒ Proi	be and reconcile		
				-
Check	For each birth:	Year of birth is re	corded	
	For each living child:	Current age is rec	corded	
	For each dead child:	Age of death is re	corded	- 60
	For age at death 12 months or 1 year: Probe	to determine exact nu	mber of months	_
BH13. Some pregn while others miscarriage?	JANCIES END BEFORE FULL TERM AS A MISCARRIAGE, MAY RESULT IN A STILLBIRTH. HAVE YOU HAD A	Yes No	1 2	2⇔ BH15
BH14. in all how miscarriage?	MANY PREGNANCIES DID YOU HAVE THAT ENDED IN A	 DK		
BH15. HAVE YOU H	AD A STILL BIRTH?	Yes No		2⇔ BH17
BH16. IN ALL HOW STILLBIRTH	MANY PREGNANCIES DID YOU HAVE THAT ENDED IN A	 DK		

TETANUS TOXOID MODULE T				
This module is to be administered to all ever-married women w	ith a live birth in the 2 years preceding date of interview.			
TT1. Do you have a card or other document with your	Yes (card seen)1			
OWN IMMUNIZATIONS LISTED?	Yes (card not seen)			
<i>If a card is presented, use it to assist with answers to the</i>				
following questions.	DK8			
TT2. When you were pregnant with your last child, did	Yes1			
YOU RECEIVE ANY INJECTION TO PREVENT HIM OR HER FROM	No2			
GETTING TETANUS, THAT IS CONVULSIONS AFTER BIRTH (AN	DK 8	2⇔115		
OR SHOULDER)?		8⇔TT5		
TT3. If yes: How many times did you receive this anti-				
TETANUS INJECTION DURING YOUR LAST PREGNANCY?	No. of times			
	DK98	98⇔TT5		
TT4. How many TT doses during last pregnancy were reported in TT3?				
□ At least two TT initiations during last meaning ⇒ Cat	North Madrida			
\Box At least two TT injections during last pregnancy. \Rightarrow Go to Next Module				
\Box Fewer than two TT injections during last pregnancy. \Rightarrow C	Continue with TT5			
TT5. DID YOU RECEIVE ANY TETANUS TOXOID INJECTION AT ANY	Yes1			
TIME BEFORE YOUR LAST PREGNANCY?	No2			
	DV P	2⇔NEXT		
	DK	MODULE 8⇒NEXT		
		MODULE		
TT6. How many times did you receive it?				
	No. of times			

Year

Years ago....._____

TT7. IN WHAT MONTH AND YEAR DID YOU RECEIVE THE LAST ANTI-TETANUS INJECTION BEFORE THAT LAST PREGNANCY?

TT8. How many years ago did you receive the last antitetanus injection before that last pregnancy?

Skip to next module only if year of injection is given.

Otherwise, continue with TT8.

⇔next Module

₽TT8

MATERNAL AND NEWBORN HEALTH MODULE		MN
This module is to be administered to all ever-married women we Check child birth history and record name of last-born child he Use this child's name in the following auestions, where indicat	with a live birth in the 2 years preceding date of interview. re red.	
MN2. DID YOU SEE ANYONE FOR ANTENATAL CARE WHEN YOU WHERE PREGNANT WITH (name)?	Health professional: Doctor	
<i>If yes:</i> Whom did you see? Anyone else?	Private doctorD NurseB	
Probe for the type of person seen and circle all answers given.	MidwifeC	
	Other person Traditional birth attendantF Relative/friendH	
	Other (<i>specify</i>) X No oneY	Y⇔MN4B
MN2A. How many months pregnant were you when you first received antenatal care for this pregnancy?	Month	
MN2B. How many times did you receive antenatal care for this pregnancy?	Number of times	
MN2C. WHICH TYPE OF HEALTH FACILITY DID YOU GO TO, TO GET THIS ANTENATAL CARE?	Hospital A MCH B Midwife C Other (specify) X None	
MN3. As part of your antenatal care, were any of the		
MN3A. WERE YOU WEIGHED? MN3B. WAS YOUR BLOOD PRESSURE MEASURED? MN3C. DID YOU GIVE A URINE SAMPLE? MN3D. DID YOU GIVE A BLOOD SAMPLE?	YesNoWeight12Blood pressure12Urine sample12Blood sample12	Go to MN6A
MN4B. What are the reasons for not seeing anyone? If more than one reason is mentioned, circle each one.	Did not feel the need to see anyone A Not convinced by the assistance B Financially not capable to see anyone C Difficulty in reaching the ANC center D Non-availability of medicaments E Other (specify) X DK Z	
MN6A. DURING THIS PREGNANCY, DID YOU TAKE ANY MEDICINE IN ORDER TO PREVENT YOU FROM GETTING MALARIA?	Yes1 No2	2⇔MN6E
	DK	8⇒MN6E
MN68. Which medicines did you take to prevent malaria?	SP/FansidarA ChloroquineB	
<i>Circle all medicines taken. If type of medicine is not determined, show typical anti-malarial to respondent.</i>	Other (specify) X DKZ	

