



Multiple Indicator Cluster Survey

(2016 - 17)

Survey Finding Report

Nigeria

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NATIONAL BUREAU OF STATISTICS



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World Health Organization

The fifth round Multiple Indicator Cluster Survey (MICS5) was carried out in 2016/2017 by the National Bureau of Statistics (NBS) in collaboration with the National Primary Health Care Development Agency (NPHCDA) and National Agency for the Control of Aids (NACA), as part of the global MICS programme. Technical support was provided by the United Nations Children’s Fund (UNICEF) while World Health Organization (WHO), World Bank, Save One Million Live (SOML), Bill and Melinda Gates Foundation, United Nations Population Funds (UNFPA) and UNICEF provided financial support.

The global MICS programme was developed by UNICEF in the 1990s as an international household survey programme to support countries in the collection of internationally comparable data on a wide range of indicators on the situation of children and women. MICS surveys measure key indicators that allow countries to generate data for use in policies and programmes, and to monitor progress towards the Sustainable Development Goals (SDGs) and other internationally agreed upon commitments. The Nigeria MICS5 provided opportunity for strengthening of national statistical capacity by providing technical guidance on data gathering, quality of survey information, statistical tracking and analysis. MICS5 contributed to the improvement of data and monitoring systems in Nigeria and strengthened technical expertise in the design, implementation and analysis of such systems. In addition, MICS5 provided statistics to complement and assess the quality of data from recent national surveys such as Nigerian General Household Panel Survey (NGHPS) and National Demographic and Health Survey (NDHS) conducted by National Population Commission (NPopC).

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Summary Table of Survey Implementation and the Survey Population, Multiple Indicator Cluster Survey, Nigeria 2016-17

Child mortality				
Early childhood mortality				
MICS Indicator		Indicator	Description	Valuea
1.1	SDG 3.2.2	Neonatal mortality rate	Probability of dying within the first month of life	39
1.2	MDG 4.2	Infant mortality rate	Probability of dying between birth and the first birthday	70
1.3		Post-neonatal mortality rate	Difference between infant and neonatal mortality rates	31
1.4		Child mortality rate	Probability of dying between the first and the fifth birthdays	54
1.5	SDG 3.2.1	Under-five mortality rate	Probability of dying between birth and the fifth birthday	120

Nutrition			
Nutritional status			
MICS		Indicator	Description
Indicator			
2.1a	MDG 1.8	Underweight prevalence	Percentage of children under age 5 who fall below
2.1b		(a) Moderate and severe	(a) minus two standard deviations (moderate and severe)
		(b) Severe	(b) minus three standard deviations (severe)
2.2a	SDG 2.2.1	Stunting prevalence	Percentage of children under age 5 who fall below
2.2b		(a) Moderate and severe	(a) minus two standard deviations (moderate and severe)
		(b) Severe	(b) minus three standard deviations (severe)
2.3a	SDG 2.2.2	Wasting prevalence	Percentage of children under age 5 who fall below
2.3b		(a) Moderate and severe	(a) minus two standard deviations (moderate and severe)
		(b) Severe	(b) minus three standard deviations (severe)
2.4	SDG 2.2.2	Overweight prevalence	Percentage of children under age 5 who are above two standard deviations of the median weight for height of the WHO standard
Breastfeeding and infant feeding			
2.5		Children ever breastfed	Percentage of women with a live birth in the last 2 years who breastfed their last live-born child at any time
2.6		Early initiation of breastfeeding	Percentage of women with a live birth in the last 2 years who put their last newborn to the breast within one hour of birth
2.7		Exclusive breastfeeding under 6 months	Percentage of infants under 6 months of age who are exclusively breastfed
2.8		Predominant breastfeeding under 6 months	Percentage of infants under 6 months of age who received breast milk as the predominant source of nourishment during the previous day
2.9		Continued breastfeeding at 1 year	Percentage of children age 12-15 months who received breast milk during the previous day
2.1		Continued breastfeeding at 2 years	Percentage of children age 20-23 months who received breast milk during the previous day
2.11		Median duration of breastfeeding	The age in months when 50 percent of children age 0-35 months did not receive breast milk during the previous day
2.12		Age-appropriate breastfeeding	Percentage of children age 0-23 months appropriately fed during the previous day
2.13		Introduction of solid, semi-solid or soft foods	Percentage of infants age 6-8 months who received solid, semi-solid or soft foods during the previous day
2.14		Milk feeding frequency for non-breastfed children	Percentage of non-breastfed children age 6-23 months who received at least 2 milk feedings during the previous day
2.15		Minimum meal frequency	Percentage of children age 6-23 months who received solid, semi-solid and soft foods (plus milk feeds for non-breastfed children) the minimum number of times or more during the previous day
2.16		Minimum dietary diversity	Percentage of children age 6-23 months who received foods from 4 or more food groups during the previous day
2.17a		Minimum acceptable diet	(a) Percentage of breastfed children age 6-23 months who had at least the minimum dietary diversity and the minimum meal frequency during the previous day
2.17b			(b) Percentage of non-breastfed children age 6-23 months who received at least 2 milk feedings and had at least the minimum dietary diversity not including milk feeds and the minimum meal frequency during the previous day
2.18		Bottle feeding	Percentage of children age 0-23 months who were fed with a bottle during the previous day
Salt iodization			
2.19		Iodized salt consumption	Percentage of households with salt testing 15 parts per million or more of iodide/iodate
Low-birthweight			
2.2		Low-birthweight infants	Percentage of most recent live births in the last 2 years weighing below 2,500 grams at birth
2.21		Infants weighed at birth	Percentage of most recent live births in the last 2 years who were weighed at birth

Child health				
Vaccinations				
MICS Indicator	Indicator	Description	Value	
3.1		Tuberculosis immunization coverage	Percentage of children age 12-23 months who received BCG vaccine by their first birthday	55
3.2		Polio immunization coverage	Percentage of children age 12-23 months who received the third dose of OPV vaccine (OPV3) by their first birthday	33
3.3		Pentavalent immunisation coverage	Percentage of children age 12-23 months who received the third dose of Pentavalent (DPT3) by their first birthday	33
3.4	MDG 4.3	Measles immunization coverage	Percentage of children age 12-23 months who received measles vaccine by their first birthday	42
3.7		Yellow fever immunization coverage	Percentage of children age 12-23 months who received yellow fever vaccine by their first birthday	39
3.8	SDG 3.b.1	Full immunization coverage	Percentage of children age 12-23 months who received all vaccinations recommended in the national immunization schedule by their first birthday (measles by second birthday)	23
Tetanus toxoid				
	3.9	Neonatal tetanus protection	Percentage of women age 15-49 years with a live birth in the last 2 years who were given at least two doses of tetanus toxoid vaccine within the appropriate interval prior to the most recent birth	55.3
Diarrhoea				
-		Children with diarrhoea	Percentage of children under age 5 with diarrhoea in the last 2 weeks	14.3
3.1		Care-seeking for diarrhoea	Percentage of children under age 5 with diarrhoea in the last 2 weeks for whom advice or treatment was sought from a health facility or provider	26.7
3.11		Diarrhoea treatment with oral rehydration salts (ORS) and zinc	Percentage of children under age 5 with diarrhoea in the last 2 weeks who received ORS and zinc	18.5
3.12		Diarrhoea treatment with oral rehydration therapy (ORT) and continued feeding	Percentage of children under age 5 with diarrhoea in the last 2 weeks who received ORT (ORS packet, pre-packaged ORS fluid, recommended homemade fluid or increased fluids) and continued feeding during the episode of diarrhoea	33.4
Acute Respiratory Infection (ARI) symptoms				
-		Children with ARI symptoms	Percentage of children under age 5 with ARI symptoms in the last 2 weeks	3
3.13		Care-seeking for children with ARI symptoms	Percentage of children under age 5 with ARI symptoms in the last 2 weeks for whom advice or treatment was sought from a health facility or provider	23.7
3.14		Antibiotic treatment for children with ARI symptoms	Percentage of children under age 5 with ARI symptoms in the last 2 weeks who received antibiotics	22.5
Solid fuel use				
3.15	SDG 7.1.2	Use of solid fuels for cooking	Percentage of household members in households that use solid fuels as the primary source of domestic energy to cook	80.6

Malaria / Fever				
MICS		Indicator	Description	Value
Indicator				
-		Children with fever	Percentage of children under age 5 with fever in the last 2 weeks	25.4
3.16a		Household availability of insecticide-treated nets (ITNs)	Percentage of households with	
3.16b			(a) at least one ITN	
			(b) at least one ITN for every two people	64.5
				31.7
3.18	MDG 6.7	Children under age 5 who slept under an ITN	Percentage of children under age 5 who slept under an ITN the previous night	49.1
3.19		Population that slept under an ITN	Percentage of household members who slept under an ITN the previous night	40.9
3.2		Care-seeking for fever	Percentage of children under age 5 with fever in the last 2 weeks for whom advice or treatment was sought from a health facility or provider	63.4
3.21		Malaria diagnostics usage	Percentage of children under age 5 with fever in the last 2 weeks who had a finger or heel stick for malaria testing	13.8
3.22	MDG 6.8	Anti-malarial treatment of children under age 5	Percentage of children under age 5 with fever in the last 2 weeks who received any antimalarial treatment	36.8
3.23		Treatment with Artemisinin-based Combination Therapy (ACT) among children who received anti-malarial treatment	Percentage of children under age 5 with fever in the last 2 weeks who received ACT (or other first-line treatment according to national policy) among children who received anti-malarial treatment	20.6
3.24		Pregnant women who slept under an ITN	Percentage of pregnant women who slept under an ITN the previous night	39.6
3.25		Intermittent preventive treatment for malaria during pregnancy	Percentage of women age 15-49 years who received three or more doses of SP/Fansidar, at least one of which was received during an ANC visit, to prevent malaria during their last pregnancy that led to a live birth in the last 2 years	14.9

Water and sanitation				
MICS		Indicator	Description	Value
Indicator				
4.1	SDG 6.1.1	Use of improved drinking water sources	Percentage of household members using improved sources of drinking water	64.1
4.2		Water treatment	Percentage of household members in households using unimproved drinking water who use an appropriate treatment method	2.3
4.3	MDG 7.9 SDG 1.4.1	Use of improved sanitation	Percentage of household members using improved sanitation facilities which are not shared	35.9
4.4	SDG 6.2.1	Safe disposal of child's faeces	Percentage of children age 0-2 years whose last stools were disposed of safely	58.1
4.5	SDG 6.1.2	Place for handwashing	Percentage of households with a specific place for hand washing where water and soap or other cleansing agent are present	12.4
4.6		Availability of soap or other cleansing agent	Percentage of households with soap or other cleansing agent	42
4.S1		Quality of drinking water at the households	Percentage of household members drinking water contaminated by <i>E. Coli</i> in the drinking water of the household	90.8
4.S2		Quality at the source of household drinking water	Percentage of household members drinking water contaminated by <i>E. Coli</i> at the source of drinking water	77.3
4.S3	SDG 6.1.1	Use of safely managed drinking water sources	Percentage of household members with an improved drinking water source located on premises, free of <i>E. coli</i> and available when needed	3.8

Reproductive health				
Contraception and unmet need				
MICS		Indicator	Description	Value
Indicator				
-		Total fertility rate	Total fertility rate for women age 15-49 years	5.8
5.1	SDG 3.7.2	Adolescent birth rate	Age-specific fertility rate for women age 15-19 years	120
5.2		Early childbearing	Percentage of women age 20-24 years who had at least one live birth before age 18	30.8
5.3	MDG 5.3	Contraceptive prevalence rate	Percentage of women age 15-49 years currently married or in union who are using (or whose partner is using) a (modern or traditional) contraceptive method	13.4
5.4	SDG 3.7.1	Unmet need	Percentage of women age 15-49 years who are currently married or in union who are fecund and want to space their births or limit the number of children they have and who are not currently using contraception	27.6
Maternal and newborn health				
5.5a	MDG 5.5 MDG 5.5	Antenatal care coverage	Percentage of women age 15-49 years with a live birth in the last 2 years who were attended during their last pregnancy that led to a live birth	
5.5b			(a) at least once by skilled health personnel	
			(b) at least four times by any provider	
				65.8
				49.1
5.6		Content of antenatal care	Percentage of women age 15-49 years with a live birth in the last 2 years who had their blood pressure measured and gave urine and blood samples during the last pregnancy that led to a live birth	53.6
5.7	SDG 3.1.2	Skilled attendant at delivery	Percentage of women age 15-49 years with a live birth in the last 2 years who were attended by skilled health personnel during their most recent live birth	43
5.8		Institutional deliveries	Percentage of women age 15-49 years with a live birth in the last 2 years whose most recent live birth was delivered in a health facility	37.5
5.9		Caesarean section	Percentage of women age 15-49 years whose most recent live birth in the last 2 years was delivered by caesarean section	2.8
Post-natal health checks				
5.1		Post-partum stay in health facility	Percentage of women age 15-49 years who stayed in the health facility for 12 hours or more after the delivery of their most recent live birth in the last 2 years	50.5
5.11		Post-natal health check for the newborn	Percentage of last live births in the last 2 years who received a health check while in facility or at home following delivery, or a post-natal care visit within 2 days after delivery	37.1
5.12		Post-natal health check for the mother	Percentage of women age 15-49 years who received a health check while in facility or at home following delivery, or a post-natal care visit within 2 days after delivery of their most recent live birth in the last 2 years	37.1

Child development

MICS	Indicator	Description	Value
Indicator			
6.1	Attendance to early childhood education	Percentage of children age 36-59 months who are attending an early childhood education programme	35.6
6.2	Support for learning	Percentage of children age 36-59 months with whom an adult has engaged in four or more activities to promote learning and school readiness in the last 3 days	62.8
6.3	Father's support for learning	Percentage of children age 36-59 months whose biological father has engaged in four or more activities to promote learning and school readiness in the last 3 days	10.8
6.4	Mother's support for learning	Percentage of children age 36-59 months whose biological mother has engaged in four or more activities to promote learning and school readiness in the last 3 days	28.1
6.5	Availability of children's books	Percentage of children under age 5 who have three or more children's books	5.6
6.6	Availability of playthings	Percentage of children under age 5 who play with two or more types of playthings	45.7
6.7	Inadequate care	Percentage of children under age 5 left alone or in the care of another child younger than 10 years of age for more than one hour at least once in the last week	31.7
6.8 SDG	Early child	Percentage of children age 36-59 months who are developmentally on track in at least three of the following four domains: literacy	61.2

Literacy and education				
MICS		Indicator	Description	Value
Indicator				
7.1	MDG 2.3	Literacy rate among young people	Percentage of young people age 15-24 years who are able to read a short simple statement about everyday life or who attended secondary or higher education	
			(a) women	
			(b) men	
				59.3
				70.9
7.2		School readiness	Percentage of children in first grade of primary school who attended pre-school during the previous school year	39.2
7.3		Net intake rate in primary education	Percentage of children of school-entry age who enter the first grade of primary school	39.4
7.4	SDG 4.1.2	Primary school net attendance ratio (adjusted)	Percentage of children of primary school age currently attending primary or secondary school	60.9
7.5	SDG 4.1.1	Secondary school net attendance ratio (adjusted)	Percentage of children of secondary school age currently attending secondary school or higher	46.9
7.6	MDG 2.2	Children reaching last grade of primary	Percentage of children entering the first grade of primary school who eventually reach last grade	94.1
7.7		Primary completion rate	Number of children attending the last grade of primary school (excluding repeaters) divided by number of children of primary school completion age (age appropriate to final grade of primary school)	63
7.8		Transition rate to secondary school	Number of children attending the last grade of primary school during the previous school year who are in the first grade of secondary school during the current school year divided by number of children attending the last grade of primary school during the previous school year	49
7.9	SDG 4.5.1	Gender parity index (primary school)	Primary school net attendance ratio (adjusted) for girls divided by primary school net attendance ratio (adjusted) for boys	0.95
	MDG 3.1		Secondary school net attendance ratio (adjusted) for girls divided by secondary	

Child protection			
Birth registration			
MICS Indicator	Indicator	Description	Value
8.1 SDG 16.9.1	Birth registration	Percentage of children under age 5 whose births are reported registered	46.8
Child labour			
8.2 SDG 8.7.1	Child labour	Percentage of children age 5-17 years who are involved in child labour	50.8
Child discipline			
8.3 SDG 16.2.1	Violent discipline	Percentage of children age 1-14 years who experienced psychological aggression or physical punishment during the last one month	84.9
Early marriage and polygyny			
8.4 SDG 5.3.1	Marriage before age 15	Percentage of people age 15-49 years who were first married or in union before age 15	
		(a) Women	
		(b) Men	
			18.5
			2.2
8.5 SDG 5.3.1	Marriage before age 18	Percentage of people age 20-49 years who were first married or in union before age 18	
		(a) Women	
		(b) Men	
			44.1
			6
8.6	Young people age 15-19 years currently married or in union	Percentage of young people age 15-19 years who are married or in union	
		(a) Women	
		(b) Men	
			22.2
			0
8.7	Polygyny	Percentage of people age 15-49 years who are in a polygynous union	
		(a) Women	
		(b) Men	
			36.9
			18.7
8.8a	Spousal age difference	Percentage of young women who are married or in union and whose spouse is 10 or more years older,	
8.8b		(a) among women age 15-19 years,	
		(b) among women age 20-24 years	

Female genital mutilation/cutting

8.9	Approval for female genital mutilation/cutting (FGM/C)	Percentage of women age 15-49 years who state that FGM/C should be continued	21.6
8.10 SDG 5.3.2	Prevalence of FGM/C among women	Percentage of women age 15-49 years who report to have undergone any form of FGM/C	18.4
8.11	Prevalence of FGM/C among girls	Percentage of daughters age 0-14 years who have undergone any form of FGM/C, as reported by mothers age 15-49 years	25.3

Attitudes towards domestic violence

8.12	Attitudes towards domestic violence	Percentage of people age 15-49 years who state that a husband 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	
		(a) Women	
		(b) Men	
			33.7
			21.5

Children's living arrangements

8.13	Children's living arrangements	Percentage of children age 0-17 years living with neither biological parent	7.5
8.14	Prevalence of children with one or both parents dead	Percentage of children age 0-17 years with one or both biological parents dead	6.9
8.15	Children with at least one parent living abroad	Percentage of children 0-17 years with at least one biological parent living abroad	0.1

HIV/AIDS and sexual behaviour				
HIV/AIDS knowledge and attitudes				
MICS	Indicator	Indicator	Description	Value
Indicator				
-		Have heard of AIDS	Percentage of people age 15-49 years who have heard of AIDS	
			(a) Women	
			(b) Men	83.4
				92.8
9.1	MDG 6.3	Knowledge about HIV prevention among young people	Percentage of young people age 15-24 years who correctly identify ways of preventing the sexual transmission of HIV, and who reject major misconceptions about HIV transmission	
			(a) Women	
			(b) Men	
				29.3
				27.9
9.2		Knowledge of mother-to-child transmission of HIV	Percentage of people age 15-49 years who correctly identify all three means of mother-to-child transmission of HIV	
			(a) Women	
			(b) Men	
				50.7
			45	
9.3		Accepting attitudes towards people living with HIV	Percentage of people age 15-49 years expressing accepting attitudes on all four questions toward people living with HIV	
			(a) Women	
			(b) Men	
				8.3
				14.3

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HIV testing			
9.4	People who know where to be tested for HIV	Percentage of people age 15-49 years who state knowledge of a place to be tested for HIV	
		(a) Women	
		(b) Men	
			60.4
			70.8
9.5	People who have been tested for HIV and know the results	Percentage of people age 15-49 years who have been tested for HIV in the last 12 months and who know their results	
		(a) Women	
		(b) Men	
			15.1
			15.1
9.6	Sexually active young people who have been tested for HIV and know the results	Percentage of young people age 15-24 years who have had sex in the last 12 months, who have been tested for HIV in the last 12 months and who know their results	
		(a) Women	
		(b) Men	
			16.7
			17.2
9.7	HIV counselling during antenatal care	Percentage of women age 15-49 years who had a live birth in the last 2 years and received antenatal care during the pregnancy of their most recent birth, reporting that they received counselling on HIV during antenatal care	41
9.8	HIV testing during antenatal care	Percentage of women age 15-49 years who had a live birth in the last 2 years and received antenatal care during the pregnancy of their most recent birth, reporting that they were offered and accepted an HIV test during antenatal care and received their results	34.7

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Sexual behaviour				
9.9	Young people who have never had sex	Percentage of never married young people age 15-24 years who have never had sex	(a) Women	
			(b) Men	
				74.8
				78.4
9.1	Sex before age 15 among young people	Percentage of young people age 15-24 years who had sexual intercourse before age 15	(a) Women	
			(b) Men	
				15.1
				4.1
9.1	Age-mixing among sexual partners	Percentage of women age 15-24 years who had sex in the last 12 months with a partner who was 10 or more years older		41.2
9.1	Multiple sexual partnerships	Percentage of people age 15-49 years who had sexual intercourse with more than one partner in the last 12 months	(a) Women	
			(b) Men	
				2
				11.2

9.1		Condom use at last sex among people with multiple sexual partnerships	Percentage of people age 15-49 years who report having had more than one sexual partner in the last 12 months who also reported that a condom was used the last time they had sex	
			(a) Women	
			(b) Men	
				33.3
				35.3
9.1		Sex with non-regular partners	Percentage of sexually active young people age 15-24 years who had sex with a non-marital, non-cohabitating partner in the last 12 months	
			(a) Women	
			(b) Men	
				12.4
				17.1
9.2	MDG 6.2	Condom use with non-regular partners	Percentage of young people age 15-24 years reporting the use of a condom during the last sexual intercourse with a non-marital, non-cohabiting sex partner in the last 12 months	
			(a) Women	
			(b) Men	
				46.6
				61.4

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Orphans				
9.2	MDG 6.4	Ratio of school attendance of orphans to school attendance of non-orphans	Proportion attending school among children age 10-14 years who have lost both parents divided by proportion attending school among children age 10-14 years whose parents are alive and who are living with one or both parents	1.01
Male circumcision				
9.17		Male circumcision	Percentage of men age 15-49 years who report having been circumcised	98.5

Access to mass media and ICT			
Access to mass media			
MICS Indicator	Indicator	Description	Value
10.1	Exposure to mass media	Percentage of people age 15-49 years who, at least once a week, read a newspaper or magazine, listen to the radio, and watch television	
		(a) Women	
		(b) Men	
			5.5
			18.5
Use of information/communication technology			
10.2	Use of computers	Percentage of young people age 15-24 years who used a computer during the last 12 months	
		(a) Women	
		(b) Men	
			13.4
			20.6
10.3 S.D.G. 17.8.1	Use of internet	Percentage of young people age 15-24 years who used the internet during the last 12 months	
		(a) Women	
		(b) Men	
			17.3
			32

Subjective well-being			
MICS	Indicator	Description	Value
Indicator			
11.1	Life satisfaction	Percentage of young people age 15-24 years who are very or somewhat satisfied with their life, overall	
		(a) Women	
		(b) Men	
			88.5
			89.6
11.2	Happiness	Percentage of young people age 15-24 years who are very or somewhat happy	
		(a) Women	
		(b) Men	
			91
			90.7
11.3	Perception of a better life	Percentage of young people age 15-24 years whose life improved during the last one year, and who expect that their life will be better after one year	
		(a) Women	
		(b) Men	
			71.1
			71.6

Tobacco and alcohol use			
Tobacco use			
MICS Indicator	Indicator	Description	Value
12.1 S.D.G. 3.a.1	Tobacco use	Percentage of people age 15-49 years who smoked cigarettes, or used smoked or smokeless tobacco products at any time during the last one month	
		(a) Women	
		(b) Men	
			0.3
			6.9
12.2	Smoking before age 15	Percentage of people age 15-49 years who smoked a whole cigarette before age 15	
		(a) Women	
		(b) Men	
			0.2
			1.6
Alcohol use			
12.3 SDG 3.a.1	Use of alcohol	Percentage of people age 15-49 years who had at least one alcoholic drink at any time during the last one month	
		(a) Women	
		(b) Men	
			6.4
			19.4
12.4	Use of alcohol before age 15	Percentage of people age 15-49 years who had at least one alcoholic drink before age 15	
		(a) Women	
		(b) Men	
			3.3
			5.5

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List of Abbreviations

AIDS	Acquired Immune Deficiency Syndrome
ANC	Antenatal Care
APP	Agricultural Promotion Policy
BCG	Bacillus Calmette-Guérin (Tuberculosis)
BMGF	Bill and Melinda Gates Foundation
BNPC	Budget and National Planning Commission
CAPI	Computer Assisted Personal Interviewing
CBN	Central Bank of Nigeria
CDC	Centers for Disease Control and Prevention
CRC	Convention on the Rights of the Child
CEDAW	Convention on the Elimination of All Forms of Discrimination against Women
CSPRO	Census and Survey Processing System
DFID	Department for International Development
DPT	Diphtheria Pertussis Tetanus
ECCD	Early Childhood Care and Development
ECDI	Early Child Development Index
EPI	Expanded Programme on Immunization
FGM/C	Female genital mutilation/cutting
GPI	Gender Parity Index

HIV	Human Immunodeficiency Virus
ICT	Information and Communications Technology
IDD	Iodine Deficiency Disorders
ITN	Insecticide Treated Net
IUD	Intrauterine Device
JMP	Joint Monitoring Programme
LAM	Lactational Amenorrhea Method
LLIN	Long-Lasting Insecticidal Net
MCV	Measles Containing Vaccines
MDAs	Ministries, Departments and Agencies
MDG	Millennium Development Goals
MICS	Multiple Indicator Cluster Survey
MICS5	Fifth global round of Multiple Indicator Clusters Surveys programme
MoH	Ministry of Health
MOV	Missed opportunity for Vaccination
NACA	National Agency for the Control of AIDS
NAR	Net Attendance Rate
NBS	National Bureau of Statistics
NDHS	National Demographic and Health Survey
NGHIPS	Nigerian General Household Panel Survey
NISH	National Integrated Survey of Households
NPHCDA	National Primary Health Care Development Agency
NPopC	National Population Commission
PNC	Post-natal Care
Ppm	Parts Per Million
ORT	Oral rehydration treatment
SDG	Sustainable Development Goals
SFR	Survey Finding Report
SOML	Save One Million Live
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
UNIO	United Nations and International Organizations
VIP	Ventilated Improved Pit
WB	World Bank
WCARO	West and Central Africa Regional Office
WFFC	World Fit for Children
WHO	World Health Organization

Acknowledgements

The Multiple Indicator Cluster Survey (MICS) is a primary source of information on women and children as it provides statistical indicators that are critical for the measurement of human development. It is an international household survey programme developed by United Nations Children's Fund (UNICEF). The MICS is designed to collect statistically sound and internationally comparable estimates of key indicators that are used to assess the situation of children and women in the areas of health, education, child protection and HIV/AIDS. It can also be used as a data collection tool to generate data for monitoring the progress towards national goals and global commitments which aimed at promoting the welfare of children and women such as MDGs and SDGs.

The first in the series of the Multiple Indicator Cluster Survey (MICS1) in Nigeria was conducted in 1995 by the Federal Office of Statistics (FOS), now National Bureau of Statistics (NBS), with technical and funding assistance from UNICEF. Since then, MICS has been institutionalized within the National Integrated Survey of Households (NISH) in the National Bureau of Statistics, as a process of collecting regular, reliable and timely social statistics. The second and third rounds of MICS were conducted in 1999 and 2007 respectively. The fourth round of MICS conducted in 2011 was better planned and executed than the previous rounds. The 2016-17 round (MICS5) consolidated on the achievement of MICS4 by providing data for more indicators, introduced the use of CAPI device and further raise the quality of the data collected as acknowledged by UNICEF regional and headquarters offices.

The current round of MICS has been expanded in content and scope to include questionnaires for individual men and water quality test. New modules were also introduced such as tobacco and alcohol use, life satisfaction, access to mass media and use of information and communication technology. Another innovation introduced in the MICS 2016-17 also included the pilot testing of further analysis and disaggregation of state data up to senatorial district levels (as can be seen in Lagos and Kano states) with the aim of providing data that can be used for better planning and programming at the grassroots. The climax of the new innovations was the successful combination and implementation of two National surveys (The Multiple Indicator Cluster Survey and the National Immunization Coverage Survey - MICS/NICS) jointly executed together.

Apart from MICS being a major source of data for indicators related to development and improvement of well-being of children, women and men in Nigeria, another key concern of MICS is to improve statistical systems and this is the reason why key players in the Nigeria Statistical Systems participated in the planning and execution of the MICS5.

In presenting this Survey Finding Report (SFR) of MICS5, we wish to express our gratitude and appreciation to all those who contributed directly or indirectly in designing, conducting the survey, preparing this report and releasing its results; from the staff of the National Bureau of Statistics (NBS) to the members of the National Steering and Technical Committees on MICS5 which cut across various Ministries, Departments and Agencies (MDAs), which include the National Primary Health Care Development Agency (NPHCDA), the National Agency for the Control of AIDS (NACA), the Sustainable Development Goals (SDG) Office, the National Population Commission, Central Bank of Nigeria, the

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I. Introduction

Background

This report is based on the Multiple Indicator Cluster Survey (MICS), conducted between September 2016 and January 2017 by National Bureau of Statistics (NBS), with technical and financial support from UNICEF, WHO, UNFPA, Bill and Melinda Gates Foundation, Save One Million Lives and NACA. The survey provides statistically sound and internationally comparable data essential for developing evidence-based policies and programmes, and for monitoring progress toward national goals and global commitments. Among these global commitments are those emanating from the World Fit for Children Declaration and Plan of Action, the goals of the United Nations General Assembly Special Session on HIV/AIDS, the Education for All Declaration and the Millennium/Sustainable Development Goals (MDGs/SDGs).

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 capacity-building 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 of the World Fit for Children (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.”

The Federal Government of Nigeria has made several efforts directed toward the achievement of the objectives and aspirations expressed in the Sustainable Development Goals (SDGs), the World Fit for Children Goals, the UNICEF Country Programme, the Convention on the Rights of the Child (CRC) and the

Convention on the Elimination of All Forms of Discrimination against Women (CEDAW), among others. The Government has in recent times launched a number of development initiatives to improve the economic and social life of its people. The Change agenda of the present Government and Vision 20: 2020 are developed to create employment, increase and stabilise electricity power supply, improve social and economic infrastructure and provide enabling environment for local and foreign investments and to become one of the twenty leading economies in the world by year 2020. The Agricultural Promotion Policy (APP) is to rejuvenate and redirect building an agribusiness ecosystem that will take Nigeria out of food importation and able to earn significant foreign exchange from agriculture.