MN6c. Check MN6B for medicine taken:		
□ SP/Fansidar taken.⇔ Continue with MN6D	\Box SP/Fansidar not taken. \Rightarrow Go to MN6E	
MN6D. How many times did you take SP/fansidar during this pregnancy to prevent malaria?	Number of times	
MN6E. DURING THIS PREGNANCY, DID YOU REGULARLY SLEEP UNDER A MOSQUITO NET?	Yes1 No2	
MN7. Who assisted with the delivery of your last child (name)?	Health professional: Doctor Gov't doctorA	
ANYONE ELSE?	Private doctorD	
Probe for the type of person assisting and circle all answers given.	MidwifeC	
	Other person Traditional birth attendantF Relative/friend/neighbourH	
	Other (<i>specify</i>) X No oneY	
MN8A. Was (name) delivered by caesarian section?	Yes1 No2	
	DK98	
MN8. WHERE DID YOU GIVE BIRTH TO (name)? If source is hospital, health center, or clinic, write the name of the place below. Probe to identify the type of source and circle the appropriate code.	Home 11 Your home 13 Midwife's home 13 Other home/relative 12 Public sector 12 Govt. hospital 21 Govt. clinic/health center 22 Other public (specify) 26	
(Name of place)	Private Medical Sector Private hospital31 Private clinic/midwives clinic32	
	Other private medical (specify)36	
	Other (specify)96	

		1
MN8B. IF DURING YOUR PREGNANCY YOU NEEDED EMERGENCY OBSTRTIC CARE WHERE WOULD YOU HAVE GONE	Home Your home	
	Private Medical Sector Private hospital	
	medical (specify)36	
	Other (specify)96	
MN9. WHEN YOUR LAST CHILD (name) WAS BORN, WAS HE/ SHE VERY LARGE, LARGER THAN AVERAGE, AVERAGE, SMALLER THAN AVERAGE, OR VERY SMALL?	Very large 1 Larger than average 2 Average 3 Smaller than average 4 Very small 5	
	DK8	
MN10. WAS (name) WEIGHED AT BIRTH?	Yes1 No2	2⇒MN11A
	DK8	8⇒MN11A
MN11. How MUCH DID (name) WEIGH? Record weight from health card, if available.	From card 1 (kilograms) From recall 2 (kilograms)	
	DK99998	
MN11A. Now I would like to ask you some questions about the 40 days period after the delivary of (name). Did you see anyone for a check-up on your health?	Doctor Gov't doctorA Private doctorB	
If 'Yes' ask: Whom did you see? Anyone else?	NurseC Midwife	
	Other (specify) X No oneY	Y⇔ MN11C
MN11B. WHERE DID YOU RECEIVE YOUR POST-NATAL CHECKUP? Probe for the type of health facility seen and circle all answers	Hospital A MCH. B Midwife clinic C Doctor's clinic. D Other X	MN11G

MN11C. WHAT WAS THE MAIN REASON FOR NOT RECIEVEING A	No complications1	
POST-NATAL CHECKUP?	Able to manage from experience	
	Unaware of importance of check-up	
	Service not available 4	
	Costs too much 5	
	Too hugy 6	
	I bush and the last	
	Husband too busy7	
	Other (<i>specify</i>)96	
	DV	
	DK8	
MN11G. In the first 40 days after your last birth [the	Yes1	
birth of name], did you receive a Vitamin A dose	No2	
LIKE THIS?	DK8	
Show 200,000 IU capsule or dispenser.		
MN12. Did you ever breastfeed (name)?	Yes1	
	No	2⇒ MN14A
MN13. How long after birth did you first put (name) to	Immediately000	
THE BREAST?		
	Hours1	
If less than 1 hour, record '00' hours.	or	
<i>If less than 24 hours, record hours.</i>	Days2	
Otherwise, record days.		
, ,	Don't know/remember	
NOW I WOULD LIKE TO TALK ABOUT SOME SPECIFIC HEALTH		
PROBLEMS RELATED TO BIRTH SOME WOMEN HAVE. I WILL		
ASK YOU ABOUT THE TIME AFTER YOUR LAST DELIVARY AND		
IN THE 40 DAYS FOLLOWING IT.	Yes No	
MNI14A DED VOLLHAVE FEVED?		
IVIIN14A. DID YOU HAVE FEVER?		
MIN14B. DID YOU HAVE TROUBLE CONTROLLING YOUR URINE?	MINI4A. FEVER? 1 2	
	MN14B. URINE TROUBLE?1 2	
DID YOU SUFFER FROM ANY OF THE FOLLOWING?		
NIN14C. URINARY TRACT INFECTION?		
MN14D. MASTITIS?		
MN14E. OFFENSIVE DISCHARGE?	MN14C. UTI? 1 2	
MN14H. TEAR/INJURY TO THE GENITAL AREA?	MN14D. mastitis? 1 2	
MN14F. WOUND INFECTION?	MN14E. discharge? 1 2	
MN14G. HEMORRHAGE?	MN14H. TEAR/INJURY? 1 2	
MN14I. POST DELIVERY DEPRESSION?	MN14F. WOUND INFECTION? 1 2	
	MN14G. HEMORRHAGE? 1 2	
MN14J. DID YOU SUFFER FROM ANY OTHER PROBLEMS?	MN14I. DEPRESSION? 1 2	
(Specify)		
	MN14J other	

CONTRACEPTION MODULE		СР
The following questions apply only to currently married wom	en.	
Check MA1 in the Marriage Module. Woman is currently ma	urried?	
\Box Yes. \Rightarrow Continue with CP1		
\Box No. \Rightarrow Go to Domestic Violence Module		
CP1. Now I would like to talk about family health and		
CHILD SPACING	Yes, currently pregnant1	1⇔ CP4B
Are you pregnant now?	No	
	Unsure or DK8	
CP2. Are you currently doing something or using any	Yes1	
METHOD TO SPACE YOUR CHILDREN?	No2	2⇒ CP4A
CP3. WHICH METHOD ARE YOU USING?		
Do not moment	IUDD	
Do not prompt. If more than one method is mentioned, circle each one	Condom	
1) more than one method is mentioned, circle each one.	Dianbragm	
	Foam/ielly I	
	Lactational amenorrhoea	
	method (LAM)K	K⇔CP4A
	Periodic abstinenceL	L⇔CP4A
	WithdrawalM	M⇔CP4A
	Other (specify) X	X⇔CP4A
CP3A WHERE DID YOU OBTAIN (CURRENT METHOD) THE LAST	Public sector	
1 INIE :	Govt health centre 12	
	Govt health post	
	Village health worker 14	
	Mobile/outreach clinic	
	Other public (specify) 16	
	Private medical sector	
	Private hospital/clinic21	
	Private physician	
	Private pharmacy23	
	Mobile clinic24	
	Other private	
	medical (<i>specify</i>)25	
	Other source inside country	
	Relative or friend	
	Shop	
	11 autonal practitioner	
	Other source outside country	
	Relative or friend	
	Shop	
	1	
	Other (specify)96	
	DK98	

CP4A. Now I would like to ask some questions about the future. Would you like to have (a/another) child, or would you prefer not to have any (more)	Have (a/another) child1	
CHILDREN?	No more/none2	2.3 &8
CP4B. If currently pregnant: Now I would like to ask some questions about the future. After the child you are now expecting, would you like to have another child, or would you prefer not to have any (more) children?	Says she cannot get pregnant3 Undecided/don't know8	⇒NEXT MODULE
CP4c. How long would you like to wait before the birth of (A/ANOTHER) CHILD?	Months1	
	Years2	
	Soon/now	

ATTITUDES TOWARD DOMESTIC VIOLENCE MOI	DULE			DV
DV1. Sometimes a husband is annoyed or angered by things that his wife does. In your opinion, is a husband iustified in hitting or beating his wife in the				
FOLLOWING SITUATIONS:				
DV1A. IF SHE GOES OUT WITH OUT TELLING HIM?				
DV1B. IF SHE NEGLECTS THE CHILDREN?				
DV1c. If she argues with him?	Yes	No	DK	
DV1d. If she refuses sex with him?	Goes out without telling1	2	8	
DV1e. If she burns the food?	Neglects children1	2	8	
	Argues1	2	8	
	Refuses sex1	2	8	
	Burns food1	2	8	