The National Bureau of Statistics (NBS) with strong financial and technical support from International Development partners and donors like UNICEF, UNFPA and DFID among others has been involved in National effort to achieve the goals through provision of relevant data to monitor, evaluate and advise necessary adjustment in development programmes. The Nigeria Multiple Indicator Cluster Survey 2016-17 has been designed to measure achievements of MDGs and provide baseline for SDGs. More specifically, MICS 2016-17 will assist UNICEF in monitoring and evaluating its country programmes including those on child survival, development, protection and rights of children, women and men.

Survey Objectives

The primary objectives of Multiple Indicator Cluster Survey (MICS) Nigeria 2016-17 are:

- To provide up-to-date information for assessing the situation of children and women in Nigeria;
- To generate data for the critical assessment of the progress made in various programme areas, and to identify areas that require more attention;
- To contribute to the generation of baseline data for the SDG;
- To furnish data needed for monitoring progress toward goals established in the post Millennium Declaration and other internationally agreed goals, as a basis for future action;
- To provide disaggregated data to identify disparities among various groups to enable evidence based actions aimed at social inclusion of the most vulnerable;

II. Sample and Survey Methodology

Sample Design

The sample for the Nigeria MICS 2016-17 was designed to provide estimates for a large number of indicators on the situation of children and women at the national, rural/urban, states as well as the 6 geopolitical zones of Nigeria. The states within each zone were identified as the main sampling Strata while the Enumeration Areas (EAs) within each state were identified as the Primary Sampling Units (PSUs). The EAs for the survey were selected from the National Integrated Survey of Households round 2 (NISH2) master sample, based on a list of EAs prepared for the 2006 Population Census. Two stage sampling was conducted with the first stage

being the selection of EAs within the strata while the second stage was the selection of households within each EAs.

Within each Stratum, 60 EAs were selected systematically with Probability Proportional to Size (PPS), apart from Lagos and Kano states where 120 EAs (respectively) were sampled. The larger sample size for Lagos and Kano states was based on requests by the respective State governments to have sufficient sample to enable disaggregation of indicators at senatorial district level. After a household listing was carried out within the selected EAs, a systematic sample of sixteen (16) households was drawn in each sample EA. The sample was stratified by state and is not self-weighting. However, for reporting of results, sample weights were applied. Out of 2340 EAs selected for coverage, 2,239 were listed and covered during the fieldwork period. A total of 101 EAs could not be enumerated because they were inaccessible due to insecurity especially in Borno, Yobe and Adamawa states. A more detailed description of the sample design can be found in Appendix A,

The Nigeria MICS 2016-17 was implemented jointly with the National immunisation Coverage Survey (NICS) which was designed to provide estimates of vaccine coverage for the country. However, the sample size for MICS 2016-17 was not sufficient to estimate state level vaccination coverage for children aged 12 to 23 months in twenty states, namely: Abia, Akwa ibom, Anambra, Bayelsa, Benue, Cross River, Delta, Edo, Ekiti, Enugu, Imo, Kogi, Kwara, Ogun, Ondo, Osun, Oyo, Plateau, Rivers and FCT (Abuja). Consequently, supplemental sampling was conducted to meet the requirements for vaccine coverage estimation, in the twenty states.

Questionnaires

Four sets of questionnaires were used in the MICS 2016-17:

1. Household questionnaire - used to collect basic demographic information on all the household members (usual residents) and household characteristics;
2. Individual women questionnaire - administered in each household to all women age 15-49 years;
3. Individual men questionnaire - administered to all men age 15-49 years in every other (one in every two) households;
4. Under-5 children questionnaire - administered to mothers or caretakers of all children under 5 years of age¹ living in sampled households.

The Household Questionnaire included the following modules:

- Household Information Panel
- List of Household Members
- Education
- Child Labour
- Child Discipline
- Household Characteristics
- Insecticide Treated Nets
- Water and Sanitation
- Handwashing
- Salt Iodization
- Water Quality Test

Individual Women questionnaire included the following modules:

¹ The terms “children under 5”, “children age 0-4 years”, and “children age 0-59 months” are used interchangeably in this report.

- Woman Information Panel
- Woman's Background
- Access to Mass Media and Use of Information/Communication Technology
- Fertility/Birth History
- Desire for Last Birth
- Maternal and Newborn Health
- Post-natal Health Checks
- Illness Symptoms
- Use of Contraception
- Unmet Need for Contraception
- Female Genital Mutilation/Cutting
- Attitudes Toward Domestic Violence
- Marriage/Union
- Sexual Behaviour
- HIV/AIDS
- Tobacco and Alcohol Use
- Life Satisfaction

Individual Men questionnaire included the following modules:

- Man Information Panel □ Man's Background
- Access to Mass Media and Use of Information/Communication Technology
- Fertility
- Attitudes Toward Domestic Violence
- Marriage/Union □ Sexual Behaviour
- HIV/AIDS
- Circumcision
- Tobacco and Alcohol Use
- Life Satisfaction

Under 5 Children questionnaire included the following modules:

- Under Five Information Panel
- Age
- Birth Registration
- Early Childhood Development
- Breastfeeding and Dietary Intake
- Immunization
- Care of Illness
- Anthropometry

The questionnaires are based on the MICS5 questionnaire² model (English version), customised and pretested in Cross River, Enugu, Gombe, Lagos, Kaduna, Kano, Nasarawa and Oyo states in April, 2016. Based on the results of the pre-test, modifications were made to the wording of the questionnaires. A copy of the Nigeria MICS questionnaires is provided in Appendix F.

In addition to the administration of questionnaires, salt iodization and water quality tests were conducted. Weight and height of children age under 5 years were also measured.. Details of the tests and measurements are provided in the respective sections of the report.

Training and Fieldwork

Training for the fieldwork was conducted for thirty-one (31) days in August 2016. Training included lectures on interviewing techniques and contents of the questionnaires. Mock interviews among trainees were also

² The model MICS5 questionnaires can be found at <http://mics.unicef.org/tools#survey-design>.

conducted to gain practice in asking questions. Towards the end of the training period, trainees spent 2 days in field practice in purposively selected residential areas in 2 communities in each of the 6 training locations in Keffi (Nasarawa state), Gombe (Gombe state), Kano (Kano state), Enugu (Enugu state), Ikeja (Lagos state) and Calabar (Cross River state).

The data were collected by 78 teams; each team comprised four interviewers, one driver, one measurer and a supervisor. Fieldwork began in September, 2016 and concluded in January 2017.

Using Computer Assisted Personal Interviewing (CAPI), the data were electronically captured from the field and transmitted to a central server, using CSPro CAPI application, Version 5.0. Being the first time of using CAPI, the programme was pretested to know the effectiveness and efficiency of the device. Using CAPI to capture data helps in reducing error associated with paper questionnaire such as omission and skipping errors.

Data Processing

Data were analysed using the Statistical Package for Social Scientists (SPSS) software, Version 21. Model syntax and tabulation plans developed by UNICEF MICS team were customized and used for this purpose.

III. Sample Coverage and the Characteristics of Households and Respondents

Sample Coverage

Out of 37,440 households sampled, 35,747 households were visited, 34,289 were found to be occupied and 33,901 were successfully interviewed, representing household response rate of 98.9 percent.

In the interviewed households, 36,176 women (age 15-49 years) were identified. Of these, 34,376 were successfully interviewed, yielding a response rate of 95.0 percent within the interviewed households.

The survey also sampled men (age 15-49), but required only a subsample. All men (age 15-49) were identified in 17,868 household selected for the men questionnaire of which. 16,514 men (age 15-49 years) were listed in the household questionnaires. Questionnaires were completed for 15,183 eligible men, which corresponds to a response rate of 91.9 percent within eligible interviewed households.

There were 28,578 children under age five listed in the household questionnaires. Questionnaires were completed for 28,085 of these children, which corresponds to a response rate of 98.3 percent within interviewed households.

Overall response rates of 93.9, 90.9 and 97.2 are calculated for the individual interviews of women, men, and under-5s, respectively (Table HH.1).

Table HH.1: Results of household, women's, men's and under-5 interviews

Number of households, women, men, and children under 5 by interview results, and household, women's, men's and under-5's response rates, Nigeria, 2016-17

	Residence			Geopolitical zone					
	Total	Urban	Rural	North Central	North East	North West	South East	South South	South West
Households									
Sampled	37,440	12,240	25,200	6,720	5,760	7,680	4,800	5,760	6,720
Actual Coverage	35,747	11,991	23,756	6,552	4,620	7,586	4,752	5,626	6,611
Occupied	34,289	11,311	22,978	6,318	4,447	7,424	4,593	5,387	6,120
Interviewed	33,901	11,104	22,797	6,244	4,396	7,395	4,524	5,354	5,988
Household response rate	98.9	98.2	99.2	98.8	98.9	99.6	98.5	99.4	97.8
Women									
Eligible	36,176	11,689	24,487	7,462	5,469	9,765	3,753	4,918	4,809
Interviewed	34,376	10,965	23,411	7,013	5,223	9,376	3,645	4,728	4,391
Women's response rate	95.0	93.8	95.6	94.0	95.5	96.0	97.1	96.1	91.3
Women's overall response rate	93.9	92.1	94.9	92.9	94.4	95.6	95.7	95.5	89.3
Men									
Eligible	16,514	5,450	11,064	3,468	2,559	4,356	1,568	2,253	2,310
Interviewed	15,183	4,890	10,293	3,184	2,452	3,935	1,481	2,173	1,958
Men's response rate	91.9	89.7	93.0	91.8	95.8	90.3	94.5	96.4	84.8
Men's overall response rate	90.9	88.1	92.3	90.7	94.7	90.0	93.0	95.9	82.9
Children under 5									
Eligible	28,578	7,612	20,966	5,474	4,855	9,662	2,399	3,187	3,001
Mothers/caretakers interviewed	28,085	7,471	20,614	5,347	4,733	9,519	2,383	3,172	2,931
Under-5's response rate	98.3	98.1	98.3	97.7	97.5	98.5	99.3	99.5	97.7
Under-5's overall response rate	97.2	96.4	97.5	96.5	96.4	98.1	97.8	98.9	95.6

Table HH.1: Results of household, women's, men's and under-5 interviews (continued)

Number of households, women, men, and children under 5 by interview results, and household, women's, men's and under-5's response rates, Nigeria, 2016-17

State	Sampled	Household				Women				Men				Children under 5			
		Actual coverage	Occupied	Interviewed	Household response rate	Eligible	Interviewed	Women's response rate	Women's overall response rate	Eligible	Interviewed	Men's response rate	Men's overall response rate	Eligible	Mothers/caretakers interviewed	Under-5's response rate	Under-5's overall response rate
Abia	960	960	921	899	97.6	700	663	94.7	92.5	309	271	87.7	85.6	459	453	98.7	96.3
Adamawa	960	845	832	823	98.9	1,007	972	96.5	95.5	493	480	97.4	96.3	764	741	97.0	95.9
Akwa Ibom	960	959	952	950	99.8	1,026	1,007	98.1	97.9	464	451	97.2	97.0	756	756	100.0	99.8
Anambra	960	960	920	898	97.6	812	783	96.4	94.1	332	314	94.6	92.3	509	504	99.0	96.6
Bauchi	960	959	952	952	100.0	1,193	1,183	99.2	99.2	536	529	98.7	98.7	1,172	1,168	99.7	99.7
Bayelsa	960	936	881	878	99.7	816	769	94.2	93.9	345	330	95.7	95.3	556	552	99.3	98.9
Benue	960	924	898	889	99.0	946	878	92.8	91.9	445	402	90.3	89.4	682	667	97.8	96.8
Borno	960	304	292	289	99.0	425	412	96.9	95.9	180	177	98.3	97.3	390	385	98.7	97.7
Cross River	960	928	866	861	99.4	802	750	93.5	93.0	325	304	93.5	93.0	495	492	99.4	98.8
Delta	960	928	871	859	98.6	731	695	95.1	93.8	323	296	91.6	90.4	539	534	99.1	97.7
Ebonyi	960	944	932	932	100.0	781	772	98.8	98.8	295	294	99.7	99.7	540	540	100.0	100.0
Edo	960	959	951	948	99.7	775	762	98.3	98.0	363	363	100.0	99.7	443	443	100.0	99.7
Ekiti	960	944	849	842	99.2	552	497	90.0	89.3	260	211	81.2	80.5	324	311	96.0	95.2
Enugu	960	944	899	888	98.8	744	722	97.0	95.9	285	271	95.1	93.9	417	415	99.5	98.3
Gombe	960	944	903	890	98.6	1,030	975	94.7	93.3	510	497	97.5	96.0	971	949	97.7	96.3
Imo	960	944	921	907	98.5	716	705	98.5	97.0	347	331	95.4	93.9	474	471	99.4	97.9
Jigawa	960	957	936	931	99.5	1,176	1,122	95.4	94.9	510	483	94.7	94.2	1,268	1,228	96.8	96.3
Kaduna	960	938	903	897	99.3	1,247	1,146	91.9	91.3	582	512	88.0	87.4	953	935	98.1	97.5
Kano	1,920	1,920	1,876	1,867	99.5	2,576	2,500	97.0	96.6	1,201	1,099	91.5	91.1	2,574	2,559	99.4	98.9
Katsina	960	958	949	949	100.0	1,192	1,174	98.5	98.5	517	506	97.9	97.9	1,268	1,256	99.1	99.1
Kebbi	960	944	922	920	99.8	1,176	1,136	96.6	96.4	564	522	92.6	92.4	1,133	1,120	98.9	98.6
Kogi	960	944	919	910	99.0	960	912	95.0	94.1	410	393	95.9	94.9	561	553	98.6	97.6
Kwara	960	922	888	872	98.2	747	686	91.8	90.2	384	371	96.6	94.9	545	521	95.6	93.9
Lagos	1,920	1,856	1,754	1,681	95.8	1,584	1,491	94.1	90.2	784	707	90.2	86.4	943	930	98.6	94.5
Nasarawa	960	928	888	878	98.9	1,155	1,094	94.7	93.7	550	498	90.5	89.5	924	907	98.2	97.1
Niger	960	960	912	898	98.5	1,225	1,150	93.9	92.4	560	504	90.0	88.6	1,050	1,027	97.3	95.8
Ogun	960	947	826	802	97.1	678	603	88.9	86.4	306	253	82.7	80.3	424	414	97.6	94.8
Ondo	960	960	940	937	99.7	657	650	98.9	98.6	305	293	96.1	95.8	444	440	99.1	98.8
Osun	960	944	856	839	98.0	630	541	85.9	84.2	301	216	71.8	70.3	347	331	95.4	93.5
Oyo	960	960	895	887	99.1	708	609	86.0	85.2	354	278	78.5	77.8	519	505	97.3	96.4
Plateau	960	928	892	883	99.0	1,172	1,110	94.7	93.8	558	526	94.3	93.3	941	932	99.0	98.0
Rivers	960	916	866	858	99.1	768	745	97.0	96.1	433	429	99.1	98.2	398	395	99.2	98.3
Sokoto	960	957	931	928	99.7	1,142	1,101	96.4	96.1	469	352	75.1	74.8	1,230	1,213	98.6	98.3

Taraba	960	848	766	745	97.3	881	782	88.8	86.3	398	353	88.7	86.3	641	593	92.5	90.0
Yobe	960	720	702	697	99.3	933	899	96.4	95.7	442	416	94.1	93.4	917	897	97.8	97.1

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Zamfara	960	912	907	903	99.6	1,256	1,197	95.3	94.9	513	461	89.9	89.5	1,236	1,208	97.7	97.3
FCT Abuja	960	946	921	914	99.2	1,257	1,183	94.1	93.4	561	490	87.3	86.7	771	745	96.6	95.9



Characteristics of Households

The weighted age and sex distribution of the survey population is provided in Table HH.2. In the households successfully interviewed in the survey, a weighted total of 182,165 household members were listed. Of these, 90,721 were males, and 91,993 were females.

Table HH.2: Age distribution of household population by sex

Percent and frequency distribution of the household population by five-year age groups, dependency age groups, and by child (age 0-17 years) and adult populations (age 18 or more), by sex, Nigeria, 2016-17

	Total		Males		Females	
	Number	Percent	Number	Percent	Number	Percent
Total	182,165	100.0	90,172	100.0	91,993	100.0
	Age (Years)					
0-4	31,299	17.2	15,822	17.5	15,476	16.8
5-9	29,627	16.3	15,051	16.7	14,575	15.8
10-14	24,773	13.6	12,292	13.6	12,481	13.6
15-19	16,075	8.8	8,398	9.3	7,677	8.3
20-24	12,294	6.7	5,752	6.4	6,542	7.1
25-29	11,438	6.3	4,942	5.5	6,496	7.1
30-34	10,734	5.9	4,824	5.3	5,911	6.4
35-39	9,038	5.0	4,308	4.8	4,730	5.1
40-44	7,935	4.4	3,986	4.4	3,949	4.3
45-49	5,970	3.3	3,174	3.5	2,796	3.0
50-54	7,224	4.0	3,016	3.3	4,207	4.6
55-59	4,289	2.4	2,177	2.4	2,111	2.3
60-64	3,883	2.1	2,110	2.3	1,773	1.9
65-69	2,296	1.3	1,316	1.5	980	1.1
70-74	2,193	1.2	1,292	1.4	901	1.0
75-79	1,066	0.6	613	0.7	453	0.5
80-84	961	0.5	538	0.6	423	0.5
85+	680	0.4	352	0.4	327	0.4

Missing	392	0.2	208	0.2	184	0.2
Dependency age groups						
0-14	85,698	47.0	43,166	47.9	42,533	46.2
15-64	88,880	48.8	42,687	47.3	46,193	50.2
65+	7,194	3.9	4,111	4.6	3,083	3.4
Missing	392	0.2	208	0.2	184	0.2
Child and adult populations						
Children age 0-17 years	96,192	52.8	48,746	54.1	47,446	51.6
Adults age 18+ years	85,581	47.0	41,218	45.7	44,363	48.2
Missing	392	0.2	208	0.2	184	0.2

Both unweighted and weighted numbers are presented. Such information is essential for the interpretation of findings presented later in the report and provide background information on the representativeness of the survey sample. The remaining tables in this report are presented only with weighted numbers.³

Table HH.3 provides basic background information on the households, including the sex of the household head, state, geopolitical zone, residence, number of household members, education of household head, and ethnicity⁴ of the household head are shown in the table. These background characteristics are 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.

Table HH.3: Household composition

Percent and frequency distribution of households by selected characteristics, Nigeria, 2016-17

	Weighted percent	Number of households	
		Weighted	Unweighted

³ See Appendix A: Sample Design, for more details on sample weights.

⁴ This was determined by asking describe the questions asked and used for the construction of this background variable; typical questions asked in MICS surveys are mother tongue, ethnic background and/or religion.

Total	100	33,901	33,901
Geopolitical zone			
North Central	16.0	5,435	6,244
North East	16.5	5,581	4,396
North West	26.9	9,128	7,395
South East	9.2	3,132	4,524
South South	12.6	4,281	5,354
South West	18.7	6,344	5,988
Sex of household head			
Male	85.0	28,829	27,982
Female	15.0	5,072	5,919
Residence			
Urban	36.6	12,421	11,104
Rural	63.4	21,480	22,797
Number of household members			
1	10.7	3,634	4,180
2	9.5	3,220	3,583
3	12.5	4,244	4,433
4	13.6	4,620	4,536
5	12.8	4,328	4,326
6	11.3	3,816	3,828
7	8.6	2,932	2,764
8	5.9	2,004	1,876
9	4.2	1,435	1,282
10+	10.8	3,666	3,093
Education of household head			
None	22.0	7,443	7,658
Non-formal	15.5	5,269	4,175
Primary	19.3	6,558	7,252
Secondary / Secondary-technical	26.7	9,047	9,257
Higher	16.3	5,526	5,496
Missing	0.2	58	63
Ethnicity of household head			
Hausa	39.6	13,433	10,948
Igbo	13.1	4,436	5,764

Yoruba	17.3	5,873	5,886
Other ethnic group	30.0	10,159	11,303
Mean household size	5.4	33,901	33,901

Table HH.3: Household composition (continued)

Percent and frequency distribution of households by selected characteristics, Nigeria, 2016-17

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	Weighted percent	Number of households	
		Weighted	Unweighted
Total	100.0	33,901	33,901
State			
Abia	1.4	472	899
Adamawa	2.2	735	823
Akwa Ibom	2.5	844	950
Anambra	2.1	719	898
Bauchi	4.1	1,384	952
Bayelsa	0.9	308	878
Benue	2.9	987	889
Borno	4.4	1,493	289
Cross River	2.3	778	861
Delta	2.2	740	859
Ebonyi	1.6	535	932
Edo	1.9	654	948
Ekiti	1.0	351	842
Enugu	1.8	610	888
Gombe	1.6	529	890
Imo	2.3	796	907
Jigawa	3.4	1,147	931
Kaduna	4.9	1,646	897
Kano	5.6	1,894	1,867
Katsina	5.0	1,705	949
Kebbi	2.5	838	920
Kogi	1.9	649	910
Kwara	1.9	639	872
Lagos	5.8	1,974	1,681
Nasarawa	1.9	630	878
Niger	3.6	1,211	898
Ogun	1.8	608	802
Ondo	3.0	1,025	937
Osun	2.7	916	839
Oyo	4.3	1,470	887
Plateau	3.1	1,051	883
Rivers	2.8	957	858
Sokoto	2.4	820	928

Taraba	1.6	527	745
Yobe	2.7	914	697
Zamfara	3.2	1,078	903
FCT Abuja	0.8	270	914

Table HH.4: Women's background characteristics

Percent and frequency distribution of women age 15-49 years by selected background characteristics, Nigeria, 2016-17

	Number of women	
	Weighted percent	Unweighted
	Weighted	Unweighted

Total			100.0		34,376		34,376
Geopolitical zone							
North Central	17.5	6,006	7,013	North East	19.2	6,584	5,223
North West	31.8	10,932	9,376	South East	7.1	2,445	3,645
South South	10.7	3,668	4,728				
South West					13.8	4,741	4,391
Residence							
Urban					36.0	12,373	10,965
Rural					64.0	22,003	23,411
Age (Years)							
15-19					19.8	6,822	6,805
20-24					16.9	5,816	5,721
25-29					17.2	5,915	5,933
30-34					15.7	5,390	5,296
35-39					12.6	4,339	4,391
40-44	10.4	3,571	3,605	45-49	7.3	2,524	2,625
Marital/Union status							
Currently married/in union					71.0	24,373	23,891
Widowed	1.9	638	648	Divorced	1.0	356	295
Separated					1.1	375	476
Never married/in union					24.8	8,520	8,938
Motherhood and recent births							
Never gave birth					28.3	9,717	10,025
Ever gave birth					71.7		
Gave birth in last two years					33.6	11,547	11,204
No birth in last two years					38.1	13,084	13,121
Education							
None					22.7	7,799	7,255
Non-formal	16.4	5,646	4,800	Primary	14.4	4,963	5,213
Secondary	36.3	12,466	13,452				
Higher					10.2	3,502	3,656
Wealth index quintile							
Poorest	17.8	6,120	5,855	Second	18.8	6,478	6,646
Middle					19.5	6,708	6,812
Fourth					20.5	7,053	7,178
Richest					23.3	8,017	7,885
Ethnicity of household head							
Hausa	46.3	15,920	13,525	Igbo	10.3	3,558	4,781
Yoruba	12.7	4,380	4,303				
Other ethnic group					30.6	10,518	11,767

Table HH.4: Women's background characteristics (continued)

Percent and frequency distribution of women age 15-49 years by selected background characteristics, Nigeria, 2016-17

	Weighted percent		Number of women	
			Weighted	Unweighted
Total		100.0	34,376	34,376
State				
Abia		1.0	336	663
Adamawa	2.4 830 972	Akwa Ibom 2.4 834 1,007		
Anambra		1.8	608	783
Bauchi		4.5	1,559	1,183
Bayelsa		0.8	260	769
Benue		2.8	956	878
Borno		5.8	1,984	412
Cross River		2.0	693	750
Delta		1.7	584	695
Ebonyi		1.2	400	772
Edo		1.4	494	762
Ekiti		0.6	216	497
Enugu		1.4	495	722
Gombe		1.6	562	975
Imo		1.8	606	705
Jigawa		3.8	1,313	1,122
Kaduna		6.0	2,076	1,146
Kano		6.9	2,389	2,500
Katsina		5.7	1,950	1,174
Kebbi		2.8	956	1,136
Kogi		1.8	632	912
Kwara		1.4	487	686
Lagos		5.0	1,725	1,491
Nasarawa		2.1	738	1,094
Niger	4.5 1,536 1,150	Ogun 1.4 474 603		
Ondo		1.9	646	650
Osun		1.9	638	541
Oyo		3.0	1,042	609
Plateau		3.8	1,317	1,110
Rivers		2.3	803	745
Sokoto		2.7	912	1,101
Taraba		1.6	558	782
Yobe		3.2	1,091	899
Zamfara		3.9	1,337	1,197
FCT Abuja		1.0	340	1,183

The table includes information on the distribution of women/men, children under 5 according to state, geopolitical zone, residence, age, marital/union status, motherhood status, births in last two years, education⁵, wealth index quintiles⁶, and ethnicity of the household head.

⁵ Throughout this report, unless otherwise stated, "education" refers to highest educational level ever attended by the

respondent when it is used as a background variable.

6

The wealth index is a composite indicator of wealth. To construct the wealth index, principal components analysis is performed by using information on the ownership of consumer goods, dwelling characteristics, water and sanitation, and other characteristics that are related to the household's wealth. To generate weights (factor scores) for each of the items used, initial factor scores are calculated for the total sample. Then, separate factor scores are calculated for households in urban and rural areas. Finally, the urban and rural factor scores are regressed on the initial factor scores to obtain the combined final factor scores for the total sample. This is carried out to minimize the urban bias in the wealth index values. Each household in the total sample is then assigned a wealth score based on the assets owned by that household and on the final factor scores obtained as described above. The survey household population is then ranked according to the wealth score of the household they are living in, and is finally divided into 5 equal parts (quintiles) from lowest (poorest) to highest (richest).

In Nigeria MICS 2016-17, the following assets were used in these calculations: Type of floor, roof, wall, fuel used by household for cooking, household assets, source and location of drinking water and sanitation facility.

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.

Table HH.4M: Men's background characteristics

Percent and frequency distribution of men age 15-49 years by selected background characteristics, Nigeria, 2016-17

	Number of men		
	Weighted percent	Weighted	Unweighted

Total	100.0	15,183	15,183
Geopolitical zone			
North Central 18.0 2,730 3,184 North East 19.4 2,943 2,452			
North West 30.8 4,674 3,935 South East 6.5 984 1,481 South South 11.0 1,664 2,173			
South West	14.4	2,189	1,958
Residence			
Urban	37.1	5,627	4,890
Rural	62.9	9,556	10,293
Age (Years)			
15-19	23.1	3,508	3,590
20-24	15.7	2,378	2,378
25-29	14.4	2,191	2,149
30-34	13.7	2,078	2,076
35-39	12.8	1,936	1,938
40-44 11.4 1,724 1,729 45-49 9.0 1,368 1,323			
Marital/Union status			
Currently married/in union	47.5	7,213	7,164
Widowed 0.2 35 34 Divorced 0.3 44 39 Separated 0.8 114 141			
Never married/in union	51.1	7,749	7,781
Fatherhood status			
Has at least one living child	46.0	6,977	6,942
Has no living children	53.7	8,154	8,201
Education			
None	10.3	1,563	1,526
Non-formal 14.1 2,140 1,681 Primary 13.2 1,997 2,090 Secondary 45.2 6,861 7,319			
Higher	17.3	2,622	2,567
Wealth index quintile			
Poorest 17.2 2,614 2,481 Second 19.1 2,901 2,963			
Middle	19.3	2,927	3,000
Fourth	21.1	3,202	3,276
Richest	23.3	3,539	3,463
Ethnicity of household head			
Hausa 45.8 6,958 5,910 Igbo 9.8 1,488 1,966 Yoruba 13.0 1,980 1,915			
Other ethnic group	31.3	4,757	5,392

Table HH.4M: Men's background characteristics (continued)

Percent and frequency distribution of men age 15-49 years by selected background characteristics, Nigeria, 2016-17

	Weighted percent	Number of men	
		weighted	unweighted
Total	100.0	15,183	15,183
State			
Abia 0.9 142 271 Adamawa 2.6 389 480 Akwa Ibom 2.4 365 451 Anambra 1.6 241 314 Bauchi 4.5 681 529 Bayelsa 0.8 121 330 Benue 3.2 481 402			
Borno	5.4	813	177
Cross River	1.8	275	304
Delta 1.7 258 296 Ebonyi 1.0 152 294 Edo 1.4 209 363 Ekiti 0.6 96 211 Enugu 1.3 190 271			
Gombe 1.8 268 497 Imo 1.7 260 331 Jigawa 3.5 534 483			
Kaduna 5.9 898 512 Kano 6.8 1,028 1,099 Katsina 5.4 816 506 Kebbi 2.8 426 522 Kogi 1.8 275 393 Kwara 1.5 232 371			
Lagos	5.3	808	707
Nasarawa 2.3 352 498 Niger 4.2 645 504 Ogun 1.4 206 253			
Ondo	1.9	293	293
Osun 2.0 296 216 Oyo 3.2 490 278			
Plateau 4.0 606 526 Rivers 2.9 436 429			
Sokoto	2.4	358	352
Taraba 1.7 256 353 Yobe 3.5 537 416 Zamfara 4.0 613 461			
FCT Abuja	0.9	139	490

Table HH.5: Under-5's background characteristics

Percent and frequency distribution of children under five years of age by selected characteristics, Nigeria, 2016-17

	Number of under-5 children		
	Weighted percent	Weighted	Unweighted

Total				100.0		28,085		28,085						
Geopolitical zone														
North Central	16.4	4,616	5,347	North East	21.5	6,041	4,733	North West	37.9	10,635	9,519	South East	5.5	
South South	8.1	2,273	3,172	South West	10.6				10.6				2,968	2,931
Sex														
Male					50.6				50.6				14,213	14,222
Female					49.4				49.4				13,872	13,863
Residence														
Urban					30.5				30.5				8,553	7,471
Rural					69.5				69.5				19,532	20,614
Age (Months)														
0-5	9.7	2,723	2,748	6-11	9.4	2,640	2,697	12-23	19.7	5,535	5,522			
24-35									19.6				5,514	5,470
36-47	20.7	5,818	5,925	48-59	20.9	5,856	5,723							
Respondent to the under-5 questionnaire														
Mother					95.5				95.5				26,829	26,759
Other primary caretaker					4.5				4.5				1,256	1,326
Mother's education^a														
None	29.0			8,134	7,672									
Non-formal	22.1	6,196	5,507	Primary	15.4	4,330	4,661							
Secondary					25.8				25.8				7,245	8,005
Higher					7.8				7.8				2,178	2,237
Wealth index quintile														
Poorest	22.7	6,369	6,277	Second	21.4	6,018	6,222							
Middle					19.8				19.8				5,549	5,412
Fourth					18.4				18.4				5,156	5,221
Richest					17.8				17.8				4,993	4,953
Ethnicity of household head														
Hausa	55.5	15,592	13,549	Igbo	8.2	2,310	3,189	Yoruba	9.4	2,640	2,769			
Other ethnic group					26.9				26.9				7,543	8,578

^a In this table and throughout the report, mother's education refers to educational attainment of mothers as well as caretakers of children under 5, who are the respondents to the under-5 questionnaire if the mother is deceased or is living elsewhere.