FEMALE GENITAL MUTILATION/CUTTING MODU	ILE F	G
FG3. NOW I WOULD LIKE TO TALK TO YOU ABOUT FEMALE CIRCUMCISION. HAVE YOU YOURSELF EVER BEEN	Yes1 No2	2⇒FG8
CIRCUMCISED?		
FG4. Now I would like to ask you what was done to you at this time.	Yes	1⇒FG6
Was any flesh removed from the genital area?	DK8	
FG5. Was the genital area just nicked without removing any flesh?	Yes1 No2 DK8	
FG6. Was the genital area sewn closed (or 'sealed')?	Yes1 No2 DK8	
FG8. The following questions apply only to women who have a Check CM4 and CM6, Child Mortality Module: Woman has h	it least one living daughter. iving daughter?	
\Box Yes. \Rightarrow Continue with FG9		
\Box No. \Rightarrow Go to FG16		
FG9. HAVE ANY OF YOUR DAUGHTERS BEEN CIRCUMCISED?	Number of daughters circumcised:	
IF YES, HOW MANY?	No daughters circumcised 00	00⇔FG16
FG10. To which of your daughters did this happen most recently? Record the daughter's name.	Name of daughter:	
FG11. Now I would like to ask you what was done to <i>(name)</i> at that time.	Yes1 No2	1⇔FG13
WAS ANY FLESH REMOVED FROM THE GENITAL AREA?	DK8	
FG12, Was the genital area just nicked without removing any flesh?	Yes	
	DK8	
FG13. Was the genital area sewn closed (or 'sealed')?	Yes1 No2	
	DK8	
FG14. How old was (name) when this occurred? If the respondent does not know the age, probe to get an estimate.	Daughter's age at circumcision	
	DK	
FG16. Do you think this practice should be continued or should it be discontinued?	Continued. .1 Depends. .3 Discontinued. .2	2□next
	DK8	MODULE
FG16A What type of circumcision should be continued?	Pharonic1 Intermediate2 Sunna3 DK8	

HIV/AIDS MODULE		HA
HA1. Now I would like to talk with you about something else. Have you ever heard of the virus HIV or an illness called AIDS?	Yes1 No2	End the interview
HA2. CAN PEOPLE PROTECT THEMSELVES FROM GETTING INFECTED WITH THE AIDS VIRUS BY HAVING ONE SEX PARTNER WHO IS NOT INFECTED AND ALSO HAS NO OTHER PARTNERS?	Yes1 No2 DK8	
HA3. CAN PEOPLE GET INFECTED WITH THE AIDS VIRUS BECAUSE OF WITCHCRAFT OR OTHER SUPERNATURAL MEANS?	Yes1 No2 DK8	
HA4. CAN PEOPLE REDUCE THEIR CHANCE OF GETTING THE AIDS VIRUS BY USING A CONDOM EVERY TIME THEY HAVE SEX?	Yes1 No2 DK8	
HA5. CAN PEOPLE GET THE AIDS VIRUS FROM MOSQUITO BITES?	Yes1 No2 DK8	
HA6. CAN PEOPLE REDUCE THEIR CHANCE OF GETTING INFECTED WITH THE AIDS VIRUS BY NOT HAVING SEX AT ALL?	Yes1 No2 DK8	
HA7. CAN PEOPLE GET THE AIDS VIRUS BY SHARING FOOD WITH A PERSON WHO HAS AIDS?	Yes1 No2 DK8	
HA8. IS IT POSSIBLE FOR A HEALTHY-LOOKING PERSON TO HAVE THE AIDS VIRUS?	Yes1 No2 DK8	
HA9. Can the AIDS virus be transmitted from a mother to a baby?	Yes No	
HA9a. During pregnancy? HA9b. During delivery? HA9c. By breastfeeding?	During pregnancy	
HA10. IF A FEMALE TEACHER HAS THE AIDS VIRUS BUT IS NOT SICK, SHOULD SHE BE ALLOWED TO CONTINUE TEACHING IN SCHOOL?	Yes1 No2 DK/not sure/depends8	
HA11. Would you buy fresh vegetables from a shopkeeper or vendor if you knew that this person had the AIDS virus?	Yes	
HA12. IF A MEMBER OF YOUR FAMILY BECAME INFECTED WITH THE AIDS VIRUS, WOULD YOU WANT IT TO REMAIN A SECRET?	Yes	

HA13. IF A MEMBER OF YOUR FAMILY BECAME SICK WITH THE AIDS VIRUS, WOULD YOU BE WILLING TO CARE FOR HIM OR HER IN YOUR HOUSEHOLD?	Yes1 No2 DK/not sure/depends8	
HA15. I do not want to know the results, but have you ever been tested to see if you have HIV, the virus that causes AIDS?	Yes1 No2	2⇔HA18
HA16. I do not want you to tell me the results of the test, but have you been told the results?	Yes1 No2	
HA17. DID YOU, YOURSELF, ASK FOR THE TEST, WAS IT OFFERED TO YOU AND YOU ACCEPTED, OR WAS IT REQUIRED?	Asked for the test	End the interview
HA18. At this time, do you know of a place where you can go to get such a test to see if you have the AIDS virus?	Yes1 No2	END THE INTERVIEW