Table HH.5: Under-5's background characteristics (continued)

Percent and frequency distribution of children under five years of age by selected characteristics, Nigeria, 2016-17

	Number of under-5 children		
	Weighted percent	Weighted	Unweighted
Total	100.0	28,085	28,085
State			
Abia	0.8 224 453	Adamawa	2.2 624 741
1,524 1,168	Bayelsa	0.6 177 552	Benue
2.5 697 667	Borno	6.6 1,851 385	Cross River
1.4 383 504	Bauchi	5.4	
1.4 393 492			
Delta	1.5 409 534	Ebonyi	1.0 271 540
Edo	1.0 281 443	Ekiti	0.4 125 311
Enugu			1.0
			268
			415
Gombe	1.9 534 949	Imo	1.4 405 471
Jigawa	5.0 1,399 1,228	Kaduna	5.7 1,607 935
Kano	8.3 2,325 2,559	Katsina	7.4 2,066 1,256
Kebbi	3.3 935 1,120	Kogi	1.3 372 553
Kwara	1.3 358 521		
Lagos	3.8 1,054 930	Nasarawa	2.2 607 907
Niger	4.5 1,270 1,022	Ogun	1.1 295 414
Ondo			1.5
			408
			440
Osun	1.2 342 331	Oyo	2.7 745 505
Plateau	3.9 1,103 932	Rivers	1.5 412 395
Sokoto	3.5 975 1,213	Taraba	1.5 422 593
Yobe			3.9
			1,085
			897
Zamfara			4.7
			1,328
			1,208
FCT Abuja			0.7
			209
			745

^a In this table and throughout the report, mother's education refers to educational attainment of mothers as well as caretakers of children under 5, who are the respondents to the under-5 questionnaire if the mother is deceased or is living elsewhere.

Housing characteristics, asset ownership, and wealth quintiles

Table HH.6: Housing characteristics

Percent distribution of households by selected housing characteristics, according to area of residence and regions, Nigeria, 2016-17

	Residence						Geopolitical zone														
	Central	East	West	East	South	West	North	North	North	South	South	South	Total	Urban	Rural						
Electricity																					
Yes		54.4	86.8	35.7	48.1	38.7	40.6	66.3	68.6	78.1											
No		45.6	13.2	64.3	51.8	61.3	59.3	33.7	31.4	21.9											
Flooring																					
Natural floor	30.0	8.5	42.5	26.0	47.5	51.5	12.1	11.9	8.4	Rudimentary floor	0.8	0.4	1.0	0.2	0.3	1.0	0.1	2.0	0.9	Finished floor	68.6
	90.7	55.8	72.6	51.1	47.2	87.7	86.0	90.3													
Other		0.6	0.4	0.6	1.2	1.0	0.4	0.1	0.2	0.4											
Roof																					
Natural roofing	13.2	1.5	20.0	16.0	27.5	19.6	2.1	2.8	1.7	Rudimentary roofing	3.6	1.7	4.7	3.1	1.8	7.9	1.8	1.7	1.5	Finished roofing	82.6
	96.5	74.6	80.7	70.6	71.1	96.2	95.4	96.3													
Other		0.5	0.3	0.6	0.3	0.2	1.3	0.0	0.1	0.5											
Exterior walls																					
Natural walls	15.4	3.7	22.2	12.4	35.4	24.2	3.1	4.9	1.0	Rudimentary walls	19.9	5.0	28.5	23.8	20.5	33.0	9.0	9.6	9.5	Finished	64.3
	91.1	48.8	63.0	43.3	42.7	87.8	84.8	89.4													
Other		0.4	0.2	0.5	0.7	0.7	0.1	0.1	0.7	0.0											
Rooms used for sleeping																					
1		33.1	42.6	27.6	24.0	22.3	23.4	30.5	42.9	59.2											
2		31.8	29.3	33.2	31.5	35.5	34.2	32.7	31.4	25.1											
3		or more	35.0	28.0	39.1	44.4	42.2	42.4	36.8	25.5											
		15.7																			
Total		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0											
Number of households		33,901	12,421	21,480	5,435	5,581	9,128	3,132	4,281	6,344											
Mean number of persons per room used for sleeping		2.6	2.6	2.5	2.4	2.8	2.9	2.1	2.3	2.5											

Table HH.6: Housing characteristics (continued)

Percent distribution of households by selected housing characteristics, according to area of residence and regions, Nigeria, 2016-17

State	Electricity			Flooring				Roof				Exterior walls				Rooms used for sleeping				Total	Number of households	Mean number of persons per room used for sleeping			
	Yes	No	Missing/DK	Natural floor	Rudimentary floor	Finished floor	Other	Missing/DK	Natural roofing	Rudimentary roofing	Finished roofing	Other	Missing/DK	Natural walls	Rudimentary walls	Finished walls	Other	Missing/DK	1				2	or more	Missing/DK
Abia	80.4	19.5	0.1	8.6	0.0	91.3	0.0	0.1	1.5	0.1	98.4	0.0	0.0	3.8	3.6	92.4	0.0	0.1	29.8	33.1	36.8	0.3	100.0	472	1.95
Adamawa	32.7	67.2	0.1	35.2	0.0	64.8	0.0	0.0	28.5	2.0	69.5	0.1	0.0	34.8	25.0	40.1	0.1	0.0	21.7	33.6	44.7	0.0	100.0	735	2.38
Akwa Ibom	75.0	25.0	0.0	19.1	1.1	79.7	0.0	0.0	6.1	1.7	92.2	0.0	0.0	8.6	10.1	81.3	0.0	0.0	34.8	29.6	35.4	0.2	100.0	844	2.39
Anambra	71.5	28.5	0.0	5.6	0.1	93.9	0.4	0.0	1.8	2.6	95.6	0.0	0.0	3.3	5.4	91.3	0.0	0.0	35.2	28.8	36.0	0.0	100.0	719	2.27
Bauchi	29.0	71.0	0.0	50.9	0.0	49.1	0.0	0.0	31.0	1.6	67.4	0.0	0.0	34.5	31.9	33.6	0.0	0.0	18.7	39.0	42.3	0.0	100.0	1,384	2.69
Bayelsa	46.6	53.4	0.0	13.4	4.5	81.9	0.2	0.0	3.1	2.2	94.5	0.3	0.0	6.9	10.4	78.3	4.4	0.0	51.8	28.6	19.6	0.0	100.0	308	2.46
Benue	34.5	65.5	0.0	39.3	0.2	54.8	5.7	0.1	46.2	0.1	52.2	1.4	0.1	20.8	23.6	51.9	3.6	0.1	24.1	33.5	42.4	0.0	100.0	987	2.26
Borno	63.4	36.6	0.0	26.7	0.0	73.3	0.0	0.0	5.7	0.8	93.5	0.0	0.0	19.4	6.6	72.8	1.2	0.0	25.9	36.5	37.6	0.0	100.0	1,493	3.30
Cross River	38.1	61.9	0.0	18.8	1.5	79.2	0.5	0.0	4.0	3.6	92.3	0.1	0.0	10.4	15.9	73.7	0.0	0.0	43.2	32.0	24.7	0.0	100.0	778	2.30
Delta	71.6	28.4	0.0	8.3	6.5	84.8	0.3	0.0	1.7	0.8	97.4	0.0	0.0	2.1	8.0	89.4	0.5	0.0	45.8	33.9	20.1	0.2	100.0	740	2.41
Ebonyi	31.1	68.7	0.2	42.9	0.6	56.5	0.0	0.0	7.5	2.6	89.9	0.0	0.0	6.0	32.9	61.1	0.0	0.0	26.7	36.9	36.4	0.0	100.0	535	2.09
Edo	85.5	14.5	0.0	7.4	0.0	92.6	0.0	0.0	0.9	1.0	98.2	0.0	0.0	0.3	8.9	90.9	0.0	0.0	43.2	31.8	24.9	0.1	100.0	654	2.05
Ekiti	70.1	29.9	0.0	6.5	0.4	92.7	0.4	0.0	0.0	0.6	99.4	0.0	0.0	0.2	8.9	90.9	0.1	0.0	57.3	27.3	15.3	0.0	100.0	351	2.15
Enugu	70.1	29.9	0.0	8.9	0.1	91.0	0.1	0.0	0.7	0.5	98.9	0.0	0.0	3.0	6.6	89.9	0.6	0.0	28.8	34.7	36.5	0.0	100.0	610	1.99
Gombe	41.2	58.8	0.0	69.3	0.0	29.8	0.9	0.0	33.9	0.4	65.7	0.0	0.0	33.7	38.8	26.9	0.5	0.1	24.0	30.5	45.5	0.0	100.0	529	2.67
Imo	73.8	26.2	0.0	1.7	0.0	98.2	0.1	0.0	0.1	2.4	97.4	0.0	0.0	0.5	1.2	98.3	0.1	0.0	30.4	31.6	37.9	0.0	100.0	796	2.03
Jigawa	25.7	74.3	0.0	75.8	2.7	21.5	0.0	0.0	32.4	13.9	53.6	0.1	0.0	47.6	33.4	19.0	0.0	0.0	17.4	36.6	45.9	0.0	100.0	1,147	2.85
Kaduna	64.7	35.3	0.0	18.9	0.1	80.7	0.3	0.0	8.0	3.2	88.7	0.1	0.0	7.4	35.4	57.2	0.0	0.0	23.2	27.0	49.9	0.0	100.0	1,646	2.56
Kano	46.8	53.2	0.0	47.3	0.4	52.3	0.1	0.0	11.4	6.8	80.8	0.9	0.0	17.7	21.0	61.3	0.0	0.0	19.4	36.4	44.2	0.0	100.0	1,894	2.96
Katsina	30.0	70.0	0.0	56.8	0.3	42.9	0.0	0.0	33.8	10.6	55.6	0.0	0.0	17.7	47.3	35.0	0.0	0.0	21.4	34.3	44.3	0.0	100.0	1,705	2.74
Kebbi	41.4	58.5	0.2	62.5	4.7	32.4	0.3	0.0	29.4	8.2	61.8	0.6	0.0	38.8	32.1	28.8	0.1	0.2	36.5	36.6	26.9	0.0	100.0	838	3.46
Kogi	50.2	49.8	0.0	30.4	0.1	69.2	0.3	0.0	0.8	8.6	90.6	0.1	0.0	8.5	7.5	84.0	0.1	0.0	30.0	29.8	39.0	1.2	100.0	649	2.15
Kwara	71.8	28.1	0.1	13.7	0.5	85.8	0.0	0.0	9.3	2.6	88.1	0.0	0.0	1.1	18.8	79.9	0.1	0.0	39.2	37.3	23.5	0.0	100.0	639	2.31
Lagos	99.1	0.9	0.0	0.4	0.0	98.6	0.9	0.0	0.0	1.3	98.6	0.1	0.0	0.0	0.2	99.8	0.0	0.0	66.2	24.6	9.3	0.0	100.0	1,974	2.89
Nasarawa	31.5	68.5	0.0	36.5	0.0	63.3	0.2	0.0	5.0	1.6	93.5	0.0	0.0	3.5	31.4	65.1	0.0	0.0	24.0	28.3	47.5	0.1	100.0	630	2.48
Niger	55.0	44.9	0.1	22.9	0.2	76.6	0.3	0.0	11.5	1.0	87.6	0.0	0.0	26.1	17.9	55.9	0.1	0.0	17.2	31.6	51.2	0.0	100.0	1,211	2.57
Ogun	75.8	24.2	0.0	7.4	0.4	92.1	0.0	0.0	1.0	1.1	94.3	3.6	0.0	2.7	8.6	88.7	0.0	0.0	54.4	27.0	18.6	0.0	100.0	608	2.48
Ondo	58.3	41.7	0.0	14.6	4.9	80.2	0.3	0.1	1.3	1.8	96.8	0.0	0.0	1.9	18.7	79.3	0.1	0.0	53.6	28.5	18.0	0.0	100.0	1,025	2.07
Osun	74.0	26.0	0.0	8.6	0.4	91.0	0.0	0.0	0.7	0.3	98.9	0.1	0.0	1.4	11.3	87.2	0.1	0.0	56.7	21.4	21.9	0.0	100.0	916	2.12
Oyo	68.9	31.1	0.0	15.5	0.0	84.3	0.2	0.0	5.6	2.7	91.2	0.5	0.0	1.2	15.0	83.9	0.0	0.0	57.8	24.2	18.0	0.0	100.0	1,470	2.43
Plateau	39.8	60.2	0.0	21.6	0.1	78.3	0.0	0.0	16.7	6.9	76.4	0.0	0.0	6.6	40.7	52.7	0.0	0.0	17.5	28.5	54.0	0.0	100.0	1,051	2.36
Rivers	80.9	19.1	0.0	5.1	0.1	94.8	0.0	0.0	1.2	1.3	97.3	0.1	0.0	1.9	5.3	91.5	1.3	0.0	44.6	31.2	24.1	0.1	100.0	957	2.24
Sokoto	37.5	62.5	0.0	70.6	0.1	29.2	0.1	0.0	18.3	8.2	71.5	1.9	0.0	29.1	37.6	33.3	0.0	0.0	33.5	39.6	26.9	0.0	100.0	820	3.30
Taraba	17.7	82.3	0.0	53.1	0.6	46.2	0.0	0.1	44.5	1.6	53.9	0.0	0.0	38.8	17.8	42.4	0.5	0.5	26.7	30.9	42.4	0.0	100.0	527	2.47
Yobe	28.5	71.5	0.0	70.6	1.4	21.9	5.9	0.1	43.2	4.6	51.4	0.9	0.0	62.5	13.3	22.6	1.6	0.0	18.9	35.8	45.3	0.0	100.0	914	2.95

Zamfara	27.7	72.3	0.0	51.3	0.5	46.0	2.2	0.0	9.1	5.8	77.4	7.5	0.2	31.3	24.4	43.4	1.0	0.0	22.3	33.0	44.8	0.0	100.0	1,078	2.95
FCT Abuja	77.9	22.1	0.0	3.3	0.0	96.3	0.3	0.0	0.5	0.7	98.9	0.0	0.0	0.0	18.8	80.5	0.7	0.0	29.7	32.0	38.2	0.0	100.0	270	2.49

Multiple Indicator Cluster Survey 2016-2017

Table HH.7: Household and personal assets

Percentage of households by ownership of selected household and personal assets, and percent distribution by ownership of dwelling, according to area of residence and regions, Nigeria, 2016-17

	Residence			Geopolitical zone					
	Total	Urban	Rural	North Central	North East	North West	South East	South South	South West

Percentage of households that own a																																							
Radio	59.8	66.9	55.7	59.1	54.4	59.0	65.0	57.5	65.3	Television	47.0	74.2	31.2	47.8	29.3	26.4	63.8	66.7	69.9	Non-mobile telephone	2.5	3.2	2.1	2.6	2.2	3.9	1.2	2.1	1.7										
Refrigerator											21.7		40.5				10.9		19.5		10.1		13.1		30.1		35.0		33.2										
Percentage of households that own																																							
Agricultural land											63.2		33.5				80.4		69.9		70.1		78.3		66.0		55.0		34.0										
Farm animals/Livestock											49.1		25.7				62.6		60.4		61.0		67.0		36.7		19.5		29.2										
Percentage of households where at least one																																							
member owns or has a																																							
Watch	56.6	72.3	47.6	50.6	47.3	44.4	68.3	73.0	70.8	Mobile telephone	74.4	89.8	65.5	79.9	69.1	57.8	81.9	84.4	87.9	Bicycle	19.7	13.1	23.6	15.1	27.7	27.7	22.5	17.8	5.1										
Motorcycle or scooter	31.6	21.6	37.3	45.5	23.8	39.1	30.4	26.9	19.4	Animal-drawn cart	6.3	1.6	9.0	1.3	12.2	14.2	1.2	0.7	0.3	Car or truck	11.1	18.5	6.8	12.7	6.2	8.5	13.5	11.6	16.3	Boat with a motor	1.8	1.0	2.2	2.3	1.0	1.3	1.2	4.6	1.1
Bank account											42.5		66.9				28.4		41.6		27.3		22.8		59.9		58.8		65.5										
Ownership of dwelling																																							
Owned by a household member											68.4		44.2				82.3		73.5		78.8		86.8		71.5		54.6		36.0										
Not owned	31.6	55.7	17.6	26.4	21.2	13.2	28.4	45.4	64.0	Rented	24.5	48.2	10.8	18.2	15.8	8.5	25.5	34.4	53.4	Other	7.1	7.6	6.8	8.2	5.5	4.6	3.0	10.9	10.6										
Total											100.0		100.0				100.0		100.0		100.0		100.0		100.0		100.0		100.0										
Number of households											33,901		12,421				21,480		5,435		5,581		9,128		3,132		4,281		6,344										

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Table HH.7: Household and personal assets (continued)

Percentage of households by ownership of selected household and personal assets, and percent distribution by ownership of dwelling, according to area of residence and regions, Nigeria, 2016-17

	Percentage of																		Total	Number of households
	Percentage of households that own a				own		Percentage of households where at least one member owns or has a													
households that	Radio	Television	Non-mobile telephone	Refrigerator	Agricultural land	Farm animals/Livestock	Watch	Mobile telephone	Bicycle	Motorcycle or scooter	Animal-drawn cart	Car or truck	Boat with a motor	Bank account	Owned by a household member	Not owned	Rented	Other	Ownership of dwelling	
Total	59.8	47.0	2.5	21.7	63.2	49.1	56.6	74.4	19.7	31.6	6.3	11.1	1.8	42.5	68.4	31.6	24.5	7.1	100.0	33,901
State																				
Abia	66.7	67.2	1.1	30.7	57.2	31.4	63.6	83.5	31.0	24.0	0.6	13.1	1.1	60.7	65.7	34.2	29.1	5.1	100.0	472
Adamawa	64.4	32.7	8.4	12.5	69.4	59.4	49.2	68.0	34.6	23.1	2.4	8.3	0.9	37.3	82.9	17.1	14.0	3.1	100.0	735
Akwa Ibom	60.8	67.9	0.8	32.3	67.3	32.8	74.2	86.3	26.8	39.6	1.0	11.7	6.0	44.6	70.2	29.8	25.1	4.7	100.0	844
Anambra	71.1	73.8	1.6	42.4	51.2	30.9	80.7	86.9	7.5	29.0	2.5	16.7	2.1	75.0	58.8	41.2	38.0	3.2	100.0	719
Bauchi	62.8	17.2	0.3	8.7	88.9	77.9	34.0	54.6	25.9	41.8	21.4	4.6	2.1	16.4	87.8	12.2	6.6	5.6	100.0	1,384
Bayelsa	44.8	61.3	9.0	30.1	48.9	3.2	60.5	80.3	2.2	9.0	0.5	5.7	6.0	55.1	45.7	54.3	26.1	28.2	100.0	308
Benue	52.2	38.5	1.6	12.2	82.2	62.5	48.7	86.2	12.6	50.3	1.5	7.6	1.4	41.6	80.0	20.0	12.2	7.7	100.0	987
Borno	47.7	49.5	2.0	11.3	40.3	39.4	57.4	91.9	30.7	6.2	2.3	8.7	0.0	37.2	57.0	43.0	34.6	8.4	100.0	1,493
Cross River	53.4	49.1	1.0	20.6	69.9	36.9	60.7	72.9	5.7	29.8	0.4	7.4	1.8	46.5	53.0	47.0	26.2	20.8	100.0	778
Delta	51.8	69.9	1.5	33.8	47.4	12.6	72.9	81.4	21.8	27.7	0.5	10.1	7.6	56.6	44.7	55.3	47.8	7.5	100.0	740
Ebonyi	55.5	34.7	1.1	9.4	77.0	48.3	45.6	54.6	34.9	34.7	1.2	5.5	1.3	38.7	87.6	12.4	10.4	2.0	100.0	535
Edo	60.7	77.7	0.9	47.4	41.0	9.4	81.5	86.4	6.6	15.9	0.7	19.5	2.5	76.3	43.7	56.3	50.4	5.9	100.0	654

Ekiti	63.9	63.4	1.3	24.6	51.3	46.0	64.0	89.2	7.2	26.2	0.1	13.0	0.1	57.2	44.5	55.5	46.0	9.5	100.0	351
Enugu	61.7	63.3	1.3	25.9	68.2	38.1	74.5	87.7	13.7	25.8	0.7	12.1	1.3	55.7	68.5	31.5	29.1	2.4	100.0	610
Gombe	47.2	21.5	1.7	10.6	84.2	76.8	46.8	63.3	21.7	38.5	12.1	5.7	1.2	25.1	90.5	9.5	8.1	1.4	100.0	529
Imo	67.3	72.5	1.1	35.9	75.5	36.1	70.5	90.5	29.6	35.9	0.7	17.3	0.3	63.2	78.1	21.9	19.4	2.5	100.0	796
Jigawa	45.1	12.1	2.1	6.4	87.4	77.5	33.5	52.9	25.1	31.8	30.4	7.5	1.7	14.8	90.6	9.4	3.4	6.0	100.0	1,147

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Table HH.7: Household and personal assets (continued)

Percentage of households by ownership of selected household and personal assets, and percent distribution by ownership of dwelling, according to area of residence and regions, Nigeria, 2016-17

State	Percentage of households that own a				households that own		Percentage of households where at least one member owns or has a								Ownership of dwelling			Total	Number of households	
	Radio	Television	Non-mobile telephone	Refrigerator	Agricultural land	Farm animals/Livestock	Watch	Mobile telephone	Bicycle	Motorcycle or scooter	Animal-drawn cart	Car or truck	Boat with a motor	Bank account	Owned by a household member	Not owned	Rented			Other
Kaduna	76.2	53.6	1.4	27.0	71.1	46.2	58.1	75.6	19.6	47.9	11.1	12.9	0.2	41.6	72.6	27.4	21.6	5.8	100.0	1,646
Kano	64.7	25.6	4.4	12.0	65.3	57.1	47.0	55.6	35.9	39.4	6.9	8.2	1.5	22.9	88.1	11.9	10.6	1.2	100.0	1,894
Katsina	56.0	20.4	2.8	10.5	83.0	75.2	47.6	55.8	34.5	41.0	17.3	7.7	2.3	16.3	89.7	10.1	4.8	5.3	100.0	1,705
Kebbi	44.8	21.5	6.2	12.8	86.4	76.9	41.2	50.9	26.9	37.4	19.0	9.1	1.7	17.7	94.6	5.3	3.3	2.1	100.0	838
Kogi	58.2	54.0	9.0	19.9	58.5	46.3	39.2	83.0	12.7	42.7	1.4	12.2	1.4	46.8	60.4	39.4	25.2	14.1	100.0	649
Kwara	74.4	56.3	0.7	21.4	42.5	41.2	68.7	67.6	3.1	32.6	1.0	11.5	1.3	40.0	66.5	33.5	30.9	2.7	100.0	639
Lagos	64.6	88.2	1.0	53.9	9.1	2.8	84.8	95.4	6.4	3.2	0.2	18.6	0.6	86.1	15.3	84.7	77.5	7.2	100.0	1,974
Nasarawa	56.6	40.7	3.8	13.8	79.7	65.7	39.2	78.2	10.5	60.5	0.1	9.6	2.1	37.4	78.1	21.8	9.7	12.1	100.0	630
Niger	58.3	48.6	2.0	22.7	80.3	77.9	51.3	80.6	23.3	54.8	3.0	11.8	6.5	32.7	81.5	18.4	8.8	9.6	100.0	1,211
Ogun	63.5	68.5	0.9	30.6	31.9	29.0	73.9	87.4	7.3	19.8	0.0	17.2	1.5	51.5	47.4	52.6	40.3	12.3	100.0	608
Ondo	67.4	56.1	1.3	21.4	52.7	36.3	59.2	77.0	4.3	25.3	0.4	13.0	3.0	52.4	44.9	55.1	45.7	9.4	100.0	1,025
Osun	68.5	60.4	0.6	25.5	52.2	51.8	67.8	87.2	3.1	33.8	0.0	13.7	0.9	55.5	44.5	55.5	40.7	14.7	100.0	916
Oyo	63.7	63.1	3.8	21.6	39.9	41.8	62.5	85.6	4.0	26.4	0.8	17.4	0.7	60.9	45.6	54.3	41.2	13.0	100.0	1,470
Plateau	57.0	45.4	0.9	19.2	70.6	63.5	50.7	79.0	22.2	35.4	0.4	18.3	0.2	46.1	73.6	26.4	21.8	4.6	100.0	1,051
Rivers	64.1	71.6	3.2	43.2	49.7	11.2	80.1	94.3	29.2	26.0	0.7	12.5	4.2	72.4	60.2	39.8	30.7	9.0	100.0	957

Sokoto	55.8	20.5	10.2	8.3	77.8	71.4	24.1	44.9	12.3	26.7	6.9	6.6	1.0	17.2	91.9	8.1	3.2	4.9	100.0	820
Taraba	47.8	26.7	1.6	7.6	80.1	60.1	38.3	64.0	5.8	38.3	2.4	7.8	2.0	29.1	88.0	12.0	8.7	3.3	100.0	527
Yobe	52.4	17.7	1.0	9.2	76.7	63.2	55.1	61.1	36.3	8.9	27.8	2.5	0.3	19.7	85.3	14.7	8.8	5.9	100.0	914
Zamfara	55.9	19.0	4.2	9.2	88.9	80.9	43.1	57.8	29.8	40.3	11.5	6.2	0.3	20.6	87.6	12.4	4.6	7.8	100.0	1,078
FCT Abuja	67.9	69.3	1.4	41.7	45.7	29.0	65.4	82.1	5.3	27.7	0.7	23.8	0.7	66.1	50.8	49.1	41.2	7.9	100.0	270

Table HH.8: Wealth quintiles

Percent distribution of the household population by wealth index quintile, according to area of residence and regions, Nigeria, 2016-17

	Wealth index quintile					Total	Number of household members
	Poorest	Second	Middle	Fourth	Richest		
Total	20.0	20.0	20.0	20.0	20.0	100.0	182,165
Geopolitical zone							
North Central	15.6	22.6	25.5	20.0	16.3	100.0	30,688
North East	27.9	23.8	23.5	18.7	6.2	100.0	36,964
North West	33.6	27.1	16.8	11.6	10.9	100.0	61,155
South East	2.0	9.5	22.1	35.3	31.1	100.0	12,708
South South	0.7	7.9	22.7	32.9	35.8	100.0	17,393
South West	1.6	6.8	12.3	26.2	53.0	100.0	23,257
Residence							
Urban	3.0	5.0	16.1	29.2	46.8	100.0	61,430
Rural	28.7	27.6	22.0	15.3	6.4	100.0	120,735

Table HH.8: Wealth quintiles (continued)

Percent distribution of the household population by wealth index quintile, according to area of residence and regions, Nigeria, 2016-17

	Wealth index quintile						Number of household members
	Poorest	Second	Middle	Fourth	Richest	Total	
Total	20.0	20.0	20.0	20.0	20.0	100.0	182,165
State							
Abia	0.0	4.6	21.0	41.1	33.3	100.0	1,826
Adamawa	22.2	23.9	26.9	18.0	9.0	100.0	4,379
Akwa Ibom	1.4	7.4	28.5	38.2	24.4	100.0	3,893
Anambra	1.7	5.0	12.3	33.0	48.0	100.0	2,965
Bauchi	43.1	30.7	14.2	7.0	5.0	100.0	8,746
Bayelsa	0.7	9.5	23.0	37.1	29.8	100.0	1,279
Benue	19.3	29.7	23.6	17.7	9.8	100.0	5,012
Borno	6.2	14.5	35.0	37.7	6.6	100.0	11,063
Cross River	1.4	18.2	35.9	27.1	17.4	100.0	3,233
Delta	0.1	5.2	19.7	36.3	38.8	100.0	2,921
Ebonyi	7.8	33.1	33.4	19.5	6.1	100.0	2,248
Edo	0.0	3.8	9.5	29.5	57.2	100.0	2,339
Ekiti	0.3	6.0	26.4	37.1	30.3	100.0	1,128
Enugu	0.5	6.8	27.0	36.9	28.8	100.0	2,399
Gombe	42.4	27.0	14.0	10.3	6.4	100.0	3,291
Imo	0.4	2.1	20.2	43.7	33.6	100.0	3,270
Jigawa	50.3	29.8	8.7	6.6	4.6	100.0	8,019
Kaduna	11.9	19.4	27.5	20.6	20.6	100.0	10,418
Kano	20.4	30.3	21.7	15.2	12.4	100.0	13,560
Katsina	43.0	27.6	11.7	8.3	9.5	100.0	10,941
Kebbi	43.7	24.1	16.0	8.3	7.8	100.0	5,391
Kogi	2.4	17.6	36.2	31.7	12.0	100.0	3,152
Kwara	7.5	13.6	19.9	29.4	29.6	100.0	2,709
Lagos	0.0	0.1	1.2	13.4	85.4	100.0	7,576
Nasarawa	8.4	31.3	32.5	17.5	10.3	100.0	3,792
Niger	20.1	21.0	26.5	18.4	13.9	100.0	7,954
Ogun	0.8	6.3	14.3	26.8	51.8	100.0	2,317
Ondo	2.0	13.7	21.4	28.3	34.5	100.0	3,471
Osun	0.4	8.0	20.1	39.8	31.8	100.0	3,257
Oyo	4.9	11.4	13.8	32.1	37.9	100.0	5,508
Plateau	24.5	22.4	19.6	14.9	18.6	100.0	6,581
Rivers	0.2	3.7	15.7	30.4	50.0	100.0	3,729
Sokoto	46.0	28.5	11.2	8.4	5.9	100.0	5,164
Taraba	27.3	31.4	21.9	14.1	5.2	100.0	2,974
Yobe	41.3	24.9	19.4	8.8	5.6	100.0	6,511
Zamfara	40.2	29.3	14.0	7.5	8.9	100.0	7,663
FCT Abuja	1.1	13.1	22.0	23.6	40.3	100.0	1,489

IV. Child Mortality

Mortality rates presented in this chapter are calculated from information collected in the birth histories of the Women’s Questionnaires. All interviewed women were asked whether they had ever given birth, and if yes, 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 live births of children in chronological order starting with the firstborn. Women were asked whether births were single or multiple, the sex of the children, the date of birth (month and year), and survival status. Further, for children still alive, they were asked the current age of the child and, if not alive, the age at death. Childhood mortality rates are expressed by conventional age categories and are defined as follows:

- Neonatal mortality (NN): probability of dying within the first month of life
- Post-neonatal mortality (PNN): difference between infant and neonatal mortality rates
- Infant mortality (${}_1q_0$): probability of dying between birth and the first birthday
- Child mortality (${}_4q_1$): probability of dying between the first and the fifth birthdays
- Under-five mortality (${}_5q_0$): the probability of dying between birth and the fifth birthday

Rates 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, and post-neonatal mortality, which is the difference between infant and neonatal mortality rates.