QUESTIONNAIRE FOR CHILDREN UNDER FIVE

UNDER-FIVE CHILD INFORMATION PANEL		
This questionnaire is to be administered to all mothers or caretakers (see household listing, column HL8) who care for a child that lives with them and is under the age of 5 years (see household listing, column HL5). A separate questionnaire should be used for each eligible child. Fill in the cluster and household number, and names and line numbers of the child and the mother/caretaker in the space below. Insert your own name and number, and the date.		
UF1. Cluster number:	UF2. Household number:	
UF3. Child's Name:	UF4. Child's Line Number:	
UF5. Mother's/Caretaker's Name:	UF6. Mother's/Caretaker's Line Number:	
UF7. Interviewer name and number:	UF8. Day/Month/Year of interview:	
UF9. Result of interview for children under 5	Completed1 Not at home	
(Codes refer to mother/caretaker.)	Refused	

Repeat greeting if not already read to this respondent:

We are from (country-specific affiliation). We are working on a project concerned with family health and education. I would like to talk to you about this. The interview will take about (45) minutes. All the information we obtain will remain strictly confidential and your answers will never be identified. Also, you are not obliged to answer any question you don't want to, and you may withdraw from the interview at any time. May I start now?

If permission is given, begin the interview. If the respondent does not agree to continue, thank him/her and go to the next interview. Discuss this result with your supervisor for a future revisit.

UF10. Now I would like to ask you some questions about						
The health of each child under the age of 5 in your	Date of birth:					
CARE, WHO LIVES WITH YOU NOW.	Day					
Now I want to ask you about (name).	DK day98					
In what month and year was (name) born?						
Probe:	Month					
WHAT IS HIS/HER BIRTHDAY?						
	Year					
<i>If the mother/caretaker knows the exact birth date, also enter</i>						
the day; otherwise, circle 98 for day.						
UF11. How old was (name) at his/her last birthday?						
Record age in completed years.	Age in completed years					
BIRTH REGISTRATION AND EARLY LEARNING M	ODULE					BR
---	---	---	----------------------	-------	---------------------------------	---
BR1. Does (name) have a birth certificate? May I see it?	Yes, seen Yes, not seen				1 2 3	1⇔BR5
	DK				8	5 - 5 - 5
BR2. Has (name's) birth been registered with a notary or the municipality? or any other authorities?	Notary Municipality Othe No DK				1 2 3 4 8	$1 \Rightarrow BR5$ $2 \Rightarrow BR5$ $3 \Rightarrow BR5$ $4 \Rightarrow BR3$ $8 \Rightarrow BR5$
BR3. WHY IS (name's) BIRTH NOT REGISTERED?	Costs too much . Must travel too ! Did not know it Does not know y Do not see the n Other (<i>specify</i>) _ DK	far should be where to re eed to	registere egister	d	1 2 3 5 7 6 8	
BR5. Check age of child in UF11: Child is 3 or 4 years old? \Box Yes. \Rightarrow Continue with BR6 \Box No. \Rightarrow Go to BR8						
BR6. Does (<i>name</i>) Attend any organized learning or Early childhood education programme, such As a private or government facility, including	Yes No				1	2⇔BR8
KINDERGARTEN OR COMMUNITY CHILD CARE?	DK				8	8⇔BR8
BR7. WITHIN THE LAST SEVEN DAYS, ABOUT HOW MANY HOURS DID (<i>name</i>) ATTEND?	No. of hours				<u></u>	
BR8. 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>):						
<i>If yes, ask:</i> who engaged in this activity with the child - the mother, the child's father or another adult member of the household (including the caretaker/ respondent)?						
<i>Circle all that apply.</i>		Mother	Father	Other	No one	
BR8A. READ BOOKS OR LOOK AT PICTURE BOOKS WITH (name)?	Books	А	В	Х	Y	
BR8b. Tell stories to (name)?	Stories	А	В	Х	Y	
BR8c. Sing songs with (name)?	Songs	А	В	Х	Y	
BR8d. Take (<i>name</i>) outside the home, compound, yard or enclosure?	Take outside	А	В	Х	Y	
BR8E. PLAY WITH (name)?	Play with	А	В	Х	Y	
BR8F. Spend time with (<i>name</i>) NAMING, COUNTING, AND/OR DRAWING THINGS?	Spend time with	А	В	Х	Y	

VITAMIN A MODULE		VA
VA1. Has (<i>name</i>) ever received a vitamin A capsule (supplement) like this one?	Yes1 No2	2⇔NEXT MODULE
Show capsule or dispenser for different doses – 100,000 IU for those 6-11 months old, 200,000 IU for those 12-59 months old.	DK8	8⇔next Module
VA2. How many months ago did (<i>name</i>) take the last dose?	Months ago98	
VA3. WHERE DID (name) GET THIS LAST DOSE?	On routine visit to health facility	
	DK8	