Table CM.1: Early childhood mortality rates

Neonatal, post-neonatal, Infant, child and under-five mortality rates for five year periods preceding the survey, Nigeria, 2016-17					
Years preceding the survey	Neonatal mortality rate ¹	Post-neonatal mortality rate ^{2, a}	Infant mortality rate ³	Child mortality rate ⁴	Under-five mortality rate ⁵
0-4	39	31	70	54	120
5-9	37	34	71	52	119
10-14	38	38	76	68	139
¹ MICS indicator 1.1 - Neonatal mortality rate ² MICS indicator 1.3 - Post-neonatal mortality rate ³ MICS indicator 1.2; MDG indicator 4.2 - Infant mortality rate ⁴ MICS indicator 1.4 - Child mortality rate ⁵ MICS indicator 1.5; MDG indicator 4.1 - Under-five mortality rate ^a Post-neonatal mortality rates are computed as the difference between the infant and neonatal mortality rates					

Table CM.2: Early childhood mortality rates by socio-economic characteristics

Neonatal, post-neonatal, Infant, child and under-five mortality rates for the five year period preceding the survey, by socioeconomic characteristics, Nigeria, 2016-17					
	Neonatal mortality rate ¹	Post-neonatal mortality rate ^{2, a}	Infant mortality rate ³	Child mortality rate ⁴	Under-five mortality rate ⁵

Total	39	31	70	54	120
Geopolitical zone					
North Central	43	29	72	33	103
North East	33	29	62	56	115
North West	45	41	87	83	162
South East	26	20	46	22	67
South South	22	17	39	21	59
South West	36	16	52	16	67
Residence					
Urban	35	18	53	27	78
Rural	40	37	77	66	138
Mother's education					
None	43	38	82	69	145
Non Formal	41	43	85	86	164
Primary	39	28	67	46	110
Secondary	33	19	52	22	73
Higher	34	12	46	9	55
Wealth index quintile					
Poorest	39	41	80	85	158
Second	42	42	84	78	156
Middle	44	31	75	54	125
Fourth	36	21	57	24	80
Richest	30	15	45	11	56
Ethnicity of household head					
Hausa	42	38	80	75	149
Igbo	28	17	45	19	63
Yoruba	37	17	54	15	68
Other ethnic group	36	26	62	33	92
¹ MICS indicator 1.1 - Neonatal mortality rate ² MICS indicator 1.3 - Post-neonatal mortality rate ³ MICS indicator 1.2; MDG indicator 4.2 - Infant mortality rate ⁴ MICS indicator 1.4 - Child mortality rate ⁵ MICS indicator 1.5; MDG indicator 4.1 - Under-five mortality rate ^a Post-neonatal mortality rates are computed as the difference between the infant and neonatal mortality rates					

Table CM.2: Early childhood mortality rates by socioeconomic characteristics (Continued)

Neonatal, post-neonatal, Infant, child and under-five mortality rates for the five year period preceding the survey, by socioeconomic characteristics, Nigeria, 2016-17

	Neonatal	Post-neonatal	Infant	Child
mortality	mortality	Under-five rate ¹	rate ^{2, a}	rate ³
mortality	mortality	rate ⁴	mortality	rate ⁵

Total	39	31	70	54	120
State					
Abia	(32)	23	55	30	83
Adamawa	21	28	49	37	84
Akwa Ibom	21	21	42	32	73
Anambra	(23)	16	39	15	53
Bauchi	41	40	81	87	161
Bayelsa	29	27	57	41	95
Benue	41	28	70	14	82
Borno	(26)	15	42	42	82
Cross River	20	18	38	15	52
Delta	28	19	48	16	63
Ebonyi	30	18	47	15	62
Edo	(†)	(†)	(†)	(†)	(†)
Ekiti	(46)	24	69	18	86
Enugu	(†)	(†)	(†)	(†)	(†)
Gombe	35	56	90	78	162
Imo	(35)	30	66	33	96
Jigawa	37	46	83	120	192
Kaduna	28	38	66	18	82
Kano	69	44	112	103	203
Katsina	35	32	68	72	135
Kebbi	55	56	111	70	174
Kogi	29	20	49	28	75
Kwara	27	12	40	6	45
Lagos	29	16	45	6	50
Nasarawa	47	34	81	43	121
Niger	59	41	100	54	149
Ogun	(28)	20	49	19	66
Ondo	(30)	6	37	32	67
Osun	(56)	21	78	25	101
Oyo	(42)	17	59	15	73
Plateau	34	20	55	27	80
Rivers	(27)	14	41	18	58
Sokoto	28	23	51	72	119
Taraba	22	41	64	45	105
Yobe	44	20	64	41	102
Zamfara	53	51	104	118	210
FCT-Abuja	27	17	44	28	71

¹ MICS indicator 1.1 - Neonatal mortality rate ² MICS indicator 1.3 - Post-neonatal mortality rate ³ MICS indicator 1.2; MDG indicator 4.2 - Infant mortality rate ⁴ MICS indicator 1.4 - Child mortality rate ⁵ MICS indicator 1.5; MDG indicator 4.1 - Under-five mortality rate

^a

Post-neonatal mortality rates are computed as the difference between the infant and neonatal mortality rates

() Total number of live births (exposure) are based on 250-499 unweighted cases (†) The result did not pass reliability test

Table CM.3: Early childhood mortality rates by demographic characteristics

Neonatal, post-neonatal, infant, child and under-five mortality rates for the five year period preceding the survey, by demographic characteristics, Nigeria, 2016-17						
	Neonatal mortality rate ¹	Post-neonatal mortality rate ^{2, a}	Infant mortality rate ³	Child mortality rate ⁴	Under-five mortality rate ⁵	
Total	39	31	70	54	120	
Sex of child						
Male	44	33	77	53	126	
Female	33	30	63	55	114	
Mother's age at birth (years)						
Less than 20	57	39	96	68	158	
20-34	34	29	63	49	109	
35-49	43	34	77	63	135	
Birth order						
1	48	32	80	45	122	
2-3	29	25	54	43	94	
4-6	32	29	61	58	115	
7+	62	45	108	82	181	
Previous birth interval^b						
< 2 years	63	46	110	78	179	
2 years	29	29	58	53	108	
3 years	26	22	48	44	90	
4+ years	23	21	44	35	78	
¹ MICS indicator 1.1 - Neonatal mortality rate ² MICS indicator 1.3 - Post-neonatal mortality rate ³ MICS indicator 1.2; MDG indicator 4.2 - Infant mortality rate ⁴ MICS indicator 1.4 - Child mortality rate ⁵ MICS indicator 1.5; MDG indicator 4.1 - Under-five mortality rate ^a Post-neonatal mortality rates are computed as the difference between the infant and neonatal mortality rates ^b Excludes first order births						

V. Nutrition

Low Birth Weight

Table NU.1: Low birth weight infants

Percentage of last live-born children in the last two years that are estimated to have weighed below 2,500 grams at birth and percentage of live births weighed at birth, Nigeria, 2016-17								
Percent distribution of births by mother's assessment of size at birth:					Percentage of live assessment of size at birth			
Very small	Smaller than average	Average	Larger than average or very large	Don't know	Total	Below 2,500 grams ¹	Weighed at birth ²	Number of last live-born children in the last two years

Total	3.1	9.1	53.6	32.9	1.2	100.0	14.8	25.2	11,547
Geopolitical zone									
North Central	3.2	8.4	58.9	25.1	4.3	100.0	16.6	26.0	1,770
North East	2.1	12.4	58.5	26.5	0.5	100.0	15.7	13.0	2,394
North West	4.1	9.1	50.0	36.3	0.5	100.0	14.6	11.4	4,603
South East	2.2	7.3	63.4	25.1	2.1	100.0	14.7	61.4	620
South South	1.8	5.4	57.9	34.4	0.5	100.0	12.6	47.7	900
South West	2.5	7.6	42.5	46.4	1.1	100.0	13.1	64.2	1,261
Mother's age at birth (years)						100.0			
Less than 20	3.6	9.7	54.4	31.3	1.0	100.0	15.3	12.9	1,516
20-34	2.9	9.0	53.9	33.0	1.2	100.0	14.7	27.2	7,969
35-49	3.5	9.2	51.9	33.9	1.6	100.0	15.0	26.8	2,062
Birth order									
1	3.2	8.5	55.0	32.0	1.3	100.0	14.7	33.5	1,884
2-3	2.8	8.2	52.9	34.9	1.2	100.0	14.2	30.4	3,771
4-5	2.5	10.5	54.5	31.3	1.3	100.0	15.3	25.2	2,920
6+	4.0	9.5	52.8	32.5	1.2	100.0	15.2	13.5	2,972
Residence									
Urban	2.5	8.6	49.3	38.7	0.9	100.0	13.8	48.7	3,426
Rural	3.3	9.4	55.5	30.4	1.4	100.0	15.3	15.3	8,121
Mother's education									
None	3.7	9.2	57.2	28.3	1.6	100.0	15.6	9.4	3,208
Non formal	3.3	11.9	51.6	32.4	0.7	100.0	14.7	20.9	1,716
Primary	2.9	8.8	54.3	32.7	1.4	100.0	14.2	44.9	3,182
Secondary	2.6	8.2	52.4	35.4	1.4	100.0	12.0	81.5	882
Higher	2.2	5.1	49.3	42.8	0.6	100.0	15.8	4.2	2,560
Wealth index quintile									

Poorest	4.0	8.2	56.3	30.0	1.6	100.0	15.2	4.0	2,587
Second	3.1	10.3	56.4	28.7	1.6	100.0	15.7	8.9	2,548
Middle	3.5	10.3	53.2	31.8	1.1	100.0	15.5	19.5	2,270
Fourth	2.3	9.7	53.5	33.7	0.9	100.0	14.5	35.9	2,113
Richest	2.4	7.0	47.4	42.3	0.9	100.0	13.0	68.3	2,028
Ethnicity of household head									
Hausa	3.5	10.5	53.7	31.7	0.6	100.0	15.3	11.1	6,543
Igbo	2.0	6.3	58.7	31.3	1.6	100.0	13.6	64.4	923
Yoruba	2.9	7.6	42.7	45.8	1.0	100.0	13.2	63.1	1,096
Other ethnic group	2.6	7.7	55.9	31.3	2.5	100.0	14.8	30.2	2,985

¹ MICS indicator 2.20 - Low-birthweight infants ² MICS indicator 2.21 - Infants weighed at birth

Table NU.1: Low birth weight infants (continued)

Percentage of last live-born children in the last two years that are estimated to have weighed below 2,500 grams at birth and percentage of live births weighed at birth, Nigeria, 2016-17

	Percent distribution of births by mother's live births:					Percentage of assessment of size at birth			Number of last live-born children in the last two years
	Very small	Smaller than average	Average	Larger than average or very large	Don't know	Total	Below 2,500 grams ¹	Weighed at birth ²	
Total	3.1	9.1	53.6	32.9	1.2	100.0	14.8	25.2	11,547
State									
Abia	3.4	5.4	58.5	30.1	2.6	100.0	14.1	46.7	99
Adamawa	3.8	5.3	57.7	32.0	1.2	100.0	13.7	29.3	264
Akwa Ibom	0.2	3.3	66.4	30.0	0.0	100.0	11.4	30.5	228
Anambra	2.1	12.0	68.0	15.2	2.7	100.0	17.3	90.0	618
Bauchi	0.7	5.6	72.3	21.0	0.3	100.0	13.2	8.1	271
Bayelsa	3.7	7.6	59.9	28.8	0.0	100.0	14.3	23.5	618
Benue	0.4	6.2	56.0	34.7	2.7	100.0	13.6	29.8	271
Borno	1.8	28.3	50.4	19.5	0.0	100.0	21.8	13.9	271
Cross River	1.9	5.8	62.8	29.5	0.0	100.0	12.7	46.7	162
Delta	0.5	5.8	50.0	42.1	1.6	100.0	12.3	52.7	162
Ebonyi	2.1	6.5	69.9	18.2	3.2	100.0	15.4	39.7	111
Edo	5.3	7.7	59.0	27.4	0.6	100.0	15.3	72.6	111
Ekiti	0.6	3.1	50.2	40.9	5.2	100.0	12.1	58.8	54
Enugu	0.0	5.7	63.7	27.8	2.7	100.0	13.5	61.1	54
Gombe	2.0	4.4	55.4	35.5	2.7	100.0	12.4	18.9	236
Imo	3.0	6.1	57.7	33.3	0.0	100.0	13.0	60.8	236
Jigawa	2.6	6.5	61.3	29.1	0.4	100.0	13.8	9.9	595
Kaduna	4.0	9.2	52.9	33.8	0.0	100.0	14.6	33.0	595
Kano	3.5	12.9	42.0	41.2	0.4	100.0	15.4	7.8	1,038
Katsina	2.0	10.1	36.9	49.8	1.1	100.0	13.6	10.1	1,038
Kebbi	16.2	2.8	55.0	25.7	0.4	100.0	17.0	6.0	398
Kogi	3.8	7.4	59.3	26.0	3.5	100.0	15.2	50.0	398
Kwara	5.1	4.9	56.6	33.3	0.0	100.0	13.4	43.1	115
Lagos	1.7	4.8	45.9	46.3	1.2	100.0	11.9	82.6	429
Nasarawa	2.6	7.9	48.1	39.4	2.0	100.0	14.1	29.2	429
Niger	4.9	5.1	74.9	14.3	0.9	100.0	14.9	14.5	527
Ogun	1.3	7.9	39.4	50.1	1.4	100.0	12.5	54.5	527
Ondo	4.3	16.7	35.3	43.7	0.0	100.0	16.9	57.5	163
Osun	6.2	9.5	45.0	39.3	0.0	100.0	15.1	48.6	163
Oyo	1.5	6.2	40.2	50.8	1.3	100.0	12.0	55.6	322
Plateau	2.8	16.5	49.0	18.0	13.8	100.0	24.5	18.9	322
Rivers	2.5	5.2	47.7	44.1	0.4	100.0	12.2	62.7	163
Sokoto	4.1	10.5	55.9	28.7	0.8	100.0	15.8	5.3	163
Taraba	2.3	3.0	57.3	36.6	0.8	100.0	11.8	11.5	173
Yobe	3.4	9.0	54.2	33.4	0.0	100.0	14.2	5.4	173
Zamfara	1.5	6.9	62.0	29.2	0.3	100.0	13.4	5.1	583
FCT Abuja	2.4	7.3	49.0	40.6	0.8	100.0	13.2	47.1	583

¹ MICS indicator 2.20 - Low-birthweight infants
² MICS indicator 2.21 - Infants weighed at birth

Nutritional Status

The reference population used in this report is based on the WHO growth standards⁶. Each of the three nutritional status indicators – weight-for-age, height-for-age, and weight-for-height - 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 weight-for-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.

Weight-for-height can be used to assess wasting and overweight status. 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 classified as *severely wasted*. Wasting is usually the result of a recent nutritional deficiency. The indicator of wasting may exhibit significant seasonal shifts associated with changes in the availability of food or disease prevalence.

Children whose weight-for-height is more than two standard deviations above the median reference population are classified as moderately or severely overweight.

⁶ http://www.who.int/childgrowth/standards/technical_report

Table NU.2: Nutritional status of children

Percentage of children under age 5 by nutritional status according to three anthropometric indices: weight for age, height for age, and weight for height, Nigeria, 2016-17

	Weight for age			Height for age				for height					
	Underweight			Stunted				Wasted Number of children under age 5	Percent below		verweight Percent above + 2 SD ⁷	Mean Z-Score (SD)	Number of children under age 5
	Percent below - 2 SD ¹	- 3 SD ²	Mean Z-Score (SD)	Number of under - 2 - 3 age 5	Percent below SD ³	children SD ⁴	Mean Z-Score (SD)		- 2	- 3			
Total	31.5	11.5	-1.4	27,400	43.6	22.8	-1.7	27,292	10.8	2.9	1.5	-0.6	27,637
Geopolitical zone													
North Central	19.6	5.5	-1.1			14.3	-1.5			1.5	2.1	-0.4	4,541
				4,539	34.9			4,526	7.1				
North East	40.0	14.5	-1.7	5,731	52.4	29.0	-2.1	5,695	13.0	3.5	1.3	-0.7	5,926
North West	42.6	17.6	-1.8			33.8	-2.3				1.5	-0.6	10,487
				10,445	58.5			10,399	12.9	3.7			
South East	13.7	3.7	-0.7	1,523	16.9	5.1	-0.7	1,520	8.2	2.0	2.1	-0.4	1,525
South South	13.8	3.3	-0.8			7.0	-0.8				1.3	-0.5	2,243
				2,249	19.0			2,243	6.8	2.0			
South West	16.6	3.8	-0.9			5.9	-0.9				0.8	-0.6	2,915
				2,913	19.4			2,909	8.9	2.2			
Sex													
Male	33.1	12.4	-1.5	13,843	45.7	24.6	-1.8	13,779	11.9	3.3	1.7	-0.6	13,969
Female	29.9	10.7	-1.4			21.0	-1.7				1.3	-0.6	13,667
				13,557	41.4			13,513	9.6	2.5			

Residence													
Urban	23.0	7.2	-1.1	8,392	30.6	13.6	-1.3	8,364	10.5	2.6	1.1	-0.6	8,372
Rural	35.3	13.5	-1.5			26.9	-1.9				1.7	-0.6	19,265
				19,008	49.3			18,928	10.9	3.1			
Age (months) 0-													
5	22.6	8.8	-1.0	2,676	21.8	9.3	-0.8	2,674	14.8	5.5	3.7	-0.5	2,662
6-11	32.6	11.7	-1.4			11.6	-1.2				1.3	-1.0	2,619
				2,610	28.3			2,600	19.0	5.0			
12-17	37.1	14.2	-1.6	3,101	40.5	19.3	-1.6	3,090	19.2	4.7	0.6	-1.0	3,129
18-23	39.5	18.4	-1.7	2,338	54.0	29.8	-2.2	2,323	16.2	4.4	0.9	-0.9	2,359
24-35	36.7	15.2	-1.6			32.8	-2.2				1.3	-0.5	5,425
				5,367	55.2			5,342	9.7	2.5			
36-47	28.4	9.6	-1.4	5,691	49.4	26.5	-2.0	5,666	4.8	1.3	1.8	-0.3	5,732
48-59	26.9	6.9	-1.4	5,616	41.4	20.1	-1.7	5,597	5.4	1.1	1.3	-0.4	5,710
Mother's education*													
None		15.4	-1.7	7,889	55.1	31.2	-2.2	7,853	11.0	3.0	1.4	-0.6	8,046
	39.7												
Non-formal	44.7	17.7	-1.9	6,011	60.9	34.3	-2.3	5,973	14.0	4.1	1.3	-0.7	6,098
Primary	27.0	8.9	-1.3			18.7	-1.6				1.5	-0.5	4,256
				4,228	38.8			4,215	9.4	2.3			
Secondary	19.7	6.2	-1.0	7,129	27.6	11.4	-1.2	7,114	9.2	2.6	1.7	-0.5	7,102
Higher	12.3	3.2	-0.7	2,141	15.5	5.6	-0.6	2,135	8.8	1.6	1.8	-0.5	2,133
Wealth index quintile													
Poorest		18.8	-1.9			36.0	-2.4				1.5	-0.7	6,288
				6,140	62.8			6,103	13.2	4.2			
	46.6												
Second	38.1	15.5	-1.7	5,854	54.5	31.1	-2.2	5,818	11.1	3.1	1.9	-0.5	5,957

Middle	28.5	10.3	-1.4		21.9	-1.7		1.4	-0.5	5,461		
				5,434	43.5		5,414	9.6	2.1			
Fourth	24.0	6.6	-1.2	5,062	32.2	13.7	-1.4	5,058	10.3	2.3	5,046	
Richest	15.8	4.3	-0.8			6.9	-0.8		1.4	-0.6	4,886	
				4,910	18.3			4,900	9.2	2.5		
Ethnicity of household head												
Hausa		16.4	-1.8			31.8	-2.2			1.4	-0.7	15,363
				15,165	56.6			15,094	13.0	3.6		
	41.8											
Igbo	12.9	3.4	-0.6	2,275	15.5	5.6	-0.6	2,268	8.4	2.2	2,256	
Yoruba	18.0	4.3	-1.0			6.9	-1.0		0.9	-0.6	2,598	
				2,597	21.1			2,593	9.0	2.2		
Other ethnic group	20.8	6.5	-1.1	7,363	33.5	15.1	-1.4	7,337	7.5	1.9	7,420	

Table NU.2: Nutritional status of children (continued)

Percentage of children under age 5 by nutritional status according to three anthropometric indices: weight for age, height for age, and weight for height, Nigeria, 2016-17

	Weight for age			Number of Stunted children under age 5	Height for age			Number of children under age 5	Weight or height				
	Underweight		Mean Z-Score (SD)		Percent below		Mean Z-Score (SD)		Wast	Percent below - 3 SD ⁶	Overweight	Mean Z-Score (SD)	Number of children under age 5
	Percent below - 2 SD ¹	- 3 SD ²		- 2 SD ³	- 3 SD ⁴	Percent below - 2 SD ⁵		Percent above + 2 SD ⁷					
Total	31.5	11.5	-1.4	27,400	43.6	22.8	-1.7	27,292	10.8	2.9	1.5	-0.6	27,637
State		5.4	-1.0			4.9	-0.9		11.0		1.1	-0.7	220
Abia	20.2			218	20.5			219	3.0				
Adamawa	23.7	6.9	-1.3	614	37.9	19.8	-1.6	612	9.5	3.4	1.8	-0.5	617
Akwa Ibom	22.7	6.5	-1.1	592	29.4	12.3	-1.1	593	11.5	3.9	0.7	-0.7	593
Anambra	12.3	3.0	-0.4	377	14.3	4.6	-0.4	375	8.0	1.8	3.7	-0.3	379
Bauchi	48.5	15.3	-1.9	1,502	64.9	35.7	-2.4	1,499	7.6	1.0	1.0	-0.6	1,519
Bayelsa	10.0	2.3	-0.7	174	15.3	5.5	-0.8	173	3.2	1.0	1.6	-0.3	174
Benue	15.1	4.9	-0.9	678	28.8	10.0	-1.2	675	6.7	1.6	3.2	-0.2	682
Borno	36.4	12.2	-1.6	1,817	45.0	23.4	-1.8	1,818	17.0	4.4	0.5	-0.8	1,800
Cross River	13.9	2.8	-0.8	386	20.1	7.0	-0.9	386	5.5	1.3	1.4	-0.4	386

Delta	11.2	2.2	-0.7	406	16.3	4.6	-0.7	405	4.8	0.9	0.6	-0.4	403
Ebonyi	17.6	6.7	-1.0	267	25.3	9.9	-1.0	267	10.6	3.7	3.3	-0.5	265
Edo	10.2	2.1	-0.6	280	13.6	5.4	-0.6	278	6.6	2.1	1.4	-0.4	279
Ekiti	11.6	3.1	-0.9	122	21.9	7.3	-1.1	123	6.8	2.2	0.5	-0.3	123
Enugu	5.7	0.5	-0.4	262	8.5	0.9	-0.4	262	3.6	0.4	1.3	-0.2	262
Gombe	41.2	17.6	-1.7	528	54.4	32.5	-2.2	527	13.4	3.9	1.5	-0.7	529
Imo	14.3	3.7	-0.7	398	17.2	5.1	-0.8	398	8.1	1.5	1.1	-0.4	399
Jigawa	50.4	22.2	-2.0	1,366	66.0	40.7	-2.6	1,359	13.8	3.8	1.2	-0.7	1,379
Kaduna	34.0	12.8	-1.4	1,585	47.0	27.9	-1.8	1,588	11.7	4.1	2.4	-0.5	1,572
Kano	40.3	16.1	-1.8	2,280	58.0	32.8	-2.3	2,259	10.8	2.8	1.7	-0.6	2,279
Katsina	46.4	18.5	-1.9	2,051	60.9	35.8	-2.4	2,035	14.9	4.1	1.4	-0.7	2,056
Kebbi	44.9	18.4	-1.8	916	60.3	33.0	-2.3	914	13.7	3.7	0.9	-0.7	918
Kogi	15.4	4.8	-0.9	367	28.6	9.6	-1.1	367	8.5	2.9	1.8	-0.3	367

Table NU.2: Nutritional status of children (continued)

Percentage of children under age 5 by nutritional status according to three anthropometric indices: weight for age, height for age, and weight for height, Nigeria, 2016-17

Weight for age				Height for age			Number of children under age 5	Wasted Percent below - 2 SD ⁵ - 3 ⁶	Weight or height Overweight Percent above + 2 SD ⁷	Mean Z-Score (SD)	Number of children under age 5
Underweight		Mean Z-Score (SD)	Number of children under age 5	Stunted		Mean Z-Score (SD)					
Percent below - 2 SD ¹	- 3 SD ²			Percent below - 2 SD ³	- 3 SD ⁴						
							9.4				

State													
Kwara	22.3	7.1	-1.1	351	31.5	15.4	-1.4	351	2.6	2.6	-0.5	351	
Lagos	14.5	3.2	-0.8	1,039	11.4	2.4	-0.6	1,039	11.4	2.7	0.7	-0.7	1,038
Nasarawa	20.7	5.6	-1.1	592	37.2	14.1	-1.5	595	6.8	1.2	1.7	-0.4	592
Niger	24.3	6.9	-1.3	1,246	37.3	16.1	-1.6	1,237	8.8	1.7	0.8	-0.5	1,248
Ogun	22.4	5.5	-1.2	290	26.1	10.1	-1.2	290	9.0	1.4	0.0	-0.7	291
Ondo	16.0	2.8	-0.9	403	22.4	8.8	-1.1	403	5.9	1.8	0.8	-0.4	405
Osun	18.7	6.6	-1.2	335	23.5	6.8	-1.3	335	8.0	2.2	0.7	-0.6	338
Oyo	17.4	3.4	-1.0	724	24.4	7.0	-1.1	719	7.6	1.9	1.4	-0.5	721
Plateau	18.5	4.5	-1.2	1,100	40.0	17.8	-1.7	1,097	4.7	0.8	3.1	-0.2	1,098
Rivers	7.6	1.3	-0.5	411	10.9	3.3	-0.4	408	5.0	1.3	2.6	-0.3	408
Sokoto	48.6	22.9	-2.0	958	60.9	33.8	-2.3	953	17.2	5.6	1.1	-0.9	968
Taraba	24.2	9.3	-1.2	403	41.4	22.9	-1.8	399	8.4	3.4	5.5	-0.2	416
Yobe	51.0	24.1	-2.1	866	61.0	36.9	-2.5	839	17.5	5.3	1.0	-0.9	1,044
Zamfara	36.6	15.3	-1.7	1,290	58.5	32.6	-2.3	1,290	10.4	2.8	1.3	-0.5	1,315
FCT Abuja	12.6	2.6	-0.8	205	22.8	6.3	-1.0	204	5.1	1.3	1.3	-0.4	204

¹ MICS indicator 2.1a and MDG indicator 1.8 - Underweight prevalence (moderate and severe)
² MICS indicator 2.1b - Underweight prevalence (severe) ³ MICS indicator 2.2a -
Stunting prevalence (moderate and severe) ⁴ MICS indicator 2.2b - Stunting
prevalence (severe) ⁵ MICS indicator 2.3a - Wasting prevalence (moderate and
severe) ⁶ MICS indicator 2.3b - Wasting prevalence (severe) ⁷ MICS indicator 2.4
- Overweight prevalence

Breastfeeding and infant and Young Child Feeding

UNICEF and WHO recommend that infants be breastfed within one hour of birth, breastfed exclusively for the first six months of life and continue to be breastfed up to 2 years of age and beyond.⁷ Starting at 6 months, breastfeeding should be combined with safe, age-appropriate feeding of solid, semi-solid and soft foods.⁸ A summary of key guiding principles^{9,10} for feeding 6-23 month olds is provided in the table below along with proximate measures for these guidelines collected in this survey.

The guiding principles for which proximate measures and indicators exist are:

- (i) continued breastfeeding;
- (ii) appropriate frequency of meals (but not energy density); and (iii) appropriate nutrient content of food.