BREASTFEEDING MODULE		BF
BF1. HAS (name) EVER BEEN BREASTFED?	Yes1 No2	2⇔BF3
	DK8	8⇔BF3
BF2. IS HE/SHE STILL BEING BREASTFED?	Yes1	
	No2	
	DK8	
BF3. Since this time yesterday, did he/she receive any of the following:		
Read each item aloud and record response before proceeding to the next item.	Y N DK	
BF3A. VITAMIN, MINERAL SUPPLEMENTS OR MEDICINE?	A. Vitamin supplements1 2 8	
BF3b. plain water?	B. Plain water	
BF3C. SWEETENED, FLAVOURED WATER OR	C. Sweetened water or juice1 2 8	
BF3D. ORAL REHYDRATION SOLUTION (ORS)?	D. ORS	
BF3E. INFANT FORMULA?	E. Infant formula 1 2 8	
BF3F. TINNED, POWDERED OR FRESH MILK?	F. Milk	
BF3G. ANY OTHER LIQUIDS?	G. Other liquids1 2 8	
BF3H. SOLID OR SEMI-SOLID (MUSHY) FOOD?	H. Solid or semi-solid food1 2 8	
BF4. Check BF3H: Child received solid or semi-solid (mushy) □ Yes. ⇔ Continue with BF5	food?	1
\Box No or DK. \Rightarrow Go to Next Module		

BF5. Since this time yesterday, how many times did (<i>name</i>) eat solid, semisolid, or soft foods other than liquids?	No. of times Don't know	
If 7 or more times, record '7'.		

CARE OF ILLNESS MODULE		CA
CA1. Has (name) had diarrhoea in the last two	Yes1	
WEEKS, THAT IS, SINCE (day of the week) OF THE WEEK		
BEFORE LAST? Diarrhoea is determined as perceived by mother or	No2	2⇔CA5
caretaker, or as three or more loose or watery stools per	DK8	8⇔CA5
day, or blood in stool.		
CA1A. Was blood ever present in this diarhoea?	Yes1 No2	
	DK8	
CA2 DURING THIS LAST EPISODE OF DIARRHOFA DID		
(name) DRINK ANY OF THE FOLLOWING:		
Read each item aloud and record response before		
proceeding to the next item.		
CA2A A ELLID MADE FROM A SPECIAL PACKET CALLED (local	Yes No DK	
name for ORS packet solution)?		
CA2b. Government-recommended homemade fluid	A. Fluid from ORS packet1 2 8	
(SUCH AS SUGAR – SALT SOLUTION, RICE WATER ETC.)? CA2c A DEE-DACKACED ORS ELUID FOR DIARPHOEA?		
CA2C, THRE-FACKAGED OND FEELD FOR DIARNIOEA;	B. Recommended homemade fluid1 2 8	
	C. Pre-packaged ORS fluid1 2 8	
CA3 A. DURING (<i>name's</i>) ILLNESS, DID HE/SHE BREASTFEED?	Yes	
	DK 8	
CA3. DURING (<i>name's</i>) ILLNESS, DID HE/SHE DRINK MUCH	Much less or none	
LESS, ABOUT THE SAME, OR MORE THAN USUAL?	About the same (or somewhat less)2	
	More	
	DK8	
CA4. DURING (name's) ILLNESS, DID HE/SHE EAT LESS,	None1	
ABOUT THE SAME, OR MORE FOOD THAN USUAL?	Much less	
If "less", probe:	About the same	
MUCH LESS OR A LITTLE LESS?	More5	
	DK8	
CA5. Has (name) had an illness with a cough at any	Yes1	
TIME IN THE LAST TWO WEEKS, THAT IS, SINCE (<i>day of the</i>	No2	2⇒CA12
<i>week)</i> of the week before last?	DK8	8⇒CA12
CA6. WHEN (name) HAD AN ILLNESS WITH A COUGH, DID	Yes1	
HE/SHE BREATHE FASTER THAN USUAL WITH SHORT,	No2	2⇔CA12
QUICK BREATHS OR HAVE DIFFICULTY BREATHING?	DK8	8⇒CA12
CA7. WERE THE SYMPTOMS DUE TO A PROBLEM IN THE CHEST	Problem in chest1	
OR A BLOCKED NOSE?	Blocked nose	2⇔CA12
	Other (specify)6	
	DK	6⇔CA12
CA8. DID YOU SEEK ADVICE OR TREATMENT FOR THE ILLNESS	Yes1	2⇒CA10
OUISIDE INE NOME:	1102	27 CAIU
	DK8	8⇔CA10