Feeding frequency is used as proxy for energy intake, requiring children to receive a minimum number of meals/snacks (and milk feeds for non-breastfed children) for their age. Dietary diversity is used to ascertain the adequacy of the nutrient content of the food (not including iron) consumed. For dietary diversity, seven food groups were created for which a child consuming at least four of these is considered to have a better quality diet. In most populations, consumption of at least four food groups means that the child has a high likelihood of consuming at least one animal-source food and at least one fruit or vegetable, in addition to a staple food (grain, root or tuber).^{11,12}

These three dimensions of child feeding are combined into an assessment of the children who received appropriate feeding, using the indicator of “minimum acceptable diet”. To have a minimum acceptable diet in the previous day, a child must have received:

- (i) the appropriate number of meals/snacks/milk feeds;
- (ii) food items from at least 4 food groups; and
- (iii) breastmilk or at least 2 milk feeds (for non-breastfed children).

Guiding Principle (age 6-23 months)	Proximate measures	Table
Continue frequent, on-demand breastfeeding for two years and beyond	Breastfed in the last 24 hours	NU.4
Appropriate frequency and energy density of meals	Breastfed children Depending on age, two or three meals/snacks provided in the last 24 hours	NU.6
	Non-breastfed children Four meals/snacks <u>and/or milk feeds</u> provided in the last 24 hours	
Appropriate nutrient content of food	Four food groups ¹³ eaten in the last 24 hours	NU.6
Appropriate amount of food	No standard indicator exists	na
Appropriate consistency of food	No standard indicator exists	na

⁷ WHO. 2003. *Implementing the Global Strategy for Infant and Young Child Feeding. Meeting Report Geneva, 3-5 February, 2003.*

⁸ WHO. 2003. *Global Strategy for Infant and Young Child Feeding.*

⁹ PAHO. 2003. *Guiding principles for complementary feeding of the breastfed child.*

¹⁰ WHO. 2005. *Guiding principles for feeding non-breastfed children 6-24 months of age.*

¹¹ WHO. 2008. *Indicators for assessing infant and young child feeding practices. Part 1: Definitions.*

¹² Food groups used for assessment of this indicator are 1) Grains, roots and tubers, 2) legumes and nuts, 3) dairy products (milk, yogurt, cheese), 4) flesh foods (meat, fish, poultry and liver/organ meats), 5) eggs, 6) vitamin-A rich fruits and vegetables, and 7) other fruits and vegetables.

Use of vitamin-mineral supplements or fortified products for infant and mother	No standard indicator exists	na
Practice good hygiene and proper food handling	While it was not possible to develop indicators to fully capture programme guidance, one standard indicator does cover part of the principle: Not feeding with a bottle with a nipple	NU.9
Practice responsive feeding, applying the principles of psycho-social care	No standard indicator exists	na

Table NU.3: Initial breastfeeding

Percentage of last live-born children in the last two years who were ever breastfed, breastfed within one hour of birth, and within one day of birth, and percentage who received a prelacteal feed, Nigeria, 2016-17

	Percentage ever breastfed ¹		Percentage who were first breastfed: Percentage				Number of last live-born children in the last two years
	Within one hour of birth ²	Within one day of birth	who received a prelacteal feed	Within one hour of birth	Within one day of birth	who received a prelacteal feed	
Total	95.0	32.8	78.7	52.1			11,547
Geopolitical zone							
North Central	96.9 37.0 82.5 44.5	1,770	North East 94.9 32.1 75.5 64.8				2,394
North West	93.0 31.8 78.1 59.1	4,603	South East 96.4 34.5 81.3 43.5				620 South South
	97.9 41.8 84.9 36.5	900					
South West	96.9	24.9	75.6	28.4			1,261
Residence							
Urban	96.4	33.9	82.2	45.9			3,426
Rural	94.4	32.4	77.2	54.7			8,121
Months since last birth							
0-11	96.4	33.9	82.2	45.9			3,426
12-23	94.4	32.4	77.2	54.7			8,121
Assistance at delivery							
Skilled attendant	96.3 35.1 82.1 43.7	4,970	Traditional birth attendant 95.7 39.8 78.6 58.8				1,803
Other	92.8	26.9	75.0	57.3			3,397
No one/Missing	94.6	30.1	75.2	60.6			1,377
Place of delivery							
Home	93.9	31.6	76.6	59.5			6,952
Health facility	96.8 35.2 82.5 41.4	4,333	Public 96.9 38.0 84.9 42.6				2,823
	Private	96.6	29.8	78.1	39.2		1,511
Other/DK/Missing	93.1	27.0	70.9	32.4			262
Mother's education							
None	93.9 31.0 73.3 61.2	3,208	Non-formal 93.1 32.2 77.3 60.0				2,560 Primary 95.4 36.3
	82.4 50.7	1,716	Secondary 97.0 32.9 82.6 41.6				3,182
Higher	96.4	34.3	80.7	36.8			882
Wealth index quintile							
Poorest	92.7 28.1 70.9 60.2	2,587	Second 93.8 31.3 75.5 57.7				2,548
Middle	95.5	36.0	81.9	52.8			2,270
Fourth	96.9	36.1	85.8	46.0			2,113
Richest	96.8	33.8	81.4	40.2			2,028
Ethnicity of household head							
Hausa	93.6	31.7	77.0	60.3			6,543
Igbo	97.1 33.9 81.6 40.9	923	Yoruba 96.7 28.5 76.9 27.9				1,096
Other ethnic group	96.8	36.7	82.0	46.4			2,985

¹ MICS indicator 2.5 - Children ever breastfed ² MICS indicator 2.6 - Early initiation of breastfeeding

Table NU.3: Initial breastfeeding (continued)

Percentage of last live-born children in the last two years who were ever breastfed, breastfed within one hour of birth, and within one day of birth, and percentage who received a prelacteal feed, Nigeria, 2016-17

	Percentage		Percentage who were first breastfed:				Percentage who who were ever		Within one						
	hour of breastfed ¹	Within one day birth ²	received a of birth	Number of last live-born children in prelacteal feed		the last two years									
Total	95.0	32.8	78.7	52.1					11,547						
State															
Abia	96.1	31.1	77.5	31.0	99	Adamawa	94.3	29.8	78.5	47.9	264	Akwa Ibom	98.2	35.6	
	83.5	25.1			228	Anambra	96.5	35.6	84.5	48.6	140	Bauchi	93.8	30.0	
	618	Bayelsa	96.8	34.5	82.3	71.3	73	Benue	97.7	54.3	92.6	33.4	271		
	Borno	97.5	36.8	86.2	72.7	692	Cross River	98.3	44.1	87.9	26.5	162	Delta	96.2	49.8
	51.2	173	Ebonyi	94.0	52.9	88.9	22.6	111	Edo	98.2	44.6	87.0	36.4	101	
	Ekiti	94.1	27.6	80.2	19.2	54	Enugu	98.5	39.7	83.6	49.4	105			
	Gombe	90.2	26.8	72.6	38.4			236	Imo	96.6	20.0	74.3	56.8		
			164	Jigawa	94.2	12.8	75.9	71.7			595				
	Kaduna	98.5	28.9	93.5	51.2			663	Kano	90.2	30.8	75.4	51.3		
	1,038	Katsina	93.5	38.3	75.1	67.8		916	Kebbi	92.2	50.4	75.8	71.7		
				398	Kogi	90.9	31.7	76.3	25.4			133	Kwara	99.5	
						66.6	93.2	15.2			115				
	Lagos	97.3	25.0	72.8	27.4	429	Nasarawa	95.2	20.6	80.7	49.1	244	Niger	97.7	38.6
	64.1			527	Ogun	96.9	15.1	68.5	57.0		132				
	Ondo			99.1		36.3		81.3		29.8				163	
	Osun	94.3	23.3	79.7	16.5			161	Oyo	97.2	23.3	76.7	24.8		
	322	Plateau	97.2	28.0	83.5	40.0		392	Rivers	99.1	41.3	84.8	31.5		
								163							
	Sokoto			90.1		45.9		80.2		54.4				409	
	Taraba	91.0	15.9	78.2	47.6	173	Yobe	97.2	38.7	68.4	73.2	410	Zamfara	92.2	23.4
	50.2			583											
	FCT Abuja					97.4	29.1	85.8	36.1			89			

¹ MICS indicator 2.5 - Children ever breastfed ² MICS indicator 2.6 - Early initiation of breastfeeding

Table NU.4: Breastfeeding

Percentage of living children according to breastfeeding status at selected age groups, Nigeria, 2016-17

	Children age 0-5 months			Children age 12-15 months	Children age 20-23 months		
	Percent exclusively breastfed ¹	Percent predominantly breastfed ²	Number of children		Percent breastfed (Continued breastfeeding at 2 years) ⁴	Number of children	
Total	23.7	54.0	2,723	85.9	2,100	37.1	1,434
Geopolitical zone							
North Central	24.9	45.8	441	82.9	270	33.6	231
North East	21.3	50.4	619	90.0	429	52.3	333
North West	18.5	56.6	1,028	92.7	925	49.0	474
South East	25.3	47.8	157	56.3	108	10.9	91
South South	27.2	52.5	207	67.7	158	9.8	134
South West	43.9	70.5	271	80.8	209	14.5	170
Sex							
Male	23.5	53.0	1,355	86.5	1,004	39.7	736
Female	24.0	55.0	1,369	85.4	1,096	34.3	698
Residence							
Urban	31.7	59.5	754	81.8	653	23.7	450
Rural	20.7	51.9	1,969	87.8	1,447	43.2	984
Mother's education							
None		47.2	761	89.4	586	54.0	397
Non-formal	19.6	58.6	608	92.6	509	59.1	250
Primary	20.8	50.5	402	85.1	311	38.6	215
Secondary	30.6	56.2	761	80.1	538	15.7	457
Higher	41.0	65.2	190	73.5	155	13.0	115
Wealth index quintile							
Poorest		49.7	588	90.6	485	56.7	283
Second	16.4	51.8	639	90.7	467	53.7	307

Middle	23.7	54.9	551	86.2	405	39.4	260
Fourth	27.1	54.4	537	81.0	385	18.5	312
Richest	35.8	61.8	408	78.5	357	17.0	273
Ethnicity of household head							
Hausa	18.7	52.6	1,573	92.0	1,254	49.7	765
Igbo	31.9	51.1	247	57.8	146	14.5	142
Yoruba	42.8	70.4	205	81.0	199	12.6	146
Other ethnic group	26.6	53.4	698	80.9	502	29.5	381
¹ MICS indicator 2.7 - Exclusive breastfeeding under 6 months ² MICS indicator 2.8 - Predominant breastfeeding under 6 months ³ MICS indicator 2.9 - Continued breastfeeding at 1 year ⁴ MICS indicator 2.10 - Continued breastfeeding at 2 years							

Note: Data by state are not shown because samples are too small to give meaningful results

Table NU.5: Duration of breastfeeding

Median duration of any breastfeeding, exclusive breastfeeding, and predominant breastfeeding among children age 0-35 months, Nigeria, 2016-17

	Median duration (in months) of:			Number of children age 0-35 months
	Any breastfeeding ¹	Exclusive breastfeeding	Predominant breastfeeding	

Median			19.9		0.6		3.1		16,411
Geopolitical zone									
North Central	19.0	0.5	1.9	2,631	North East	21.4	0.5	2.6	3,482
North West	21.3	0.5	3.4	6,275	South East	14.1	0.6	2.4	919
South South						15.5		0.6	2.8
South West						16.8		2.0	4.8
Male						19.9		0.5	3.0
Female						19.9		0.6	3.1
Sex									
Residence									
Urban						18.0		0.7	3.7
Rural						20.7		0.5	2.8
Mother's education									
None	21.5	0.5	2.1	4,697	Non-formal	21.6	0.5	3.8	3,581
					Primary	19.9	0.5	2.6	2,454
					Secondary	17.4	0.7	3.3	
Higher						15.7		0.7	4.4
Wealth index quintile									
Poorest	21.8	0.5	2.4	3,665	Second	21.3	0.5	2.8	3,533
Middle						20.4		0.5	3.0
Fourth						17.5		0.6	3.1
Richest						16.6		0.7	4.1
Ethnicity of household head									
Hausa	21.2	0.5	2.9	9,126	Igbo	14.1	1.0	2.6	1,381
Other ethnic group					Yoruba	17.1	1.7	4.8	1,542
						18.8		0.6	2.9
Mean						19.4		1.6	4.0
									16,411
¹ MICS indicator 2.11 - Duration of breastfeeding									

Table NU.5: Duration of breastfeeding (continued)

Median duration (in months) of:		Number of
Any breastfeeding	Exclusive breastfeeding	Predominant children age 0breastfeeding ¹ breastfeeding 35 months

Median	19.9	0.6	3.1	16,411
State				
Abia	15.4	0.7	2.0	138
Adamawa	20.8	1.5	2.4	371
Akwa Ibom	15.1	0.7	3.0	356
Anambra	13.3	0.4	0.4	216
Bauchi	23.3	0.5	0.6	900
Bayelsa	15.4	0.5	2.9	98
Benue	19.6	0.6	0.7	378
Borno	18.9	0.6	4.0	1,034
Cross River	18.1		2.3	230
Delta	15.0	1.1	2.9	243
Ebonyi	15.6	2.1	3.7	166
Edo	15.9	1.0	1.7	165
Ekiti	15.7	2.4	4.1	72
Enugu	15.5	1.1	1.9	160
Gombe	21.5	0.6	3.9	321
Imo	13.1	0.5	3.2	240
Jigawa	20.9	0.5	4.3	840
Kaduna	21.5	0.5	0.7	920
Kano	21.1	0.5	4.4	1,396
Katsina	20.8	0.4	0.7	1,247
Kebbi	21.2	0.4	3.1	536
Kogi	17.0	0.5	3.9	199
Kwara	19.8	1.1	2.5	192
Lagos	15.8	2.7	5.9	642
Nasarawa	18.9	0.5	0.7	347
Niger	20.3	0.4	0.6	772
Ogun	16.6	0.6	5.4	171
Ondo	16.1	0.8	1.9	244
Osun	19.3	2.9	4.4	214
Oyo	17.6	2.5	5.2	425
Plateau	18.3	0.6	4.1	613
Rivers	13.1	0.5	4.3	244
Sokoto	21.8	0.7	4.9	547
Taraba	20.6	0.7	2.9	249
Yobe	22.7	0.4	1.2	608
Zamfara	21.8	0.7	6.5	789
FCT Abuja	16.4	2.9	4.7	129
Mean	19.4	1.6	4.0	16,411
¹ MICS indicator 2.11 - Duration of breastfeeding				

Table NU.6: Age-appropriate breastfeeding

Percentage of children age 0-23 months who were appropriately breastfed during the previous day, Nigeria, 2016-17

	<u>Children age 0-5 months</u>		<u>Children age 6-23 months</u>		<u>Children age 0-23 months</u>	
	Percent exclusively of solid, semi-solid breastfed ² children	Number	Percent currently breastfeeding and receiving Number of appropriately breastfed ¹ children	Number of breastfed ¹ children	Percent children or soft foods children	Number of children
Total	23.7	2,723	69.7	8,174	58.2	10,898
Geopolitical zone						
North Central	24.9	441	66.9	1,217	55.7	1,658
North East	21.3	619	75.6	1,677	60.9	2,297
North West	18.5	1,028	77.6	3,268	63.4	4,296
South East	25.3	157	48.5	458	42.6	615
South South	27.2	207	53.8	658	47.4	865
South West	43.9	271	56.2	896	53.4	1,167
Sex						
Male	23.5	1,355	69.4	4,086	58.0	5,440
Female	24.0	1,369	70.0	4,089	58.5	5,457
Residence						
Urban	31.7	754	63.3	2,487	56.0	3,241
Rural	20.7	1,969	72.5	5,687	59.2	7,656
Mother's education						
None	19.6	761	76.4	2,322	62.4	3,084
Non-formal	16.9	608	78.4	1,789	62.8	2,397
Primary	20.8	402	70.8	1,192	58.2	1,595
Secondary	30.6	761	59.7	2,234	52.3	2,994
Higher	41.0	190	53.7	637	50.8	827
Wealth index quintile						
Poorest	16.4	588	78.3	1,851	63.4	2,439
Second	20.0	639	74.3	1,753	59.8	2,392

Middle	23.7	551	73.4	1,565	60.4	2,115
Fourth	27.1	537	61.0	1,492	52.0	2,030
Richest	35.8	408	58.6	1,514	53.8	1,922
Ethnicity of household head						
Hausa	18.7	1,573	76.7	4,600	61.9	6,172
Igbo	31.9	247	48.4	674	43.9	921
Yoruba	42.8	205	59.0	793	55.7	998
Other ethnic group	26.6	698	65.3	2,108	55.7	2,807
¹ MICS indicator 2.7 - Exclusive breastfeeding under 6 months ² MICS indicator 2.12 - Age-appropriate breastfeeding						

Table NU.6: Age-appropriate breastfeeding (continued)

Percentage of children age 0-23 months who were appropriately breastfed during the previous day, Nigeria, 2016-17

<u>Children age 0-5 months</u>		Children age 6-23 months		Children age 0-23 months	
Percent exclusively	Number of soft foods children	Percent currently breastfeeding and receiving solid, semi- breastfed ²	Number of appropriately breastfed ² children	Percent breastfed ¹	Number of solid or children

Total	23.7	2,723	69.7	8,174	58.2	10,898
State						
Abia	(18.6)	24	53.9	68	44.6	92
Adamawa	34.2	69	78.9	187	66.9	255
Akwa Ibom	28.3	63	53.1	165	46.2	228
Anambra	(24.6)	31	51.0	106	45.1	136
Bauchi	13.6	176	88.0	419	66.0	595
Bayelsa	(29.4)	13	51.8	52	47.2	65
Benue	40.9	60	65.9	185	59.8	245
Borno	(29.5)	175	64.8	485	55.4	660
Cross River	(7.8)	34	64.6	107	50.9	141
Delta	(25.2)	40	46.7	129	41.6	170
Ebonyi	43.9	35	46.8	74	45.9	109
Edo	(27.1)	27	63.6	79	54.4	106
Ekiti	(*)	9	49.3	38	48.7	47
Enugu	(19.0)	24	49.9	81	42.8	105
Gombe	24.5	62	73.8	168	60.5	230
Imo	17.7	43	43.8	129	37.3	172
Jigawa	15.5	139	72.9	439	59.1	578
Kaduna	19.7	124	84.5	484	71.3	608
Kano	18.6	246	78.1	709	62.8	956
Katsina	6.7	203	79.2	673	62.3	876
Kebbi	9.5	92	79.2	273	61.6	365
Kogi	(32.0)	31	50.3	103	46.1	135
Kwara	(35.7)	28	68.1	82	59.9	110
Lagos	51.8	87	50.4	320	50.7	407
Nasarawa	21.3	59	68.4	166	56.0	225

Niger	6.2	125	74.0	365	56.7	490
Ogun	(20.9)	28	50.5	92	43.5	120
Ondo	23.5	41	54.6	115	46.5	155
Osun	55.3	31	67.4	117	64.8	148
Oyo	49.5	75	63.5	214	59.8	289
Plateau	29.4	116	65.9	252	54.4	368
Rivers	(49.1)	29	47.4	126	47.7	156
Sokoto	45.0	91	75.1	291	67.9	381
Taraba	32.0	41	68.3	122	59.2	162
Yobe	4.9	98	77.5	296	59.5	394
Zamfara	26.2	132	71.4	400	60.2	532
FCT Abuja	52.0	21	54.3	64	53.7	85

¹ MICS indicator 2.7 - Exclusive breastfeeding under 6 months
² MICS indicator 2.12 - Age-appropriate breastfeeding

() Sample data are based on 25-49 unweighted cases (*)
Sample data are fewer than 25 unweighted cases

Table NU.7: Introduction of solid, semi-solid, or soft foods

Percentage of infants age 6-8 months who received solid, semi-solid, or soft foods during the previous day, Kano Nigeria, 2016-2017

	Currently breastfeeding		Currently not breastfeeding		All	
	Percent receiving solid, soft children age 6-8	Number of children receiving solid, soft age 6-8	Percent receiving solid, semi-solid or soft foods 6-8 months	Number of children semi-solid or soft foods 6-8 months	Percent receiving solid, semi-solid or soft foods ¹	Number of children semi-solid or soft foods ¹
Total	79.1	1426	(77.2)	34	79.0	1460
Geopolitical Zones						
North Central	83.7	230	(*)	7	83.4	237
North East	78.4	269	(*)	6	78.2	275
North West	79.5	570	(*)	17	79.3	587
South East	86.4	73	(*)	3	86.9	76
South South	82.8	114	(*)	1	83.0	115
South West	67.2	171		0	67.2	171
Sex						
Male	78.2	720	(*)	19	78.1	739
Female	80.0	706	(*)	15	80.0	721
Residence						
Urban	79.5	411	(*)	5	79.7	416
Rural	78.9	1015	(73.4)	29	78.8	1044

¹ MICS indicator 2.13 - Introduction of solid, semi-solid or soft foods

() Sample data are based on 25-49 unweighted cases

(*) Sample data are fewer than 25 unweighted cases

Table NU.8: Infant and young child feeding (IYCF) practices

Percentage of children age 6-23 months who received appropriate liquids and solid, semi-solid, or soft foods the minimum number of times or more during the previous day, by breastfeeding status, Nigeria, 2016-17

	Currently breastfeeding				Currently not breastfeeding				All				
	Percent of children who received:			Number of children age 6-23 months	Percent of children who received:				Number of children age 6-23 months	received:			Number of children age 6-23 months
	Minimum dietary diversity ^a	Minimum meal frequency ^b	Minimum acceptable diet ^c		Minimum dietary diversity ^a	Minimum meal frequency ^b	Minimum acceptable diet ^c	At least 2 milk feeds ³		Minimum dietary diversity ^a	Minimum meal frequency ^b	Minimum acceptable diet ^c	
Total	35.6	42.9	16.5	6,217	56.1	40.4	11.0	24.9	1,716	40.2	42.4	15.3	8,174
Geopolitical zone													
North Central	35.5	46.9	18.2	880	58.9	45.4	12.0	21.0	298	41.5	46.5	16.6	1,217
North East	28.3	47.9	16.1	1,379	49.1	41.9	14.2	20.0	248	31.7	47.0	15.8	1,677
North West	36.4	40.7	15.5	2,760	44.0	35.7	6.8	24.9	411	37.5	40.1	14.4	3,268
South East	39.3	52.6	19.8	238	67.4	42.7	13.4	30.1	201	52.3	48.1	16.9	458
South South	48.1	46.2	24.3	383	65.2	38.6	11.0	20.1	260	55.2	43.1	18.9	658
South West	39.5	29.7	13.4	577	59.9	40.4	11.6	33.7	298	46.8	33.4	12.8	896
Sex													
Male	35.3	42.2	15.2	3,109	56.4	40.8	11.1	26.1	868	39.9	41.9	14.3	4,086
Female	35.9	43.6	17.8	3,108	55.7	40.0	10.9	23.8	848	40.5	42.9	16.3	4,089

Residence													
Urban	40.9	36.3	15.5	1,715	62.9	43.8	14.9	34.0	689	47.5	38.5	15.3	2,487
Rural	33.6	45.5	16.9	4,502	51.5	38.0	8.3	18.8	1,027	37.0	44.1	15.3	5,687
Mother's education													
None	32.3	44.4	15.7	1,929	46.9	34.5	9.5	18.7	319	34.5	43.0	14.8	2,322
Non-formal	29.0	39.5	12.6	1,543	41.7	27.6	4.6	17.0	194	30.2	38.2	11.7	1,789
Primary	36.5	46.7	18.3	913	55.4	36.8	7.9	19.7	242	40.5	44.6	16.2	1,192
Secondary	42.9	43.9	20.7	1,454	58.8	40.9	10.3	22.5	715	48.6	42.9	17.2	2,234
Higher	49.4	36.6	16.6	377	71.9	60.0	23.2	51.4	247	58.9	45.8	19.2	637

Table NU.8: Infant and young child feeding (IYCF) practices

Percentage of children age 6-23 months who received appropriate liquids and solid, semi-solid, or soft foods the minimum number of times or more during the previous day, by breastfeeding status, Nigeria, 2016-17

Currently breastfeeding				Currently not breastfeeding				All					
Percent of children who received:			Number of children age 6-23 months	Percent of children who received:			Number of children age 6-23 months	received:			Number of children age 6-23 months		
Minimum dietary diversity ^a	Minimum meal frequency ^b	Minimum acceptable diet ^c		Minimum dietary diversity ^a	Minimum meal frequency ^b	Minimum acceptable diet ^c		At least 2 milk feeds ³	Minimum dietary diversity ^a	Minimum meal frequency ^b		Minimum acceptable diet ^c	

Wealth index quintile													
Poorest	27.8	43.0	14.0	1,582	40.2	34.8	6.2	17.1	207	29.2	42.1	13.1	1,851
Second	29.8	47.0	16.5	1,449	46.1	41.7	7.6	13.8	260	32.6	46.2	15.2	1,753
Middle	36.4	46.3	16.9	1,231	49.6	29.6	7.3	16.5	274	39.1	43.3	15.2	1,565
Fourth	40.7	37.6	16.7	986	63.0	38.2	10.5	24.3	463	47.8	37.8	14.7	1,492
Richest	50.8	37.9	19.9	969	64.7	49.6	17.1	38.8	513	56.0	41.9	18.9	1,514
Ethnicity of household head													
Hausa	33.6	42.5	15.3	3,822	47.8	36.1	9.7	24.8	629	35.8	41.6	14.5	4,600
Igbo	41.4	44.5	18.1	358	66.2	43.2	13.7	34.1	296	52.6	44.0	16.1	674
Yoruba	46.4	29.0	16.0	524	65.6	38.9	12.2	30.7	248	52.9	32.1	14.8	793
Other ethnic group	35.5	48.5	19.5	1,513	55.7	44.4	10.5	17.5	544	41.1	47.4	17.1	2,108

¹ MICS indicator 2.17a - Minimum acceptable diet (breastfed) ²
MICS indicator 2.17b - Minimum acceptable diet (non-breastfed) ³
MICS indicator 2.14 - Milk feeding frequency for non-breastfed children
⁴
MICS indicator 2.16 - Minimum dietary diversity
⁵
MICS indicator 2.15 - Minimum meal frequency

^a Minimum dietary diversity is defined as receiving foods from at least 4 of 7 food groups: 1) Grains, roots and tubers, 2) legumes and nuts, 3) dairy products (milk, yogurt, cheese), 4) flesh foods (meat, fish, poultry and liver/organ meats), 5) eggs, 6) vitamin-A rich fruits and vegetables, and 7) other fruits and vegetables.

^b Minimum meal frequency among currently breastfeeding children is defined as children who also received solid, semi-solid, or soft foods 2 times or more daily for children age 6-8 months and 3 times or more daily for children age 9-23 months. For non-breastfeeding children age 6-23 months it is defined as receiving solid, semi-solid or soft foods, or milk feeds, at least 4 times.

^c The minimum acceptable diet for breastfed children age 6-23 months is defined as receiving the minimum dietary diversity and the minimum meal frequency, while it for non-breastfed children further requires at least 2 milk feedings and that the minimum dietary diversity is achieved without counting milk feeds.