CA9. FROM WHERE DID YOU SEEK CARE?	Public sector	
	Govt. hospitalA	
Anywhere else?	Govt. health centreB	
	Govt. health postC	
Circle all providers mentioned,	Village health workerD	
but do NOT prompt with any suggestions.	Other public (<i>specify</i>) H	
	Private medical sector	
<i>If source is hospital, health center, or clinic, write the</i>	Private hospital/clinic I	
name of the place below. Probe to identify the type of	Private physician J	
source and circle the appropriate code.	Private pharmacyK	
	Other private	
(Name of place)	medical (specify)O	
	Othernessen	
	Deleting of the last	
	Char	
	SnopQ	
	Iraditional practitionerK	
	Othor (cnacify) X	
	Sulei (specify) X	
CA10. WAS (<i>name</i>) GIVEN MEDICINE TO TREAT THIS ILLNESS?	Yes1	
	No2	2⇔CA12
	DK8	8⇔CA12
CA11. WHAT MEDICINE WAS (name) GIVEN?	AntibioticA	
Circle all medicines given.	Paracetamol/Panadol/AcetaminophenP	
	AspirinQ	
	IbupropfenR	
	Other (specify) X	
	DK	
	Z	
CA12. Check UF11: Child aged under 3?		
\Box Yes. \Rightarrow Continue with CA13		
\Box No. \Rightarrow Go to CA14		
CA13. THE LAST TIME (name) PASSED STOOLS, WHAT WAS	Child used toilet/latring 01	
DONE TO DISPOSE OF THE STOOLS?	Clind used tonet/ latime	
	Put/rinsed into toilet or latrine	
	Put/rinsed into toilet or latrine	
	Put/rinsed into toilet or latrine	
	Put/rinsed into toilet or latrine	
	Put/rinsed into toilet or latrine	
	Put/rinsed into toilet or latrine	
	Put/rinsed into toilet or latrine	

· · · · ·	DR EACH MOTHER/CARETAKER	
CA14. 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? 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 fast breathing. E Child has difficult breathing. E Child has blood in stool F Child is drinking poorly. G Child has diarrhea. I Other (specify) X DK. Z	
CA15. What ARE THE SYMPTOMS OR SIGNS OF MALARIA? Circle all symptoms mentioned.	Fever/sweatsA HeadachesB Chills/shiversC NeckacheD Weakness/tirednessE Loss of appetiteF Bitterness in the mouthG Vomiting/NauseaH Others (specify)X DKZ	
MALARIA MODULE FOR UNDER-FIVES		ML
ML1. IN THE LAST TWO WEEKS, THAT IS, SINCE (day of the	Yes1	
<i>week)</i> OF THE WEEK BEFORE LAST, HAS (<i>name</i>) BEEN ILL WITH A FEVER? ML2. WAS (<i>name</i>) SEEN AT A HEALTH FACILITY DURING THIS	No2 DK8 Yes1	2⇔ML10 8⇔ML10
<i>week)</i> of the week before last, has (<i>name</i>) been ill with a fever? ML2. Was (<i>name</i>) seen at a health facility during this illness?	No	2⇔ML10 8⇔ML10 2⇔ML10 8⇔ML10
<i>week</i>) of the week before last, has (name) been ill with a fever? ML2. Was (name) seen at a health facility during this illness? ML3. Did (name) take a medicine for fever or malaria that was provided or prescribed at the health facility?	No	2⇔ML10 8⇔ML10 2⇒ML10 8⇔ML10 2⇔ML10 8⇔ML10