Table NU.8: Infant and young child feeding (IYCF) practices (continued)

Percentage of children age 6-23 months who received appropriate liquids and solid, semi-solid, or soft foods the minimum number of times or more during the previous day, by breastfeeding status, Nigeria, 2016-17

Currently breastfeeding				Currently not breastfeeding				All			
Percent of children who received:				Percent of children who received:				Percent of children who received:			
Minimum milk diversity ^a	Minimum children age dietary meal frequency ^b	Minimum children age dietary meal diet ^{1, c}	Number of children age 6-23 months	Minimum children age dietary meal diversity ^a	Minimum children age dietary meal frequency ^b	Minimum children age dietary meal diet ^{2, c}	Number of children age 6-23 months	Minimum children age dietary meal diversity ^{4, a}	Minimum children age dietary meal frequency ^{5, b}	Minimum children age dietary meal diet ^c	Number of children age 6-23 months

Total	35.6	42.9	16.5	6,217	56.1	40.4	11.0	24.9	1,716	40.2	42.4	15.3	8,174
State													
Abia	46.0	40.9	16.0	38	81.6	40.8	15.9	35.3	28	60.9	40.9	16.0	68
Adamawa	39.1	56.4	22.7	154	(65.0)	(56.8)	(25.0)	(37.0)	28	43.8	56.4	23.0	187
Akwa Ibom	46.9	43.5	18.2	94	66.9	26.1	12.1	25.6	66	55.0	36.4	15.7	165
Anambra	29.0	77.3	22.3	56	56.6	51.2	13.2	31.4	42	41.0	66.2	18.4	106
Bauchi	22.4	53.6	15.7	387	(35.2)	(50.6)	(.0)	(6.9)	31	23.5	53.4	14.5	419
Bayelsa	37.5	53.5	20.7	28	59.1	41.4	1.9	7.9	22	48.1	48.2	12.4	52
Benue	25.0	61.2	17.0	139	(57.0)	(33.2)	(4.4)	(8.9)	41	32.5	54.9	14.2	185
Borno	28.3	49.8	15.3	335	(*)	(*)	(*)	(*)	120	34.7	45.3	15.7	485
Cross River	51.0	65.3	40.6	71	(60.3)	(47.3)	(5.6)	(10.3)	35	53.4	59.4	29.1	107
Delta	48.0	40.8	24.1	68	66.1	46.6	12.3	17.0	57	57.2	43.4	18.8	129
Ebonyi	24.9	45.7	21.0	44	59.4	48.6	19.7	26.6	27	37.8	46.8	20.5	74
Edo	46.8	9.6	2.3	54	(71.4)	(8.8)	(5.8)	(9.5)	24	55.2	9.4	3.4	79
Ekiti	40.7	25.2	18.0	23	(70.4)	(32.8)	(9.4)	(20.9)	14	52.0	28.1	14.7	38
Enugu	48.2	38.6	16.2	42	61.0	29.3	4.8	24.8	39	54.4	34.1	10.7	81
Gombe	25.9	66.2	23.3	137	(35.5)	(60.5)	(13.3)	(23.2)	28	27.4	65.2	21.6	168
Imo	49.5	51.7	21.7	58	75.3	43.5	15.1	31.6	65	63.9	47.4	18.2	129

Jigawa	27.1	38.3	13.3	353	24.6	21.1	1.4	9.6	78	26.9	35.2	11.1	439
Kaduna	62.1	43.5	16.9	417	(54.2)	(51.7)	(7.4)	(34.7)	58	61.3	44.5	15.8	484
Kano	30.3	40.5	14.6	604	39.2	42.3	17.1	34.2	86	32.0	40.7	15.0	709
Katsina	34.6	52.4	19.8	560	47.9	34.0	2.2	24.4	90	36.2	49.9	17.4	673

() Sample data are based on 25-49 unweighted cases (*) Sample data are fewer than 25 unweighted cases

Table NU.8: Infant and young child feeding (IYCF) practices (continued)

Percentage of children age 6-23 months who received appropriate liquids and solid, semi-solid, or soft foods the minimum number of times or more during the previous day, by breastfeeding status, Nigeria, 2016-17

State	Currently breastfeeding				Currently not breastfeeding				All				
	Percent of children who received:				Percent of children who received:				Percent of children who received:				
	Minimum milk children age 6-23 months	Minimum diversity ⁴	Minimum frequency ⁵	Number of acceptable children age 6-23 months	Minimum age diversity ^a	Minimum frequency ^b	Minimum least 2 diet ^{1, c} 6-23 months	Number of dietary meal diversity ^a	At frequency ^b	Number of dietary meal diet ^{2, c} feeds ³ 6-23 months	Minimum acceptable children age 6-23 months	Minimum diet ^c 6-23 months	
Kebbi	36.6	37.1	15.0	232	(59.8)	(38.2)	(11.2)	(31.2)	34	38.8	37.2	14.5	273
Kogi	38.1	39.5	14.4	61	49.4	46.5	11.6	25.7	34	45.3	42.0	13.4	103
Kwara	38.9	24.3	14.9	59	(68.2)	(11.7)	(8.7)	(18.4)	23	47.5	20.8	13.2	82
Lagos	43.3	38.9	18.0	191	50.8	49.8	13.5	51.9	125	46.2	43.2	16.2	320
Nasarawa	37.1	52.4	26.1	121	65.0	47.2	16.5	35.2	40	44.0	51.1	23.7	166
Niger	40.0	41.2	16.4	282	(71.2)	(41.6)	(14.6)	(20.7)	67	44.5	41.3	16.0	365
Ogun	46.4	35.7	25.0	55	81.3	32.3	22.3	33.5	35	60.1	34.4	23.9	92
Ondo	45.9	38.3	14.5	69	(58.0)	(47.1)	(6.1)	(9.3)	44	51.3	41.8	11.2	115
Osun	43.0	10.5	5.9	88	(70.9)	(24.6)	(6.2)	(11.6)	28	49.5	14.0	6.0	117
Oyo	27.0	23.8	6.5	151	(60.3)	(28.1)	(7.6)	(26.2)	51	37.3	24.9	6.8	214
Plateau	29.6	50.8	16.8	180	40.3	65.7	9.8	15.5	70	33.1	54.9	14.9	252
Rivers	52.2	61.5	34.7	68	65.1	51.0	17.1	31.4	57	57.8	56.7	26.7	126
Sokoto	37.3	28.1	11.3	253	(49.5)	(37.1)	(7.9)	(17.8)	25	38.1	28.9	11.0	291

Taraba	31.6	54.8	24.2	97	(30.8)	(39.0)	(6.3)	(6.3)	22	31.8	52.0	21.0	122
Yobe	30.8	20.5	7.5	269	(*)	(*)	(*)	(*)	20	33.3	21.8	8.0	296
Zamfara	27.7	32.7	14.0	342	(52.3)	(28.4)	(0.0)	(21.2)	41	31.1	32.3	12.5	400
FCT Abuja	53.7	46.9	29.5	38	75.9	44.5	19.7	29.5	25	63.2	45.9	25.5	64

¹ MICS indicator 2.17a - Minimum acceptable diet (breastfed) ²
MICS indicator 2.17b - Minimum acceptable diet (non-breastfed) ³
MICS indicator 2.14 - Milk feeding frequency for non-breastfed children
⁴
MICS indicator 2.16 - Minimum dietary diversity
⁵
MICS indicator 2.15 - Minimum meal frequency

^a Minimum dietary diversity is defined as receiving foods from at least 4 of 7 food groups: 1) Grains, roots and tubers, 2) legumes and nuts, 3) dairy products (milk, yogurt, cheese), 4) flesh foods (meat, fish, poultry and liver/organ meats), 5) eggs, 6) vitamin-A rich fruits and vegetables, and 7) other fruits and vegetables.

^b Minimum meal frequency among currently breastfeeding children is defined as children who also received solid, semi-solid, or soft foods 2 times or more daily for children age 6-8 months and 3 times or more daily for children age 9-23 months. For non-breastfeeding children age 6-23 months it is defined as receiving solid, semi-solid or soft foods, or milk feeds, at least 4 times.

^c The minimum acceptable diet for breastfed children age 6-23 months is defined as receiving the minimum dietary diversity and the minimum meal frequency, while it for non-breastfed children further requires at least 2 milk feedings and that the minimum dietary diversity is achieved without counting milk feeds.

() Sample data are based on 25-49 unweighted cases

(*) Sample data are fewer than 25 unweighted cases

Table NU.9: Bottle feeding

Percentage of children age 0-23 months who were fed with a bottle with a nipple during the previous day, Nigeria, 2016-17

	Percentage of children age 0-23 months fed with a bottle with a nipple ¹ months		Number of children age 0-23		
Total			20.2	10,898	
Geopolitical zone					
North Central	21.4	1,658	North East	15.2	2,297
North West	18.6	4,296	South East	33.8	615
South West			South South	26.5	865
				22.0	1,167
Sex					
Male			21.4	5,440	
Female			18.9	5,457	
Age (months)					
0-5	23.2	2,723	6-11	24.9	2,640
12-23				16.4	5,535
Residence					
Urban			24.1	3,241	
Rural			18.5	7,656	
Mother's education					
None	15.8	3,084	Non-formal	14.0	2,397
	2,994		Primary	21.2	1,595
Higher			Secondary	25.6	
				32.4	827
Wealth index quintile					
Poorest	11.8	2,439	Second	17.3	2,392
Middle				20.8	2,115
Fourth				24.0	2,030
Richest				29.7	1,922
Ethnicity of household head					
Hausa	17.8	6,172	Igbo	33.1	921
Other ethnic group			Yoruba	23.1	998
				20.0	2,807

¹
MICS indicator 2.18 - Bottle feeding

Table NU.9: Bottle feeding (continued)

Percentage of children age 0-23 months who were fed with a bottle with a nipple during the previous day, Nigeria, 2016-17

	Percentage of children age 0-23 months fed with a bottle with a nipple ¹		Number of children age 0-23 months	
Total	20.2		10,898	
State				
Abia 39.9	92	Adamawa 21.9	255	Akwa Ibom 30.0
37.3	136	Bauchi 10.3	595	Bayelsa 12.7
245				65
Borno 18.6	660	Cross River 14.8	141	Delta 34.8
24.6	109	Edo 28.9	106	Ekiti 13.0
				47
Gombe 14.2	230	Imo 33.9	172	Jigawa 13.7
				578
Kaduna 26.3	608	Kano 31.6	956	Katsina 11.0
365		Kogi 15.7	135	Kwara 22.1
				110
Lagos 23.3	407	Nasarawa 27.8	225	Niger 12.5
120				490
Ondo				Ogun 19.8
				19.6
Osun 23.5	148	Oyo 22.8	289	Plateau 29.6
156				368
Sokoto 9.3	381	Taraba 16.7	162	Yobe 12.6
12.2	532			394
FCT Abuja				Zamfara
				19.2
				85

¹
MICS indicator 2.18 - Bottle feeding

Salt Iodization

Table NU.10: Iodized salt consumption

Percent distribution of households by consumption of iodized salt, Nigeria, 2016-17

	Percentage of households in which salt was tested	Number of households	Percent of households with:				Total	Number of households in which salt was tested or with no salt
			Salt test result					
			No salt	Not iodized 0 PPM	>0 and <15 PPM	15+ PPM ¹		
Total								
Geopolitical Zones								
North Central								
North East								
North West								
South East								
South South								
South West								
Residence								
Urban								
Rural								
Wealth index quintile								
Poorest								
Second								
Middle								
Fourth								
Richest								

¹ MICS indicator 2.19 - Iodized salt consumption

Note: The results of testing for salt iodisation are not shown, due to problems with data quality in parts of the sample. This is likely due to issues with test kits. The data is available in the microdata for the purpose of further analysis and investigation.

VI. Child Health

Vaccinations

Crude full immunization coverage describes the situation whereby children have received all antigens defined by the expanded programme on immunisation (EPI) without regard to the specified age or time interval between doses as prescribed by the national schedule. A child is considered fully vaccinated if he/she has received BCG (Bacillus Calmette-Guérin) vaccine, at least three doses of Polio vaccine, three doses of Pentavalent vaccine (Diphtheria, Pertussis, Tetanus, *Hemophilus Influenza* Type B and Hepatitis B), one of Measles containing vaccine (MCV), Inactivated Polio vaccine (IPV) and Yellow Fever vaccine.

The sample size for the Nigeria MICS 2016-17 was determined to be insufficient for estimating state level vaccination coverage for children aged 12 to 23 months in twenty states, namely: Abia, Akwa Ibom, Anambra, Bayelsa, Benue, Cross River, Delta, Edo, Ekiti, Enugu, Imo, Kogi, Kwara, Ogun, Ondo, Osun, Oyo, Plateau, Rivers and FCT (Abuja). In these twenty states, supplemental sampling was conducted to meet the requirements for vaccine coverage estimation for urban and rural areas; six geopolitical zones; the 36 states of the Federation and the Federal Capital Territory. The main objectives were to provide reliable estimates for coverage in vaccination antigens for children between the ages of 12 – 23 months at state level.

Note that Table CH.1 is the results of the MICS survey alone while Tables CH.2A to CH.2F are the results of the MICS and NICS surveys combined. Due to larger sample size, MICS/NICS results yield better precision than MICS only. Table CH.1 results are only presented as these carry the disaggregate opportunities of the full survey.

Table CH.1: Vaccinations in the first years of life

Percentage of children age 12-23 months and 24-35 months vaccinated against vaccine preventable childhood diseases at any time before the survey and by their first birthday, Nigeria, 2016-17

Children age 12-23 months:		Children age 24-35 months:	
<u>Vaccinated at any time before the survey according to:</u>	Vaccinated by 12	<u>Vaccinated at any time before the survey according to:</u>	Vaccinated by 12
	Vaccination Mother's months of	Either age ^a	card report Either age

Antigen									
BCG ¹	27.8	25.3	53.1	52.8		18.4	32.5	50.9	49.1
Polio									
At birth	23.5	23.4	46.9	46.9		16.3	29.9	46.2	44.9
1	25.5	25.0	50.4	49.8	17.2	31.1	48.3	45.2	
2	23.3	20.2	43.5	43.0	16.0	26.2	42.1	38.7	
3 ²	21.4	13.3	34.7	34.0			14.5	15.7	30.2
						PENTA/DPT			
1	26.9	22.3	49.3	48.8	18.4	29.4	47.8	44.7	
2	24.7	16.0	40.8	40.3	16.8	21.3	38.2	35.1	
3 ^{3,4,5}	23.0	11.4	34.4	33.6			15.5	16.8	32.3
HepB at birth	20.3	9.7	30.1	30.0			16.3	14.1	
PCV									
PCV 1	19.3	20.4	39.6	38.8		12.3	27.6	39.9	36.3
PCV 2	17.9	15.2	33.1	32.4		11.0	19.9	30.8	27.4
PCV 3	16.6	10.7	27.2	26.2		10.2	15.0	25.1	21.1
Inactivated Polio Vaccine	18.8	23.6	42.4	40.2		8.2	30.4	38.7	29.7
Yellow fever ⁶	19.6	19.3	39.0	36.0		14.1	27.1	41.3	33.4
Measles ⁷	20.4	21.4	41.8	38.5		15.0	29.4	44.3	36.5
Fully vaccinated ^{8, b}	16.3	4.7	21.0	17.5		11.8	7.0	18.8	11.9
No vaccinations	0.1	4.0	4.1	4.1		0.1	3.9	4.0	5.3
Number of children	5,535	5,535	5,535	5,535		5514	5514	5514	5514

¹ MICS indicator 3.1 - Tuberculosis immunization coverage ² MICS indicator 3.2 - Polio immunization coverage ³ MICS indicator 3.3 - Diphtheria, pertussis and tetanus (DPT) immunization coverage ⁴ MICS indicator 3.5 - Hepatitis B immunization coverage ⁵ MICS indicator 3.6 - Haemophilus influenzae type B (Hib) immunization coverage ⁶ MICS indicator 3.7 - Yellow fever immunization coverage ⁷ MICS indicator 3.4; MDG indicator 4.3 - Measles immunization coverage ⁸ MICS indicator 3.8 - Full immunization coverage

^a All MICS indicators refer to results in this column

^b Includes: BCG, Polio3, PENTA3/DPT3, Measles and Yellow fever as per the vaccination schedule in Nigeria

Table CH.2A (MICS/NICS): Percentage of children 12-23 months with any evidence of vaccination

Percentage of children age 12-23 months currently vaccinated against vaccine preventable childhood diseases, Nigeria 2016-17

	Percentage of children who received:														Children age 12-23 months
	BCG	HepB at Birth	Polio				Pentavalent			Yellow fever	Measles (MCV1)	Full ^a	Card seen		
			At birth	1	2	3	1	2	3						
Total	53.5	30.2	47.4	49.7	42.5	33.2	48.7	39.9	33.3	38.8	41.7	22.9	53.5	29.0	6,268
Geopolitical Zone															900
North Central	63.0	38.3	56.1	59.2	53.3	37.3	58.6	48.3	39.0	49.9	52.4	26.5	63.0	30.9	
North East	52.6	19.2	41.7	46.4	36.7	29.8	46.7	37.3	28.2	32.8	36.0	19.6	52.6	24.4	1,346
North West	30.0	14.1	28.6	29.4	23.6	19.3	25.3	17.4	13.7	19.1	22.4	8.5	30.0	15.6	2,468
South East	90.1	64.9	82.5	79.6	70.9	52.4	85.3	73.9	65.9	69.9	72.6	44.4	90.1	47.1	353
South South	83.9	58.2	72.3	77.6	69.1	53.1	79.9	72.0	64.8	68.2	69.0	42.5	83.9	51.6	503
South West	85.6	60.4	78.3	80.1	72.9	59.7	81.6	73.2	66.4	68.4	71.7	50.2	85.6	57.3	698
Residence															1,970
Urban	75.0	47.1	68.4	67.9	59.8	48.3	69.3	59.0	50.8	60.5	62.8	38.5	75.0	41.6	
Rural	43.7	22.4	37.8	41.3	34.6	26.4	39.3	31.1	25.3	28.8	32.0	15.7	43.7	23.2	4,298
Sex															3,121
Male	54.0	30.0	48.6	50.9	43.2	33.3	49.8	40.5	32.6	38.6	41.8	22.6	54.0	28.7	
Female	53.0	30.4	46.3	48.5	41.8	33.2	47.7	39.3	34.1	38.9	41.6	23.1	53.0	29.3	3,147
Mother's Education															1,355
None	23.9	8.4	22.2	26.8	21.4	17.3	19.2	13.5	8.9	14.3	17.0	5.2	23.9	11.0	
Primary	60.7	33.3	52.0	53.8	46.8	35.2	55.0	46.1	38.5	42.4	46.4	24.1	60.7	32.0	896
Secondary	82.2	49.9	73.1	74.3	64.5	52.1	76.2	65.6	56.9	63.0	66.0	41.3	82.2	46.8	1,735
Higher	93.9	69.2	90.5	82.0	74.8	61.4	92.3	81.3	73.8	86.5	88.7	54.7	93.9	52.3	490
Missing	33.4	15.4	27.6	32.3	26.2	18.4	29.4	20.6	15.4	18.9	21.7	9.0	33.4	17.6	1,792
Mother's Age (Years)															377
15-19	30.2	17.5	26.1	27.7	22.3	15.3	22.8	18.2	14.7	19.2	20.5	7.4	30.2	15.0	
20-29	52.0	29.3	47.0	48.7	40.9	33.0	46.8	38.0	32.1	37.6	39.7	22.2	52.0	28.9	2,873
30-39	60.0	34.5	53.2	55.5	48.4	37.3	55.8	46.5	38.6	43.9	48.3	26.7	60.0	33.0	2,324
40-49	49.3	24.7	39.2	46.1	40.8	31.2	47.0	36.4	30.5	36.0	38.2	21.2	49.3	24.0	587
50+	52.8	32.7	50.4	43.5	36.4	24.3	45.3	39.0	32.9	42.9	43.6	20.6	52.8	21.1	93

Don't know	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	14
Wealth index quintile															
Poorest	23.2	10.2	18.7	26.2	22	16.4	19.6	14.0	10.2	13.6	15.8	5.4	23.2	11.8	1,454
Second	39.0	17.3	33.6	38.5	31.2	23.8	34.3	25.7	20.0	23.2	27.2	11.2	39.0	19.3	1,370
Middle	54.7	30.0	48.4	48.4	40.8	32.0	49.0	39.0	32.5	38.3	41.1	22.2	54.7	30.8	1,205
Fourth	76.0	43.7	68.0	66.8	57.7	44.9	70.7	60.8	50.9	55.8	59.5	35.6	76.0	39.3	1,150
Richest	87.1	58.9	80.4	78.4	69.8	56.6	82.3	71.4	63.3	74.5	76.3	48.2	87.1	51.5	1,089
Ethnicity of household head															
Hausa	34.8	15.0	31.7	34.1	27.4	21.7	29.4	21.7	15.7	21.3	24.5	10.2	34.8	16.1	3,544
Igbo	89.2	64.3	83.1	79.3	70.2	52.2	85.4	73.7	66.1	72.3	74.6	45.3	89.2	48.7	523
Yoruba	86.9	62.4	79.7	81.6	74.5	60.8	84.1	74.9	67.2	71.1	75.0	51.1	86.9	55.6	612
Other ethnic group	70.6	40.5	58.4	62.5	54.8	42.2	66.0	55.8	48.9	54.3	56.4	32.9	70.6	41.1	1,590
<i>[a] Includes: BCG, Polio3, DPT3, HepB3, Hib3, and Measles</i>															

Multiple Indicator Cluster Survey 2016-2017

(*) Sample data are fewer than 25 unweighted cases

Table CH.2A (MICS/NICS): Percentage of children 12-23 months with any evidence of vaccination (continued)

Percentage of children age 12-23 months currently vaccinated against vaccine preventable childhood diseases, Nigeria 2016-17

Percentage of children who received:							Children	
HepB at	Polio			Pentavalent		Yellow	Measles	Card age 12- a seen 23
BCG At fever (MCV1)	Full months Birth	1 2 3	1 2 3					
	birth							

Total	53.5	30.2	47.4	49.7	42.5	33.2	48.7	39.9	33.3	38.8	41.7	22.9	29.0	6,268
State														
Abia	87.1	65.5	81.1	76.9	68.9	43.3	81.6	68.6	54.8	66.3	70.4	33.9	39.9	57
Adamawa	67.4	35.0	54.5	60.3	50.8	40.9	56.6	50.3	37.9	44.5	48.8	29.0	46.2	134
Akwa Ibom	82.4	59.3	70.6	75.8	70.9	58.7	80.2	73.4	68.4	64.2	63.7	44.2	46.8	120
Anambra	88.5	74.6	84.7	84.1	80.7	62.1	89.5	82.4	76.2	76.4	75.0	55.2	44.6	74
Bauchi	41.2	14.2	28.9	37.6	33.4	26.5	35.3	25.2	18.5	22.0	22.2	13.9	19.7	345
Bayelsa	65.9	33.9	48.2	63.8	55.3	35.4	61.2	50.3	42.6	45.8	51.6	28.5	37.0	41
Benue	66.4	53.9	62.9	66.4	62.7	45.1	68.3	59.5	57.4	50.6	53.6	37.0	37.9	132
Borno	80.6	24.1	66.1	69.4	50.7	41.5	72.9	63.9	47.7	50.8	58.1	31.5	31.9	421
Cross River	88.2	44.7	69.3	82.7	77.1	58.8	83.5	76.9	69.5	69.6	73.7	49.9	54.5	76
Delta	80.9	64.8	70.7	71.6	58.2	47.8	75.7	63.7	57.2	67.5	63.7	36.3	51.1	102
Ebonyi	82.5	61.5	77.6	69.6	60.6	46.9	79.7	66.2	54.4	56.4	57.6	35.0	49.7	59
Edo	96.7	69.5	89.4	86.9	78.1	52.7	88.6	86.1	74.5	83.8	86.1	45.7	55.9	81
Ekiti	86.5	56.1	84.3	76.5	71.7	57.9	87.1	80.1	72.2	70.3	80.1	48.0	65.5	30
Enugu	93.2	69.2	88.2	79.8	70.4	60.2	84.9	78.6	73.8	74.5	81.2	50.5	52.8	73
Gombe	54.4	29.9	45.0	50.1	41.2	35.9	44.7	29.1	25.0	30.5	32.4	16.7	25.8	122
Imo	95.6	55.3	80.2	83.9	71.2	47.7	88.1	71.7	65.6	72.0	74.6	43.5	47.5	91
Jigawa	25.6	11.2	26.0	15.8	10.2	6.7	19.5	9.0	7.1	9.0	10.4	1.8	11.8	337
Kaduna	51.4	26.8	40.9	39.8	36.7	34.4	43.7	32.5	29.5	42.7	43.1	24.9	23.1	376
Kano	33.7	11.4	29.4	27.3	18.9	13.7	27.9	20.9	15.9	22.3	24.1	9.5	19.6	554

Katsina	28.5	16.6	32.6	33.0	27.8	21.5	28.2	18.3	12.1	17.0	21.1	5.9	18.7	478
Kebbi	22.6	11.2	23.1	26.0	18.1	12.1	20.2	16.7	11.3	12.6	25.5	4.8	12.6	202
Kogi	73.3	46.9	62.7	60.3	46.9	36.4	63.7	47.6	38.4	55.7	65.0	29.9	41.5	89
Kwara	72.1	46.9	61.6	69.8	64.1	41.0	70.8	61.3	49.1	67.5	66.9	33.9	19.7	66
Lagos	92.9	70.8	88.5	91.0	86.2	74.7	93.6	85.6	80.2	84.9	88.0	68.1	67.5	244
Nasarawa	63.8	33.7	59.6	57.6	48.7	32.8	56.4	44.7	34.9	46.5	49.7	21.4	26.3	127
Niger	38.1	20.8	33.5	44.6	39.8	24.5	36.3	30.6	20.0	28.8	31.2	13.8	24.7	255
Ogun	80.0	57.2	75.7	69.2	57.8	48.0	71.1	58.9	52.1	56.5	58.7	35.0	45.0	72
Ondo	83.1	44.2	66.5	76.8	71.4	53.4	76.4	71.4	66.2	68.5	72.2	44.8	47.8	102
Osun	87.5	60.4	79.0	76.8	67.6	54.2	83.1	65.7	60.0	65.7	67.0	43.0	53.7	96
Oyo	77.1	56.9	69.7	72.7	63.6	49.5	69.1	64.9	54.1	49.2	53.1	37.4	53.9	155
Plateau	80.1	39.5	67.8	67.9	64.3	46.8	69.9	57.1	45.2	65.5	65.3	30.6	30.7	186
Rivers	82.0	61.7	75.0	80.7	70.4	56.0	82.0	72.8	66.0	69.4	70.7	44.8	60.0	82
Sokoto	16.3	4.6	12.6	15.1	10.1	7.1	9.4	5.2	2.9	6.4	9.8	2.2	5.2	218
Taraba	39.7	23.8	34.4	31.0	21.3	17.7	35.9	20.0	16.4	25.1	29.2	11.5	22.0	70
Yobe	16.3	2.8	12.1	15.2	12.6	9.4	17.5	11.3	8.7	14.6	14.7	6.5	7.0	253
Zamfara	19.0	11.0	23.4	42.8	37.9	35.2	14.7	9.5	8.9	12.2	16.2	4.9	8.2	303
FCT-Abuja	87.5	68.7	84.4	71.8	65.6	55.6	87.7	71.9	65.7	73.7	76.3	46.8	55.2	46

[a] Includes: BCG, Polio3, DPT3, HepB3, Hib3, and Measles

Multiple Indicator Cluster Survey 2016-2017



Table CH.2B (MICS/NICS): Percentage of children 12-23 months with evidence of valid dose vaccination

Percentage of children age 12-23 months currently vaccinated against vaccine preventable childhood diseases who receive vaccines at the recommended duration and frequency, Nigeria 2016-17

	Percentage of children who received:										Card seen	Number of children age 12-23 months
	HepB at Birth	Polio			Pentavalent			Yellow fever	Measles (MCV1)	Full ^a		
23		At birth	1	2	3	1	2	3				

Total	25.6	10.6	12.1	24.1	20.3	12.9	25.1	22.0	14.2	14.8	15.0	8.2	29.0	6,268
Geopolitical Zone														
North Central	26.5	10.6	10.8	25.8	22.0	12.8	27.0	23.7	14.7	15.3	15.3	8.2	30.9	900
North East	21.5	6.5	8.6	18.3	14.9	8.3	19.8	16.2	9.5	10.0	10.1	5.1	24.4	1,346
North West	12.4	3.6	4.5	11.6	8.4	4.7	11.9	9.3	5.3	5.0	5.8	2.5	15.6	2,468
South East	43.9	22.9	23.9	43.4	39.2	24.9	44.7	41.2	28.6	28.4	28.2	16.5	47.1	353
South South	48.0	21.1	23.1	46.8	39.5	26.7	47.1	42.6	28.1	31.0	30.1	17.3	51.6	503
South West	53.2	29.9	33.2	51.0	47.7	34.5	53.9	51.8	36.7	39.3	39.4	23.8	57.3	698
Residence														
Urban	38.5	20.1	22.2	35.3	30.7	21.7	37.2	33.5	23.2	25.8	26.1	15.7	41.6	1,970
Rural	19.6	6.3	7.4	19.0	15.6	8.8	19.5	16.8	10.0	9.7	10.0	4.8	23.2	4,298
Sex														
Male	25.0	10.7	12.2	23.7	20.4	12.6	24.9	21.7	14.0	14.5	14.9	8.3	28.7	3,121
Female	26.1	10.5	11.9	24.5	20.3	13.1	25.3	22.3	14.4	15.0	15.2	8.1	29.3	3,147
Mother's Education														
None	8.3	0.8	1.2	6.7	4.6	3.3	7.3	5.1	3.5	1.6	1.8	0.8	11.0	1,355
Primary	27.7	9.2	11.2	27.6	22.7	13.6	28.1	24.9	15.1	14.7	14.7	7.7	32.0	896
Secondary	42.9	19.1	21.9	40.4	35.1	22.6	42.2	37.9	25.0	27.4	27.7	15.4	46.8	1,735
Higher	48.9	33.7	36.4	48.8	44.5	31.1	50.7	48.5	33.0	39.6	38.5	22.1	52.3	490
Missing	14.4	4.2	4.6	12.9	10.1	5.4	13.5	10.8	6.3	5.8	6.7	3.3	17.6	1,792
Mother's Age (Years)														
15-19	12.1	2.7	3.6	11.5	8.9	4.5	11.1	9.8	5.3	4.8	6.1	1.8	15.0	377
20-29	25.7	9.6	11.1	24.3	20.2	12.2	25.0	21.6	13.6	14.3	14.3	7.7	28.9	2,873
30-39	29.3	14.2	15.7	27.2	23.5	15.6	28.9	25.7	17.0	18.0	18.2	10.0	33.0	2,324
40-49	20.5	7.2	8.5	20.1	17.0	10.9	21.4	18.8	12.2	11.8	12.4	7.2	24.0	587
50+	15.3	7.3	7.4	14.6	13.0	11.4	15.3	14.0	11.4	9.3	10.4	9.6	21.1	93
Don't know	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	14
Wealth index quintile														
Poorest	8.9	1.9	2.6	8.7	7.1	4.2	9.1	7.9	4.8	3.3	3.4	1.5	11.8	1,454
Second	15.4	3.6	4.5	15.2	11.2	5.5	15.5	12.1	6.6	6.7	7.1	2.5	19.3	1,370
Middle	27.8	9.4	11.7	25.2	20.7	10.7	26.5	22.1	13.3	13.3	13.9	6.2	30.8	1,205
Fourth	35.8	15.6	16.9	32.8	28.2	19.5	34.1	31.0	20.8	20.8	20.9	13.2	39.3	1,150
Richest	47.4	27.3	29.6	45.4	40.8	29.0	47.5	43.9	30.3	35.5	35.6	21.2	51.5	1,089
Ethnicity of household head														
Hausa	13.3	3.8	4.8	11.8	8.7	4.9	12.2	9.5	5.8	4.9	5.5	2.5	16.1	3,544
Igbo	44.6	24.0	25.4	41.7	37.4	25.5	44.7	41.0	27.5	31.4	31.1	16.9	48.7	523
Yoruba	51.0	28.4	32.9	49.9	46.6	32.7	52.1	50.1	35.5	37.7	38.3	23.6	55.6	612
Other ethnic group	37.0	14.6	15.9	35.7	30.6	18.7	37.1	32.8	20.4	22.5	22.2	12.2	41.1	1,590

[a] Includes: BCG, Polio3, DPT3, HepB3, Hib3, and Measles

Multiple Indicator Cluster Survey 2016-2017

(*) Sample data are fewer than 25 unweighted cases

Table CH.2B (MICS/NICS): Percentage of children 12-23 months with evidence of valid dose vaccination, (continued)