2⇔NEXT MODULE 8⇔NEXT MODULE

IMMUNIZATION MODULE								IM
<i>If an immunization card is available, copy the dates in IM2-IM8 for each type of immunization or vitamin A dose recorded on the card.</i> <i>IM10-IM18 are for recording vaccinations that are not recorded on the card. IM10-IM18 will only be asked when a card is not available.</i>								
IM1. IS THERE A VACCINATION CARD FOR (name)?	Yes, seen1		1				
		Yes, 1	not seen			•••••	2	2⇔IM10 3⇔IM10
(<i>a</i>) Copy dates for each vaccination from the	card.	100						0 / 11/10
(b) Write '44' in day column if card shows the	at vaccination	Date	of Immunizat	ion				_
was given but no date recorded.		DAY:	MON	NTH :	YEAF	R:		
IM2. BCG	BCG							-
IM3A. Polio at birth	OPV0							
IM3в. Рошо 1	OPV1							
IM3с. Роцо 2	OPV2							
ІМЗр. Роцо З	OPV3							
IM4A. DPT1	DPT1							
IM4b. DPT2	DPT2							
IM4c. DPT3	DPT3							-
IM6. MEASLES (OR MMR)	MEASLES							-
IM8A. VITAMIN A (1)	VITA1							-
IM8b. Vitamin A (2)	VITA2							
IM9. IN ADDITION TO THE VACCINATIONS AND VI	TAMIN A							
CAPSULES SHOWN ON THIS CARD, DID (name	?) RECEIVE	Yes	a for paccinatio	ne and aprita			1	1⇔IM18A
RECEIVED IN CAMPAIGNS OR IMMUNIZATION	DAYS?	corres	ponding day co	ns unu write olumn on IM2	2 to IM8B.	.)		
Record 'Yes' only if respondent mentions BCG	, OPV 0-3,		1 0 5			·		
DPT 1-3, Hepatitis B 1-3, Measles, Yellow Fea	ver vaccine(s),	No			•••••	•••••	2	2⇒IM18A
		DK					8	8⇔IM18A
IM10. HAS (<i>name</i>) EVER RECEIVED ANY VACCINA	TIONS TO	Yes					1	
PREVENT HIM/ HER FROM GETTING DISEASES,	INCLUDING	No	•••••			•••••	2	2⇔IM18A
DAY?		DK					8	8⇔IM18A
IM11. HAS (name) EVER BEEN GIVEN A BCG VA	CCINATION	Yes					1	
AGAINST TUBERCULOSIS - THAT IS, AN INJECT	TION IN THE	No					2	
ARM OR SHOULDER THAT CAUSED A SCAR:		DK					8	
IM12. HAS (name) EVER BEEN GIVEN ANY "VAC	CINATION	Yes					1	
DROPS IN THE MOUTH" TO PROTECT HIM/HE	R FROM	No				•••••	2	2⇔IM15
GETTING DISEASES - THAT IS, POLIO?		DK					8	8⇒IM15
IM13. How old was he/she when the first e – Just After Birth (Within two weeks) of	OSE WAS GIVEN	Just a	ıfter birth (wit	hin two wee	ks)		1	
		Later					2	

IM14. How many times has he/she been given these drops?	No. of times	
IM15. HAS (<i>name</i>) EVER BEEN GIVEN "DPT VACCINATION INJECTIONS" – THAT IS, AN INJECTION IN THE THIGH OR	Yes1 No2	
BUTTOCKS – TO PREVENT HIM/ HER FROM GETTING TETANUS, WHOOPING COUGH, DIPHTHERIA? (SOMETIMES GIVEN AT THE SAME TIME AS POLIO)	DK8	2⇔IM17 8⇔IM17
IM16. How many times?		
	No. of times	
IM17. HAS (name) EVER BEEN GIVEN "MEASLES VACCINATION	Yes1	
INJECTIONS" OR MMR – THAT IS, A SHOT IN THE ARM AT	No2	
THE AGE OF 9 MONTHS OR OLDER - TO PREVENT HIM/ HER FROM GETTING MEASLES?	DK8	
Ask the following questions (IM 18A, IM 18B, IM 18C IM18I	<i>)</i> only once for each mother/caretaker	
IM 18 A. HAVE YOU EVER HEARD OF A DISEASE CALLED POLIO?	Yes1	
	No	2⇒IM18D
	DK8	8⇔IM18D
IM 18b. Do you agree to receiving repeat doses of polio	Yes1	
VACCINES EVERY MONTH?	NO2 DK 8	
IM 18C HAVE YOU EVER REFUSED TO VACCINATE ONE OF YOUR	NEVER 1	
CHILDREN AGAINST POLIO DISEASE?	Once	
	Several times	
	FatherA	
IM $18D$. Who in the household takes the decision to	MotherB	
VACCINATE THE CHILD?	GrandparentsC	
	Others (specify)D	

IM20. Does another eligible child reside in the household for whom this respondent is mother/caretaker? Check household listing, column HL8.

 \Box Yes. \Rightarrow End the current questionnaire and then

Go to QUESTIONNAIRE FOR CHILDREN UNDER FIVE to administer the questionnaire for the next eligible child.

 \Box No. \Rightarrow End the interview with this respondent by thanking him/her for his/her cooperation.

If this is the last eligible child in the household, go on to ANTHROPOMETRY MODULE.

ANTHROPOMETRY MODULE AN		
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.		
AN1. Child's weight.		
	Kilograms (kg)	
AN2. Child's length or height.		
Check age of child in UF11:		
\Box Child under 2 years old. \Rightarrow Measure length (lying down).	Length (cm)	
	Lying down1	
\Box Child age 2 or more years. \Rightarrow Measure height (standing		
<i>up</i>).	Height (cm)	
	Standing up2	
AN3. Measurer's identification code.		
	Measurer code	
AN4. Result of measurement.	Measured1	
	Not present2	
	Refused3	
	Other (<i>specify</i>)6	

AN5. Is there another child in the household who is eligible for measurement?

 $\square Yes. \Rightarrow Record measurements for next child.$

 \Box No. \Rightarrow 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.