Percentage of children age 12-23 months currently vaccinated against vaccine preventable childhood diseases who receive vaccines at the recommended duration and frequency, Nigeria 2016-17

seen	23	Percentage of children who received:											Children Card age 12-		
		BCG	HepB at Birth	Polio			Pentavalent			Yellow fever	Measles (MCV1)	Full ^a			
				At birth	1	2	3	1	2					3 months	
Total State		25.6	10.6	12.1	24.1	20.3	12.9	25.1	22.0	14.2	14.8	15.0	8.2	29.0	6,268
Abia		36.6	15.7	17.0	35.8	34.8	21.9	39.1	35.4	21.3	23.2	23.7	14.2	39.9	57
Adamawa		41.0	16.7	18.8	41.8	38.8	20.5	39.5	35.5	19.5	22.8	22.8	13.5	46.2	134
Akwa Ibom		44.1	22.2	24.3	45.7	41.5	32.9	44.4	42.4	33.4	28.4	27.5	19.9	46.8	120
Anambra		41.9	26.1	23.4	40.9	38.8	24.9	43.6	40.9	26.8	28.5	23.2	17.5	44.6	74
Bauchi		16.9	4.4	7.3	15.4	12.8	7.5	15.4	12.9	9.0	7.7	7.5	3.3	19.7	345
Bayelsa		35.5	9.3	10.4	32.9	28.7	17.7	33.9	32.4	22.1	23.0	23.0	13.7	37.0	41
Benue		30.1	11.3	11.3	35.2	25.7	16.5	35.6	28.9	20.7	18.1	19.2	12.2	37.9	132
Borno		29.9	9.3	11.7	21.8	17.1	9.0	25.9	20.8	11.0	13.7	13.7	6.5	31.9	421
Cross River		49.7	12.4	18.7	47.7	42.1	24.5	47.2	40.1	24.0	24.8	24.2	15.9	54.5	76
Delta		47.7	18.4	18.8	47.1	36.1	23.7	47.8	41.7	24.1	30.4	26.2	11.8	51.1	102
Ebonyi		46.5	15.1	18.9	46.1	40.3	23.4	45.1	42.1	30.4	22.1	25.0	10.9	49.7	59
Edo		48.8	27.1	28.7	45.2	41.8	27.2	46.9	44.5	27.3	37.0	39.0	23.5	55.9	81
Ekiti		56.8	37.1	41.1	55.8	53.5	39.6	63.5	60.2	47.6	41.3	45.6	28.1	65.5	30
Enugu		48.2	31.5	33.6	46.7	44.0	31.4	48.0	45.8	36.6	32.2	34.6	22.5	52.8	73
Gombe		23.0	4.1	8.6	18.8	13.9	9.4	20.4	15.7	11.2	8.2	8.6	6.8	25.8	122
Imo		45.2	23.0	24.2	45.8	37.9	22.6	46.2	41.1	27.1	32.7	32.0	15.9	47.5	91
Jigawa		7.9	1.5	2.0	6.5	3.7	1.0	8.1	5.8	4.0	2.6	3.6	0.0	11.8	337
Kaduna		21.9	11.4	12.1	21.3	19.1	11.4	21.3	18.5	11.2	15.8	16.1	9.5	23.1	376
Kano		16.4	1.4	4.0	13.8	9.1	5.0	14.3	11.1	5.8	5.6	5.8	2.9	19.6	554
Katsina		13.9	4.1	4.4	14.5	10.4	5.9	14.0	11.1	6.8	2.6	4.7	1.2	18.7	478
Kebbi		8.0	2.3	2.9	7.4	3.7	1.6	9.3	4.8	1.8	1.1	1.9	0.3	12.6	202
Kogi		34.3	12.8	12.1	34.4	28.2	18.7	35.8	29.4	20.3	21.7	22.5	12.6	41.5	89
Kwara		13.3	4.3	4.8	11.6	9.6	6.9	11.9	11.4	8.4	7.6	6.6	4.9	19.7	66
Lagos		62.7	41.6	42.8	60.4	57.4	41.6	65.1	64.1	42.7	55.1	54.9	31.0	67.5	244
Nasarawa		25.3	11.7	12.2	25.7	19.5	6.8	25.7	21.7	10.7	8.7	11.2	3.7	26.3	127
Niger		20.9	7.3	7.8	18.6	17.5	8.0	19.2	17.6	8.9	11.1	10.7	5.1	24.7	255
Ogun		44.7	23.2	28.1	41.5	40.9	30.4	41.5	40.1	30.9	29.9	25.5	18.5	45.0	72
Ondo		41.3	16.7	23.0	43.2	40.3	30.9	42.7	40.3	30.4	30.4	33.5	21.3	47.8	102
Osun		50.9	21.3	25.7	44.4	42.2	30.9	48.6	45.4	36.0	35.5	34.7	21.2	53.7	96
Oyo		50.8	26.9	30.2	48.7	42.9	28.9	50.6	47.6	32.4	26.7	27.0	17.6	53.9	155
Plateau		28.3	10.9	10.1	25.9	25.1	18.6	28.5	26.0	17.6	18.6	16.3	9.5	30.7	186
Rivers		58.1	31.0	31.8	55.8	41.4	27.5	57.1	49.6	32.9	39.1	39.2	17.0	60.0	82
Sokoto		2.2	0.9	0.3	2.7	0.9	0.7	1.9	1.2	0.7	0.7	1.6	0.7	5.2	218

Taraba	16.2	5.3	5.3	19.4	14.0	8.2	20.2	14.6	7.5	6.1	8.8	4.0	22.0	70
Yobe	4.4	0.5	0.9	3.6	2.0	1.6	4.8	3.3	2.0	2.2	2.2	0.0	7.0	253
Zamfara	6.4	2.4	2.8	6.1	4.1	2.6	5.6	4.1	2.1	2.4	2.9	0.7	8.2	303
FCT-Abuja	46.6	26.8	30.5	42.4	36.6	19.1	48.2	45.1	27.0	35.1	34.7	16.6	55.2	46

[a] Includes: BCG, Polio3, DPT3, HepB3, Hib3, and Measles

Table CH.2C (MICS/NICS): Percentage of children 12-23 months who received first dose in a multi-dose sequence but failed to receive the final dose,

The percentage and number of children who received the first dose of a vaccine and failed to receive subsequent dose(s), Nigeria 2016-17

	OPV1 to OPV3	Penta1 to Penta3	Penta1 to MCV	BCG to MCV
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	Percent	Number	Percent	Number	Percent	Number	Percent	Number
Total	33.9	3,373	30.5	3,370	20.7	3,370	24.0	3,648
Geopolitical Zone								
North Central	35.4	735	32.6	757	17.7	757	19.7	809
North East	31.5	387	41.8	376	30.1	376	35.0	420
North West	36.2	558	47.3	480	28.1	480	34.6	563
South East	36.6	476	25.8	511	20.0	511	21.3	539
South South	34.7	622	21.5	636	16.4	636	19.0	667
South West	28.7	595	21.1	610	17.9	610	20.6	650
Residence								
Urban	31.3	1,266	26.6	1,313	14.9	1,313	17.7	1,403
Rural	35.5	2,107	33.1	2,057	24.4	2,057	28.0	2,245
Sex								
Male	34.5	1,686	32.0	1,686	21.2	1,686	24.5	1,819
Female	33.4	1,687	29.0	1,684	20.2	1,684	23.6	1,829
Mother's Education								
None	35.2	273	51.1	182	29.1	182	36.2	224
Primary	34.1	578	31.2	587	25.0	587	27.4	645
Secondary	32.5	1,502	27.5	1,577	18.6	1,577	20.8	1,677
Higher	27.9	466	18.4	517	7.4	517	8.8	532
Missing	42.2	554	44.2	507	32.5	507	39.1	570
Mother's Age (Years)								
15-19	44.6	121	35.7	112	24.1	112	29.4	136
20-29	31.9	1,485	29.9	1,481	22.1	1,481	24.8	1,604
30-39	33.9	1,378	29.6	1,381	18.3	1,381	21.9	1,486
40-49	37.3	322	35.1	325	24.3	325	26.9	338
50+	47.3	55	30.4	56	12.5	56	23.5	68
Don't know	(*)	12	(*)	15	(*)	15	(*)	16
Wealth index quintile								
Poorest	36.0	411	43.9	335	31.0	335	34.5	386
Second	38.0	579	39.2	531	29.6	531	33.5	591
Middle	34.2	679	30.8	692	22.7	692	26.6	758
Fourth	34.1	806	27.5	853	18.2	853	21.3	904
Richest	30.1	898	23.6	959	12.9	959	15.0	1,009
Ethnicity of household head								
Hausa	35.5	935	46.1	816	28.3	816	34.5	948

Igbo	35.4	628	24.6	682	18.3	682	19.2	712
Yoruba	28.8	573	23.3	593	14.2	593	16.2	623
Other ethnic group	34.4	1,237	27.1	1,279	20.1	1,279	22.9	1,365

() Sample data are fewer than 25 unweighted cases*

Table CH.2C (MICS/NICS): Percentage of children 12-23 months who received first dose in a multi-dose sequence but failed to receive the final dose, (continued)

The percentage and number of children who received the first dose of a vaccine and failed to receive subsequent dose(s), Nigeria 2016-17

	OPV1 to OPV3		Penta1 to Penta3		Penta1 to MCV		BCG to MCV	
	Percent	Number	Percent	Number	Percent	Number	Percent	Number
Total	33.9	3,373	30.5	3,370	20.7	3,370	24.0	3,648
State								
Abia	43.6	110	35.1	114	18.4	114	21.1	123
Adamawa	31.0	87	33.7	83	20.5	83	28.4	95
Akwa Ibom	24.8	125	15.8	133	20.3	133	22.1	136
Anambra	28.1	96	15.7	102	18.6	102	19.6	102
Bauchi	27.0	89	46.4	84	41.7	84	49.5	95
Bayelsa	48.4	95	30.3	89	22.5	89	26.0	96
Benue	35.4	99	17.6	102	22.5	102	22.8	101
Borno	42.0	50	34.0	50	24.0	50	29.1	55
Cross River	27.6	98	21.8	101	13.9	101	18.7	107
Delta	33.0	100	29.0	107	19.6	107	21.2	113
Ebonyi	32.0	75	30.6	85	29.4	85	28.7	87
Edo	41.3	121	15.4	123	8.1	123	11.4	132
Ekiti	24.2	66	17.6	74	13.5	74	13.7	73
Enugu	32.6	89	21.9	96	16.7	96	16.2	105
Gombe	26.3	99	43.3	90	35.6	90	42.1	107
Imo	43.4	106	25.4	114	18.4	114	22.1	122
Jigawa	(53.7)	41	58.8	51	58.8	51	64.6	65
Kaduna	15.9	88	32.7	101	11.9	101	16.4	110
Kano	49.0	145	45.3	148	27.7	148	36.2	177
Katsina	34.1	85	58.3	72	31.9	72	34.7	72

Kebbi	48.4	62	(41.3)	46	(30.4)	46	24.1	54
Kogi	44.0	100	42.5	106	19.8	106	19.7	122
Kwara	40.2	82	30.5	82	7.3	82	7.1	84
Lagos	22.4	170	17.7	175	10.9	175	11.8	178
Nasarawa	42.0	100	38.1	97	18.6	97	24.3	107
Niger	41.4	87	37.3	67	22.4	67	28.6	70
Ogun	29.2	89	26.9	93	24.7	93	26.9	104
Ondo	33.6	107	14.6	103	12.6	103	17.2	116
Osun	29.4	68	30.1	73	24.7	73	27.6	76
Oyo	36.8	95	25.0	92	28.3	92	33.0	103
Plateau	30.6	144	38.0	150	18.7	150	21.5	172
Rivers	34.9	83	20.5	83	14.5	83	15.7	83
Sokoto	(47.4)	38	(70.4)	27	(33.3)	27	(48.7)	39
Taraba	(39.4)	33	(48.6)	35	(25.7)	35	(21.6)	37
Yobe	(37.9)	29	(50.0)	34	(23.5)	34	(12.9)	31
Zamfara	18.2	99	(48.6)	35	(17.1)	35	(30.4)	46
FCT-Abuja	21.1	123	26.1	153	15.0	153	15.0	153

() Sample data are based on 25-49 unweighted cases

Table CH.2D (MICS/NICS): Timeliness of vaccination for children 12-23 months,

Percentage and number of children with evidence of receiving vaccines at the recommended interval, Nigeria 2016-17

Timeliness of Doses ^{a,b}				Source of Timeliness Data
Penta1 doses given before six weeks of age	Measles doses given Penta intervals shorter than 28 days aged	Card children aged 12-23	children before nine months of age	Number of months

	Percent	Number	Percent	Number	Percent	Number							
Total	12.7	1,745	17.3	1,299	7.6	3,177	29.0	6,268					
Geopolitical Zone													
North Central	12.1	340	17.8	253	9.6	657	30.9	900					
North East	17.3	191	25.2	127	9.0	333	24.4	1,346					
North West	13.2	219	29.3	147	9.1	331	15.6	2,468					
South East	15.2	256	15.9	189	5.5	472	47.1	353					
South South	11.0	355	15.5	278	8.2	649	51.6	503					
South West	10.7	384	10.5	305	5.4	735	57.3	698					
Sex													
Male	10.8	859	16.0	620	8.3	1,564	28.7	3,121					
Female	14.6	886	18.6	679	6.9	1,613	29.3	3,147					
Residence													
Urban	12.2	705	13.2	584	6.7	1,333	41.6	1,970					
Rural	13.1	1,040	20.7	715	8.3	1,844	23.2	4,298					
Mother's Education													
None	7.4	68	41.0	1,355	12.8	298	19.1	194					
Primary	8.6	548	32.0	896	12.2	867	15.5	673					
Secondary	7.0	1,603	46.8	1,735	12.4	283	13.4	254					
Higher	7.0	554	52.3	490	16.6	229	21.9	137					
Missing	8.4	370	17.6	1,792	Mother's Age (Years)								
15-19	15.1	53	21.2	33	12.8	94	15.0	377					
20-29	14.1	811	17.5	587	7.0	1,451	28.9	2,873					
30-39	11.3	711	16.3	560	7.8	1,321	33.0	2,324					
40-49	11.6	147	21.0	100	7.9	265	24.0	587					
50+	(*)	19	(*)	15	(10.8)	37	21.1	93					
Don't know	(*)	4	(*)	4	(*)	9	(*)	14					
Wealth index quintile													
Poorest	12.8	149	26.4	87	8.4	263	11.8	1,454					
Second	12.5	248	24.5	155	11.5	409	19.3	1,370					
Middle	13.0	378	20.8	269	7.7	659	30.8	1,205					
Fourth	13.3	444	14.9	335	7.3	827	39.3	1,150					
Richest	12.2	526	12.8	453	6.1	1,019	51.5	1,089					
Ethnicity of household head													
Hausa	12.9	365	29.7	239	9.0	588	16.1	3,544					
Igbo	14.8	337	13.7	262	5.7	633	48.7	523					
Yoruba	10.2	342	10.1	278	6.3	668	55.6	612					
Other ethnic group	12.8	701	17.3	520	8.6	1,288	41.1	1,590					

(*) Sample data are fewer than 25 unweighted cases

() Sample data are based on 25-49 unweighted cases

Table CH.2D (MICS/NICS): Timeliness of vaccination for children 12-23 months (continued)

Percentage and number of children with evidence of receiving vaccines at the recommended interval, Nigeria MICS/NICS 2016-17

	Timeliness of Doses _{a,b}	Source of
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								Timeliness Data	
	Penta1 doses given before six weeks of age ^c		Measles doses given before nine months of aged		Penta intervals shorter than 28 days ^e		Card seen	Children age 12-23 months	
	Percent	Number	Percent	Number	Percent	Number			
Total	12.7	1,745	17.3	1,299	7.6	3,177	29.0	6,268	
State									
Abia	15.1	53	(17.1)	41	3.1	97	39.9	57	
Adamawa	20.0	55	(25.0)	44	7.5	106	46.2	134	
Akwa Ibom	13.4	67	13.7	51	1.5	132	46.8	120	
Anambra	17.6	51	(23.5)	34	13.8	94	44.6	74	
Bauchi	(10.3)	39	(32.1)	28	9.9	71	19.7	345	
Bayelsa	(8.3)	48	(20.5)	39	3.7	82	37.0	41	
Benue	(4.3)	46	(17.2)	29	15.9	82	37.9	132	
Borno	(*)	22	(*)	12	(11.8)	34	31.9	421	
Cross River	10.7	56	(30.0)	40	13.4	97	54.5	76	
Delta	9.4	64	(15.6)	45	11.6	112	51.1	102	
Ebonyi	(20.8)	48	(24.2)	33	2.2	90	49.7	59	
Edo	13.6	66	5.2	58	9.7	134	55.9	81	
Ekiti	7.8	51	(5.0)	40	2.1	97	65.5	30	
Enugu	12.0	50	(7.9)	38	2.2	92	52.8	73	
Gombe	(24.4)	45	(28.0)	25	5.3	76	25.8	122	
Imo	11.1	54	(9.3)	43	6.1	99	47.5	91	
Jigawa	(*)	23	(*)	10	(5.6)	36	11.8	337	
Kaduna	(14.3)	49	(15.9)	44	11.5	87	23.1	376	
Kano	13.2	76	41.2	51	8.0	112	19.6	554	
Katsina	(11.8)	34	(*)	17	(4.3)	47	18.7	478	

Kebbi	(*)	20	(*)	10	(*)	18	12.6	202
Kogi	8.8	57	(18.6)	43	8.2	98	41.5	89
Kwara	(*)	15	(*)	11	(0.0)	34	19.7	66
Lagos	15.8	114	9.0	100	4.9	225	67.5	244
Nasarawa	(17.8)	45	(28.6)	28	18.2	77	26.3	127
Niger	(15.8)	38	(19.2)	26	6.8	73	24.7	255
Ogun	13.8	58	(15.0)	40	4.8	105	45.0	72
Ondo	5.5	55	(8.2)	49	6.9	116	47.8	102
Osun	(8.9)	45	(8.8)	34	7.6	79	53.7	96
Oyo	6.6	61	(19.0)	42	7.1	113	53.9	155
Plateau	9.8	61	(18.8)	48	7.6	119	30.7	186
Rivers	9.3	54	(13.3)	45	9.8	92	60.0	82
Sokoto	(*)	6	(*)	7	(*)	10	5.2	218
Taraba	(*)	21	(*)	12	(13.3)	30	22.0	70
Yobe	(*)	9	(*)	6	(*)	16	7.0	253
FCT-Abuja	16.7	78	11.8	68	8.0	174	55.2	46

[a] Estimates are from pooled MICS and NICS survey datasets

[b] All timeliness percentages are unweighted estimates; all evidence of timely vaccination is from dates on home-based record (vaccination card)

[c] Number of children with a recorded date of birth and recorded date of Penta1 vaccination

[d] Number of children with a recorded date of birth and recorded date of Measles vaccination

[e] Number of Penta1-to-Penta2 pairs plus the number of Penta2-to-Penta3 pairs where the dates of vaccination are recorded on the card

(*) Sample data are fewer than 25 unweighted cases

() Sample data are based on 25-49 unweighted cases

Table CH.2E MICS/NICS: Missed opportunities for vaccination (MOV) 12-23 months

Overview of the percentage of children who had missed opportunities for vaccination, Nigeria 2016-17

	Number of children age 12-23 months who had survey seen	Number of children 12-23 months who had card	Weighted percent of children 12-23 months who had card seen	Number of children 12 months seen and 1+ vaccination visits	Number of children 12-23 months who experienced 1+ documented MOVs	Percent of children with age-eligible visits who experienced 1+ MOVs	Among children 1 with 1+ MOVs, percent who had ALL MOVs later corrected	Among children 1 with 1+ MOVs, percent who had NO MOVs later corrected	Among children 1 with 1+ MOVs, percent who had SOME BUT NOT ALL MOVs later corrected
Total	6,268	2,019	29.0	1,912	1,704	89.1	22.4	27.9	49.8
Geopolitical Zone									
North Central	1,200	405	30.9	372	336	90.3	21.7	28.0	50.3
North East	909	230	24.4	216	199	92.1	9.5	36.7	53.8
North West	1,943	296	15.6	274	245	89.4	9.4	40.4	50.2
South East	607	277	47.1	271	228	84.1	28.1	21.5	50.4
South South	819	396	51.6	378	340	89.9	28.5	16.8	54.7
South West	790	415	57.3	401	356	88.8	29.5	28.9	41.6
Residence									
Urban	1,797	799	41.6	759	670	88.3	26.7	25.2	48.1
Rural	4,471	1,220	23.2	1,153	1,034	89.7	19.5	29.6	50.9
Sex									
Male	3,111	989	28.7	925	818	88.4	23.8	27.4	48.8
Female	3,157	1,030	29.3	987	886	89.8	21.0	28.3	50.7
Mother's Education									
None	1,073	104	11.0	96	88	91.7	6.8	51.1	42.0
Primary	1,014	350	32.0	326	296	90.8	16.2	28.0	55.7
Secondary	2,037	975	46.8	928	824	88.8	25.5	23.4	51.1

Higher	562	302	52.3	294	258	87.8	36.0	22.9	41.1
Missing	1,582	288	17.6	268	238	88.8	10.1	39.9	50.0
Mother's Age (Years) 15-									
19	351	67	15.0	61	56	91.8	19.6	21.4	58.9
20-29	2,830	934	28.9	884	780	88.2	20.8	28.7	50.5
30-39	2,337	815	33.0	779	697	89.5	24.8	27.0	48.2
40-49	608	173	24.0	162	149	92.0	19.5	30.2	50.3
50+	122	24	21.1	21	(*)	(*)	(*)	(*)	(*)
Don't know	20	(*)	(*)	5	(*)	(*)	(*)	(*)	(*)
Wealth index quintile									
Poorest	1,368	188	11.8	168	154	91.7	9.1	37.7	53.2
Second	1,354	305	19.3	288	259	89.9	15.8	32.8	51.4
Middle	1,241	432	30.8	419	377	90.0	19.4	27.9	52.8
Fourth	1,169	507	39.3	482	433	89.8	24.2	24.2	51.5
Richest	1,136	587	51.5	555	481	86.7	30.8	25.4	43.9
Ethnicity of household head									
Hausa	2,791	472	16.1	438	404	92.2	12.4	38.1	49.5
Igbo	801	371	48.7	356	302	84.8	28.1	21.2	50.7
Yoruba	737	376	55.6	357	320	89.6	30.3	29.4	40.3
Other ethnic group	1,939	800	41.1	761	678	89.1	22.0	24.0	54.0

MOV = Missed opportunity for vaccination

(*) Sample data are fewer than 25 unweighted cases

Table CH.2E: Missed opportunity for vaccination (MOV) for children aged 12-23 months (continued)

Overview of the percentage of children who had missed opportunities for vaccination, Nigeria 2016-17

	Number of children age 12-23 months in survey	Number of children 12-23 months who had missed opportunities for vaccination	Weighted percent children 12-23 months who had missed opportunities for vaccination	Number of children 12-23 months with card seen and 1+ age-eligible vaccination visits	Number of children 12-23 months who experienced 1+ documented MOVs	Percent of children with age-eligible visits who experienced 1+ MOVs	Among children 1 with 1+ MOVs, percent who had ALL MOVs later corrected	Among children 1 with 1+ MOVs, percent who had SOME BUT NOT ALL MOVs later corrected	Among children 1 with 1+ MOVs, percent who had NOT ALL MOVs later corrected
Total	6,268	2,019	29.0	1,912	1,704	89.1	22.4	27.9	49.8
State									
Abia	145	58	39.9	57	50	87.7	16.0	18.0	66.0
Adamawa	139	66	46.2	61	57	93.4	7.0	35.1	57.9
Akwa Ibom	167	73	46.8	72	63	87.5	25.4	22.2	52.4
Anambra	115	51	44.6	51	37	72.5	40.5	21.6	37.8
Bauchi	221	48	19.7	45	(42)	(93.3)	(4.8)	(40.5)	(54.8)
Bayelsa	146	52	37.0	50	47	94.0	38.3	23.4	38.3
Benue	152	52	37.9	50	50	100.0	16.0	26.0	58.0
Borno	74	25	31.9	25	(23)	(92.0)	(8.7)	(26.1)	(65.2)
Cross River	122	66	54.5	61	54	88.5	22.2	18.5	59.3
Delta	146	70	51.1	67	62	92.5	24.2	11.3	64.5
Ebonyi	103	53	49.7	51	46	90.2	17.4	19.6	63.0
Edo	138	77	55.9	71	60	84.5	35.0	15.0	50.0
Ekiti	84	54	65.5	53	53	100.0	1.9	30.2	67.9
Enugu	115	55	52.8	53	41	77.4	34.1	22.0	43.9
Gombe	197	54	25.8	50	46	92.0	13.0	32.6	54.3
Imo	129	60	47.5	59	54	91.5	35.2	25.9	38.9
Jigawa	266	33	11.8	27	(24)	(88.9)	(8.3)	(41.7)	(50.0)
Kaduna	194	55	23.1	54	43	79.6	25.6	20.9	53.5
Kano	530	103	19.6	98	93	94.9	6.5	44.1	49.5
Katsina	253	45	18.7	43	(39)	(90.7)	(5.1)	(48.7)	(46.2)
Kebbi	214	28	12.6	26	(23)	(88.5)	(4.3)	(43.5)	(52.2)
Kogi	168	68	41.5	62	59	95.2	28.8	28.8	42.4
Kwara	119	23	19.7	18	(*)	(*)	(*)	(*)	(*)
Lagos	187	121	67.5	117	94	80.3	46.8	27.7	25.5
Nasarawa	167	47	26.3	46	(41)	(89.1)	(22.0)	(29.3)	(48.8)
Niger	188	49	24.7	46	(42)	(91.3)	(7.1)	(35.7)	(57.1)
Ogun	132	61	45.0	60	54	90.0	42.6	16.7	40.7
Ondo	147	64	47.8	59	54	91.5	13.0	42.6	44.4

Osun	88	47	53.7	46	(41)	(89.1)	(31.7)	(24.4)	(43.9)
Oyo	152	68	53.9	66	60	90.9	28.3	31.7	40.0
Plateau	226	69	30.7	65	59	90.8	23.7	22.0	54.2
Rivers	100	58	60.0	57	54	94.7	27.8	11.1	61.1
Sokoto	245	14	5.2	12	(*)	(*)	(*)	(*)	(*)
Taraba	98	23	22.0	23	(*)	(*)	(*)	(*)	(*)
Yobe	180	14	7.0	12	(*)	(*)	(*)	(*)	(*)
Zamfara	241	18	8.2	14	(*)	(*)	(*)	(*)	(*)
FCT-Abuja	180	97	55.2	85	69	81.2	20.3	29.0	50.7

MOV = Missed opportunity for vaccination

(*) Sample data are fewer than 25 unweighted cases, () Sample data are based on 25-49 unweighted cases

Table CH.2F MICS/NICS: Places Children Receive Vaccines

Percentage showing places where children received their vaccinations, Nigeria 2016-17

	Government hospital	Government health centre	Mobile / Outreach clinic by government services	Private facility (including NGO)	Campaigns / Supplementary immunization activities	Other	Number of children
Total	28.2	55.4	8.5	5.3	22.5	1.4	4,203
Geopolitical Zone							
North Central	36.5	51.6	11.6	5.2	24.9	0.3	905
North East	28.8	50.4	8.3	1.0	25.2	0.0	520
North West	39.9	23.7	8.5	1.4	33.8	4.5	843
South East	15.3	75.5	4.3	12.3	14.4	0.4	555
South South	25.5	66.7	7.7	5.9	20.5	1.1	697
South West	15.4	75.3	8.6	7.2	12.0	1.0	683
Residence							
Urban	35.4	54.3	8.0	8.2	15.7	1.5	1,493
Rural	24.2	55.9	8.7	3.7	26.3	1.3	2,710
Sex							
Male	29.5	54.2	8.9	5.2	21.3	1.3	2,105
Female	26.9	56.5	8.1	5.3	23.7	1.5	2,098
Mother's Education							
None	30.5	22.7	11.2	0.0	39.1	6.0	384
Primary	26.3	59.5	9.3	5.4	22.8	0.8	723
Secondary	29.2	63.9	7.1	5.9	15.9	0.6	1,771
Higher	34.9	56.9	6.5	11.8	14.6	0.7	541
Missing	21.8	47.3	11.0	1.9	34.4	1.8	784
Mother's Age (Years)							
15-19	22.9	59.4	12.4	0.6	24.1	2.4	170
20-29	28.4	55.2	8.0	4.9	22.3	1.2	1,855
30-39	28.5	55.7	7.7	6.5	21.7	1.4	1,680
40-49	28.0	52.5	12.1	4.0	25.2	1.5	404
50+	32.1	55.1	7.7	3.8	21.8	0.0	78
Don't know	(*)	(*)	(*)	(*)	(*)	(*)	16

Wealth index quintile							
Poorest	20.3	41.8	10.8	1.4	39.8	3.2	586
Second	23.1	51.3	10.2	3.1	27.5	2.4	754
Middle	24.6	60.4	10.7	5.2	24.2	1.0	861
Fourth	31.8	60.9	5.9	6.1	15.8	0.6	957
Richest	35.9	56.7	6.6	8.4	14.1	0.6	1,045
Ethnicity of household head							
Hausa	34.9	33.5	9.4	1.5	33.1	2.9	1,331
Igbo	21.7	70.1	4.5	11.5	14.5	0.3	738
Yoruba	21.2	71.0	10.1	6.0	13.1	1.1	655
Other ethnic group	28.4	60.8	9.0	5.3	21.1	0.7	1,479

(*) Sample data are fewer than 25 unweighted cases

Table CH.2F (MICS/NICS): Places Children Receive Vaccines (continued)

Percentage showing places where children received their vaccinations, Nigeria 2016-17

	Government hospital	Government health centre	Mobile / Outreach clinic by government services	Private facility (including NGO)	Campaigns / Supplementary immunization activities	Other	Number of children
Total	28.2	55.4	8.5	5.3	22.5	1.4	4,203
State							
Abia	18.9	78.7	4.7	4.7	12.6	0.0	127
Adamawa	27.2	63.1	5.8	1.9	5.8	0.0	103
Akwa Ibom	27.1	74.3	7.1	3.6	35.7	1.4	140
Anambra	23.4	59.8	5.6	18.7	24.3	0.9	107
Bauchi	21.0	46.4	7.2	0.7	35.5	0.0	138
Bayelsa	14.7	71.6	5.5	1.8	32.1	0.9	109
Benue	27.3	60.0	18.2	4.5	10.9	0.9	110
Borno	46.8	32.3	24.2	0.0	22.6	0.0	62
Cross River	13.9	83.3	8.3	0.9	30.6	1.9	108
Delta	23.7	66.9	2.5	6.8	8.5	0.0	118

Ebonyi	13.6	79.5	2.3	10.2	8.0	0.0	88
Edo	47.8	35.8	7.5	14.9	4.5	1.5	134
Ekiti	5.1	89.9	0.0	1.3	13.9	1.3	79
Enugu	12.8	70.6	4.6	20.2	14.7	0.0	109
Gombe	28.0	51.5	6.1	1.5	38.6	0.0	132
Imo	8.1	87.1	4.0	8.9	12.1	0.8	124
Jigawa	20.5	29.1	15.4	0.0	49.6	0.0	117
Kaduna	58.7	32.2	2.5	5.0	31.4	0.0	121
Kano	57.5	18.3	3.7	1.4	21.5	0.5	219
Katsina	21.0	30.3	10.1	1.7	44.5	0.0	119
Kebbi	35.2	31.8	1.1	0.0	54.5	0.0	88
Kogi	56.3	32.6	8.1	13.3	7.4	0.7	135
Kwara	31.1	57.8	13.3	3.3	16.7	0.0	90
Lagos	12.2	74.4	2.8	13.9	2.8	0.0	180
Nasarawa	26.0	52.0	10.6	2.4	33.3	0.0	123
Niger	30.7	38.6	16.8	4.0	28.7	0.0	101
Ogun	20.5	71.4	24.1	8.9	9.8	3.6	112
Ondo	12.1	84.7	10.5	0.0	14.5	0.0	124
Osun	24.1	67.1	13.9	6.3	26.6	2.5	79
Oyo	20.2	65.1	2.8	7.3	14.7	0.0	109
Plateau	31.6	55.1	6.4	2.7	33.7	0.5	187
Rivers	19.3	75.0	18.2	5.7	10.2	1.1	88
Sokoto	42.4	12.1	6.1	1.5	45.5	3.0	66
Taraba	(20.5)	(70.5)	(6.8)	(0.0)	(6.8)	(0.0)	44
Yobe	(43.9)	(34.1)	(2.4)	(0.0)	(19.5)	(0.0)	41
Zamfara	27.4	13.3	23.0	0.0	9.7	31.0	113
FCT-Abuja	46.5	62.3	12.6	5.7	34.6	0.0	159

() Sample data are based on 25-49 unweighted cases

Neonatal Tetanus Protection

The strategy for preventing maternal and neonatal tetanus is to ensure that all pregnant women receive at least two doses of tetanus toxoid vaccine. If a woman has not received at least two doses of tetanus toxoid during a particular pregnancy, she (and her newborn) are also considered to be protected against tetanus if the woman:

- Received at least two doses of tetanus toxoid vaccine, the last within the previous 3 years;
- Received at least 3 doses, the last within the previous 5 years; Received at least 4 doses, the last within the previous 10 years; Received 5 or more doses anytime during her life.

Table CH.3: Neonatal tetanus protection						
Percentage of women age 15-49 years with a live birth in the last 2 years protected against neonatal tetanus, Nigeria, 2016-17						
Percentage of women who received at least 2 doses during live birth in the last pregnancy	Percentage of women who did not receive two or more doses during last pregnancy but received:				Protected 5 or more doses during lifetime tetanus ¹	Number of women against with a last 2 years
	2 doses, the last within prior 3 years	3 doses, the last within prior 5 years	4 doses, the last within prior 10 years			

Total	47.7	7.0	0.4	0.2	0.1	55.3	11,547
Geopolitical zone							
North Central	43.4	6.0	0.2	0.2	0.2	49.9	1,770
North East	47.1	8.3	0.5	0.3	0.1	56.3	2,394
North West	34.1	7.6	0.5	0.0	0.0	42.2	4,603
South East	79.8	3.6	0.2	0.2	0.0	83.9	620
South South	70.3	6.2	0.0	0.0	0.0	76.5	900
South West	72.8	6.2	0.4	0.5	0.0	79.9	1,261
Residence							
Urban	66.4	8.9	0.6	0.2	0.0	76.2	3,426
Rural	39.8	6.3	0.3	0.1	0.1	46.5	8,121
Mother's Education							
None	29.8	7.0	0.1	0.2	0.1	37.3	3,208
Non-formal	28.1	5.5	0.4	0.0	0.0	34.0	2,560
Primary	52.0	9.4	0.3	0.2	0.0	61.9	1,716
Secondary	69.8	6.9	0.6	0.2	0.0	77.4	3,182
Higher	81.7	7.4	0.6	0.4	0.1	90.2	882
Wealth index quintile							
Poorest	20.6	4.8	0.2	0.0	0.0	25.6	2,587
Second	34.0	6.7	0.4	0.3	0.0	41.4	2,548
Middle	52.3	6.9	0.2	0.1	0.0	59.6	2,270
Fourth	65.2	9.5	0.5	0.0	0.2	75.4	2,113
Richest	76.0	7.9	0.7	0.4	0.0	85.0	2,028
Ethnicity of household head							
Hausa	35.9	7.6	0.5	0.1	0.1	44.2	6,543

Igbo	79.4	4.6	0.3	0.2	0.0	84.4	923
Yoruba	71.3	6.9	0.3	0.5	0.1	79.1	1,096
Other ethnic group	55.0	6.6	0.3	0.2	0.0	62.1	2,985
<i>¹ MICS indicator 3.9 - Neonatal tetanus protection</i>							

Table CH.3: Neonatal tetanus protection (continued)

Percentage of women age 15-49 years with a live birth in the last 2 years protected against neonatal tetanus, Nigeria, 2016-17

Percentage of women who received at least 2 doses during live birth in the last pregnancy	Percentage of women who did not receive two or more doses during last pregnancy but received:	Protected 5 or more doses during lifetime tetanus ¹	Number of women against with a last 2 years
received at least 2 doses, the last within prior pregnancy	3 doses, the last within prior 3 years	4 doses, the last within prior 5 years	

Total	47.7	7.0	0.4	0.2	0.1	55.3	11,547
State							
Abia	89.4	1.8	0.0	1.2	0.0	92.4	99
Adamawa	53.4	11.1	0.0	0.5	0.0	65.0	264
Akwa Ibom	68.0	5.9	0.0	0.0	0.0	73.9	228
Anambra	78.2	4.1	0.0	0.0	0.0	82.3	140
Bauchi	33.9	11.2	0.6	0.9	0.0	46.6	618
Bayelsa	62.4	2.9	0.4	0.0	0.0	65.7	73
Benue	50.7	1.9	0.6	0.3	0.0	53.5	271
Borno	70.5	7.4	0.9	0.0	0.0	78.9	692
Cross River	71.5	1.2	0.0	0.0	0.0	72.8	162
Delta	58.5	9.9	0.0	0.0	0.0	68.4	173
Ebonyi	61.7	3.4	1.3	0.0	0.0	66.4	111
Edo	81.7	10.2	0.0	0.0	0.0	91.9	101
Ekiti	66.1	9.0	0.0	0.7	0.0	75.8	54
Enugu	79.3	6.8	0.0	0.3	0.0	86.4	105
Gombe	45.2	11.1	1.0	0.4	0.8	58.4	236
Imo	87.7	2.4	0.0	0.0	0.0	90.2	164
Jigawa	25.0	15.0	0.8	0.0	0.0	40.7	595
Kaduna	63.4	6.8	0.6	0.0	0.0	70.8	663
Kano	43.0	10.3	0.4	0.1	0.0	53.8	1,038
Katsina	30.9	4.7	0.0	0.0	0.0	35.6	916
Kebbi	16.8	7.7	0.5	0.0	0.0	25.1	398
Kogi	61.2	12.3	0.0	0.0	0.5	74.0	133
Kwara	50.4	9.1	0.0	0.0	0.0	59.5	115

Lagos	80.8	5.2	0.6	0.0	0.0	86.7	429
Nasarawa	49.7	6.0	0.0	0.0	0.0	55.6	244
Niger	26.6	6.1	0.0	0.0	0.0	32.7	527
Ogun	67.9	7.3	0.3	0.0	0.0	75.5	132
Ondo	69.1	10.9	0.0	0.0	0.0	80.0	163
Osun	78.9	3.1	1.6	0.0	0.0	83.6	161
Oyo	64.2	5.6	0.0	1.7	0.0	71.5	322
Plateau	44.3	5.1	0.4	0.5	0.9	51.2	392
Rivers	81.1	6.5	0.0	0.0	0.0	87.6	163
Sokoto	17.8	3.8	0.4	0.0	0.0	22.0	409
Taraba	30.7	9.1	0.0	0.0	0.0	39.8	173
Yobe	31.4	1.7	0.0	0.0	0.0	33.1	410
Zamfara	22.4	3.5	0.7	0.0	0.0	26.6	583
FCT Abuja	63.3	8.0	0.0	0.0	0.0	71.3	89
<i>¹ MICS indicator 3.9 - Neonatal tetanus protection</i>							

Care of Illness

Table CH.4: Reported disease episodes

Percentage of children age 0-59 months for whom the mother/caretaker reported an episode of diarrhoea, symptoms of acute respiratory infection (ARI), and/or fever in the last two weeks, Nigeria, 2016-17

Percentage of children who in the last two weeks had:			
An episode of fever months	Number of children age 0-59	diarrhoea	Symptoms of ARI
			An episode of

Total	14.3	3.0	25.4	28,085
Geopolitical zones				
North Central	8.9	1.9	17.9	4,616
North East	18.4	4.8	29.9	6,041
North West 19.2 3.7 30.3 10,635				
South East 5.6 1.1 21.0 1,550				
South South	4.9	0.9	22.4	2,273
South West	8.3	0.9	14.9	2,968
Sex				
Male	14.8	3.2	26.0	14,213
Female	13.7	2.7	24.8	13,872
Residence				
Urban	12.6	3.0	21.7	8,553
Rural	15.0	2.9	27.0	19,532
Age (months)				
0-11	15.0	2.8	20.5	5,363
12-23	18.8	3.3	27.5	5,535
24-35	15.6	3.2	28.0	5,514
36-47	12.6	3.0	25.9	5,818
48-59	9.7	2.6	24.7	5,856
Mother's education				
None	15.0	3.0	25.5	8,134
Non-formal	21.5	3.5	34.0	6,196
Primary	11.9	3.4	23.5	4,330
Secondary	10.7	2.4	21.6	7,245
Higher	7.4	2.3	16.2	2,178
Wealth index quintile				
Poorest	17.5	3.5	28.5	6,369
Second	16.2	3.2	28.2	6,018
Middle	15.0	3.2	26.6	5,549
Fourth	12.2	2.5	24.1	5,156
Richest	9.1	2.3	17.8	4,993
Ethnicity of household head				
Hausa 18.8 3.9 30.1 15,592				
Igbo 7.0 1.3 19.8 2,310				
Yoruba	7.9	1.1	15.1	2,640
Other ethnic group	9.3	2.1	20.8	7,543

Table CH.4: Reported disease episodes (continued)

Percentage of children age 0-59 months for whom the mother/caretaker reported an episode of diarrhoea, symptoms of acute respiratory infection (ARI), and/or fever in the last two weeks, Nigeria, 2016-17

Percentage of children who in the last two weeks had:			Number of children age 0-59
<u>An episode of diarrhoea</u>	Symptoms of ARI	An episode of fever	months

Total	14.3	3.0	25.4	28,085
State				
Abia	6.8	3.1	31.9	224
Adamawa	13.7	4.0	22.0	624
Akwa Ibom	5.3	0.4	28.0	600
Anambra	5.9	0.2	15.4	383
Bauchi	13.7	2.6	29.7	1,524
Bayelsa	5.2	2.1	18.0	177
Benue	4.7	0.1	7.7	697
Borno	20.6	4.6	29.7	1,851
Cross River	5.1	1.3	29.1	393
Delta	6.9	0.2	20.4	409
Ebonyi	4.4	0.8	13.0	271
Edo	2.9	0.8	9.3	281
Ekiti	9.2	0.9	13.6	125
Enugu	5.5	1.8	17.7	268
Gombe	23.7	2.8	31.3	534
Imo	5.7	0.8	27.6	405
Jigawa	18.1	2.8	31.3	1,399
Kaduna	16.5	7.8	23.8	1,607
Kano	20.7	2.4	35.4	2,325
Katsina	18.6	4.3	27.1	2,066
Kebbi	23.6	4.0	31.0	935
Kogi	13.2	3.1	23.7	372
Kwara	5.7	1.1	7.3	358
Lagos	6.5	0.8	9.9	1,054
Nasarawa	8.8	0.9	17.1	607
Niger	12.1	3.3	25.7	1,270
Ogun	9.6	0.4	15.7	295
Ondo	9.7	0.4	16.3	408
Osun	10.6	0.3	22.1	342
Oyo	8.2	1.6	17.7	745
Plateau	7.6	2.0	16.1	1,103
Rivers	3.4	1.3	20.7	412
Sokoto	15.6	1.8	25.4	975
Taraba	14.2	1.8	14.0	422
Yobe	22.6	10.6	40.4	1,085
Zamfara	21.7	2.1	36.0	1,328
FCT Abuja	8.9	1.9	23.3	209

Diarrhoea

Table CH.5: Care-seeking during diarrhoea

Percentage of children age 0-59 months with diarrhoea in the last two weeks for whom advice or treatment was sought, by source of advice or treatment, Nigeria, 2016-17

Percentage of children with diarrhoea for whom:							Number of children age 0-59 months with diarrhoea in the last two weeks
Advice or treatment was sought from:							
Health facilities or providers					No advice or treatment sought		
Public	Private	Community health provider ^a	Other source	A health facility or provider ^{1, b}			

Total	21.2	23.3	3.7	16.7	26.7	40.7	4,009
Geopolitical zone							
North Central	14.8	37.1	2.7	21.2	29.9	29.2	411
North East	20.1	31.6	5.9	8.6	23.9	41.6	1,109
North West	23.8	15.3	3.2	20.3	27.5	42.4	2,045
South East	15.4	25.7	2.8	18.1	22.4	45.0	88
South South	17.0	32.8	0.2	18.5	26.8	32.8	112
South West	19.6	23.8	2.6	14.8	29.0	43.5	245
Sex							
Male	21.0	24.9	4.6	16.6	27.3	39.2	2,108
Female	21.4	21.5	2.8	16.9	26.1	42.3	1,901
Residence							
Urban	23.5	25.7	4.3	15.1	29.2	37.3	1,073
Rural	20.4	22.4	3.5	17.3	25.8	41.9	2,936
Age (months)							
0-11	21.0	19.0	2.5	17.3	25.8	43.9	806
12-23	20.6	23.5	3.2	16.5	25.8	41.1	1,041
24-35	23.0	24.1	4.2	16.0	28.5	38.2	860
36-47	19.1	26.5	3.9	17.7	25.8	39.4	735
48-59	22.9	23.6	5.6	16.0	28.3	40.8	567
Mother's education							
None	16.7	20.4	3.2	18.3	20.5	47.1	1,218
Non-formal	22.0	22.2	5.8	15.0	26.8	41.3	1,335
Primary	19.2	24.4	1.9	21.1	26.3	36.9	516
Secondary	26.6	27.4	2.6	15.3	33.5	33.9	777
Higher	29.3	30.5	2.4	11.7	41.4	31.9	162
Wealth index quintile							
Poorest	18.7	14.7	3.6	16.8	24.0	51.0	1,116
Second	19.7	18.3	3.6	19.2	23.5	44.2	975
Middle	22.2	30.3	3.8	17.3	28.4	32.5	833
Fourth	24.7	32.5	4.6	14.9	29.8	30.8	631
Richest	24.3	29.5	3.1	12.6	33.0	36.3	453
Ethnicity of household head							
Hausa	21.7	21.3	4.3	17.0	25.8	41.6	2,935
Igbo	19.8	29.4	1.9	12.3	29.9	41.1	162
Yoruba	19.5	19.2	2.6	18.4	27.9	44.9	210
Other ethnic group	20.1	31.6	2.4	16.0	29.7	35.3	702
¹ MICS indicator 3.10 - Care-seeking for diarrhea ^a Community health providers includes both public (Community health worker and Mobile/Outreach clinic) and private (Mobile clinic) health facilities ^b Includes all public and private health facilities and providers, but excludes private pharmacy							

Table CH.6: Feeding practices during diarrhea

Percent distribution of children age 0-59 months with diarrhoea in the last two weeks by amount of liquids and food given during episode of diarrhoea, Nigeria, 2016-17

	Drinking practices during diarrhoea Child was given to drink:							Eating practices during diarrhoea Child was given to eat:							Total Number of children age 0-59 months with diarrhoea in the last two weeks	
	Much less	Somewhat less	About the same	More	Nothing	Missing/ Don't know	Total	Much less	Somewhat less	About the same	More	Nothing	Missing/ Don't know	Total		
Total 4,009	22.0			36.4	30.4	9.1	1.8	0.4	100.0	22.5	38.9	31.6	3.7	3.1	0.2	100.0
Geopolitical zone																
North Central	20.7	37.5	30.5	8.2	1.7	1.4	100.0	21.6	36.9	34.8	3.4	2.5	0.7	100.0	411	
North East	25.5	37.4	29.4	6.9	0.7	0.1	100.0	29.1	39.1	28.6	1.7	1.4	0.2	100.0	1,109	
North West	20.8	37.2	29.9	9.7	2.0	0.3	100.0	19.1	40.6	31.7	4.4	4.1	0.0	100.0	2,045	
South East	29.7	40.3	22.5	4.9	2.5	0.0	100.0	25.3	38.7	31.9	3.1	0.4	0.5	100.0	88	
South South	25.8	23.7	23.9	19.2	6.3	1.1	100.0	30.9	25.9	29.8	9.1	4.3	0.0	100.0	112	
South West	13.0	28.7	44.6	11.3	2.4	0.0	100.0	18.1	32.9	39.5	4.4	4.6	0.4	100.0	245	
Sex																
Male	22.0	35.8	31.1	8.9	1.8	0.5	100.0	22.6	38.6	32.0	3.8	2.6	0.3	100.0	2,108	
Female	21.9	37.2	29.6	9.3	1.8	0.2	100.0	22.4	39.2	31.1	3.5	3.7	0.1	100.0	1,901	
Residence																
Urban	21.7	34.0	31.7	10.5	1.5	0.6	100.0	24.3	36.7	31.6	4.4	2.8	0.2	100.0	1,073	
Rural	22.1	37.3	29.9	8.5	1.9	0.3	100.0	21.9	39.7	31.6	3.4	3.2	0.2	100.0	2,936	
Age (months)																
0-11	21.6	38.1	31.8	6.0	2.1	0.4	100.0	20.6	37.5	32.5	2.5	6.4	0.5	100.0	806	
12-23	24.2	34.5	29.3	10.0	1.8	0.1	100.0	26.5	37.1	30.2	3.5	2.6	0.1	100.0	1,041	
24-35	21.4	36.3	33.0	8.0	0.9	0.5	100.0	19.8	42.1	32.6	3.9	1.4	0.1	100.0	860	
36-47	21.3	37.1	28.4	11.3	1.8	0.1	100.0	22.2	39.2	31.7	4.1	2.7	0.0	100.0	735	
48-59	20.2	36.9	28.9	10.3	2.7	1.0	100.0	22.5	39.0	31.1	4.7	2.6	0.2	100.0	567	
Mother's education																
None	20.3	38.8	30.2	8.6	1.9	0.3	100.0	22.3	37.9	33.5	3.3	2.7	0.3	100.0	1,218	
Non-formal	20.1	41.8	27.2	9.2	1.6	0.2	100.0	20.3	46.1	27.3	2.5	3.8	0.0	100.0	1,335	
Primary	21.3	28.7	37.9	10.4	1.6	0.0	100.0	19.9	31.5	39.4	5.2	3.7	0.2	100.0	516	

Secondary	27.7	30.4	29.9	9.6	1.9	0.6	100.0	28.8	33.7	29.6	5.1	2.4	0.3	100.0	777
Higher	25.4	28.3	36.0	4.6	2.9	2.8	100.0	20.8	35.5	37.3	3.5	2.9	0.0	100.0	162
Wealth index quintile															
Poorest	18.2	42.3	29.1	7.4	2.3	0.6	100.0	18.0	42.6	32.1	2.9	4.1	0.4	100.0	1,116
Second	19.1	38.8	32.3	8.4	1.5	0.0	100.0	18.6	42.3	32.9	3.2	2.9	0.1	100.0	975
Middle	23.9	35.7	26.9	12.1	1.3	0.1	100.0	25.7	37.9	29.7	4.7	1.8	0.3	100.0	833
Fourth	27.1	29.9	32.4	8.8	1.6	0.3	100.0	28.9	32.8	30.6	4.4	3.2	0.1	100.0	631
Richest	26.7	27.4	33.3	9.3	2.2	1.1	100.0	27.3	33.0	32.6	3.6	3.5	0.0	100.0	453
Ethnicity of household head															
Hausa	21.1	38.0	30.4	8.5	1.6	0.3	100.0	21.7	39.9	31.6	3.4	3.3	0.1	100.0	2,935
Igbo	27.7	36.5	23.3	9.5	2.5	0.4	100.0	26.8	36.2	31.8	4.2	0.7	0.3	100.0	162
Yoruba	12.5	29.1	45.9	9.5	2.8	0.3	100.0	19.7	33.5	37.7	4.2	4.5	0.4	100.0	210
Other ethnic group	27.2	32.1	27.1	11.0	2.0	0.7	100.0	25.8	37.1	29.9	4.3	2.5	0.4	100.0	702

Table CH.7: Oral rehydration solutions, recommended homemade fluids, and zinc

Percentage of children age 0-59 months with diarrhoea in the last two weeks, and treatment with oral rehydration salts (ORS), recommended homemade fluids, and zinc, Nigeria, 2016-17

Percentage of children with diarrhoea who received:														ORS and zinc ¹ Number of children age 0 - months with diarrhoea in the last two weeks
Oral rehydration salts (ORS)			Recommended homemade fluids					Zinc						
Fluid from packet	Pre- packaged fluid	Any ORS	Salt sugar solution	Coconut water	Rice water	Any recommen- d homemade fluid	ORS or any recommended homemade fluid	Tablet	Syrup	Any zinc				

Total	32.5	28.4	36.8	14.4	1.5	1.5	16.0	43.1	23.8	22.5	33.2	18.5	4,009
Geopolitical zone													
North Central	33.6	27.8	36.8	23.1	2.9	1.5	25.6	46.7	18.8	20.9	29.4	15.6	411
North East	30.8	29.0	35.2	14.5	0.9	1.6	15.9	41.9	20.4	21.1	28.3	12.2	1,109
North West	33.7	28.0	37.4	12.1	1.4	1.6	13.3	42.2	27.0	24.0	36.7	22.6	2,045
South East	23.5	23.9	30.2	14.7	2.6	1.1	17.9	39.0	21.4	24.0	34.3	16.9	88
South South	26.9	25.4	32.1	23.3	5.9	2.0	29.7	46.7	23.4	18.9	32.2	13.7	112
South West	34.1	33.3	44.2	15.3	0.0	0.6	15.9	49.2	22.2	20.2	31.7	20.0	245
Sex													
Male	33.4	29.4	37.9	13.9	1.5	1.6	15.5	43.5	24.4	24.6	34.7	19.3	2,108
Female	31.5	27.3	35.6	15.0	1.5	1.4	16.5	42.6	23.2	20.2	31.5	17.5	1,901
Residence													
Urban	46.2	41.1	50.8	16.1	1.3	0.8	17.1	54.8	26.6	24.6	35.6	25.2	1,073
Rural	27.5	23.8	31.7	13.9	1.6	1.8	15.6	38.8	22.8	21.8	32.3	16.0	2,936
Age (months)													
0-11	31.1	27.8	35.3	11.3	1.4	1.4	12.7	39.5	18.6	23.5	30.1	17.2	806
12-23	35.6	27.7	38.9	14.1	1.8	2.2	15.4	43.5	23.5	26.2	35.8	21.1	1,041
24-35	31.9	29.4	37.1	14.6	1.6	1.4	16.4	45.5	23.9	22.0	33.0	16.1	860
36-47	32.9	27.1	36.6	15.2	0.8	0.6	16.0	41.9	26.4	18.4	33.3	19.4	735
48-59	29.2	30.9	35.0	18.5	1.7	1.9	20.9	45.0	28.1	20.5	32.7	18.0	567
Mother's education													
None	23.1	19.1	26.1	14.2	1.2	1.6	15.2	32.7	17.0	16.4	25.9	11.2	1,218
Non-formal	33.9	30.7	39.4	12.5	1.1	1.7	13.8	45.1	24.8	23.4	33.8	19.6	1,335
Primary	35.8	27.4	39.0	14.4	1.9	1.3	17.0	46.0	26.4	24.8	36.4	21.8	516
Secondary	38.4	35.5	43.4	17.9	2.3	1.1	19.9	49.9	28.0	28.7	38.8	22.4	777
Higher	52.6	49.4	58.2	16.1	1.7	2.2	17.4	61.6	38.2	24.4	45.6	34.8	162
Wealth index quintile													
Poorest	21.3	16.8	25.5	12.1	1.0	1.8	13.4	32.6	17.8	16.7	26.2	11.5	1,116

Second	26.2	21.1	29.2	12.8	1.1	1.0	14.4	35.1	20.5	19.1	29.6	15.8	975
Middle	39.8	38.0	44.9	14.6	2.5	1.7	16.7	52.1	27.8	27.8	37.2	22.4	833
Fourth	44.5	39.2	48.8	18.9	1.8	1.8	20.0	54.8	29.3	29.2	41.6	23.1	631
Richest	43.2	40.3	49.2	17.3	1.4	1.3	18.6	53.0	30.6	25.0	38.9	28.0	453
Ethnicity of household head													
Hausa	33.4	28.8	37.4	13.8	1.1	1.6	14.9	43.3	24.9	23.0	33.7	19.4	2,935
Igbo	33.8	32.5	39.9	15.1	1.4	1.5	17.7	48.1	23.9	26.1	38.7	24.3	162
Yoruba	34.7	32.7	44.3	17.9	0.0	0.0	17.9	49.1	19.3	19.0	27.8	15.5	210
Other ethnic group	27.9	24.8	31.3	16.2	3.5	1.6	19.5	38.9	20.4	20.5	31.4	14.0	702
¹ MICS indicator 3.11 - Diarrhoea treatment with oral rehydration salts (ORS) and zinc													

Table CH.8: Oral rehydration therapy with continued feeding and other treatments

Percentage of children age 0-59 months with diarrhoea in the last two weeks who were given oral rehydration therapy with continued feeding and percentage who were given other treatments, Nigeria, 2016-17

	Children with diarrhoea who were given:															Number of children age 0-59 months with diarrhoea in the last two weeks
	Zinc	ORS or increased fluids	ORT (ORS or recommended homemade fluids or increased fluids)	ORT with continued feeding ¹	Other treatments								Not given any treatment or drug			
					Pill or syrup				Injection							
					Anti-biotic	Anti-motility	Other	Unknown	Anti-biotic	Non-antibiotic	Unknown	Intra-venous		Home remedy, herbal medicine	Other	
Total	33.2	42.1	47.9	33.4	4.3	1.0	3.5	5.3	8.5	0.5	1.3	0.1	0.0	6.5	25.9	4,009
Geopolitical zone																
North Central	29.4	41.6	51.4	37.7	3.1	0.6	8.0	9.0	7.8	1.4	3.2	0.5	0.0	12.3	18.5	411
North East	28.3	38.1	44.8	27.9	5.8	1.9	2.0	4.6	12.4	0.1	0.7	0.0	0.0	5.8	23.4	1,109
North West	36.7	43.8	48.1	34.8	2.4	0.5	2.9	5.2	6.6	0.6	1.5	0.0	0.0	5.0	29.8	2,045
South East	34.3	33.8	41.3	31.8	4.7	4.9	5.9	7.9	11.8	1.8	0.5	0.0	0.0	7.3	20.7	88
South South	32.2	40.7	51.8	31.4	6.3	0.0	5.1	7.7	4.4	0.0	2.8	1.1	0.0	14.3	20.5	112
South West	31.7	50.8	54.9	40.3	13.3	0.4	6.3	1.5	8.0	0.4	0.0	0.0	0.0	8.5	21.2	245
Sex																
Male	34.7	42.9	48.3	34.4	4.1	0.9	3.4	5.2	8.6	0.8	1.1	0.1	0.0	6.4	25.9	2,108
Female	31.5	41.3	47.5	32.3	4.5	1.0	3.7	5.4	8.3	0.3	1.6	0.1	0.0	6.6	26.0	1,901
Residence																
Urban	35.6	56.2	60.0	41.5	4.0	0.7	4.0	3.6	10.7	0.4	0.8	0.1	0.0	8.8	18.3	1,073
Rural	32.3	37.0	43.5	30.4	4.3	1.0	3.3	5.9	7.7	0.6	1.6	0.1	0.0	5.6	28.7	2,936
Age (months)																
0-11	30.1	39.5	43.6	30.3	2.9	0.5	4.2	5.1	6.4	1.0	1.3	0.0	0.0	6.9	33.5	806
12-23	35.8	43.9	48.4	31.6	4.2	0.4	3.7	4.9	10.3	0.4	0.7	0.3	0.0	6.7	25.2	1,041
24-35	33.0	41.6	49.1	36.2	4.1	1.3	3.4	5.4	7.7	0.2	1.7	0.1	0.0	6.7	23.5	860
36-47	33.3	43.8	48.8	34.4	6.2	1.6	3.5	6.3	9.5	0.6	1.4	0.0	0.0	5.3	22.0	735
48-59	32.7	41.3	50.2	35.6	4.1	1.2	2.2	4.7	7.9	0.5	2.0	0.0	0.0	6.9	25.2	567
Mother's education																

None	25.9	31.8	38.0	25.3	3.4	0.5	2.8	6.8	9.8	0.6	2.2	0.2	0.0	6.7	32.7	1,218
Non-formal	33.8	45.2	50.5	36.6	2.4	1.0	2.0	5.4	7.7	0.6	1.1	0.0	0.0	4.6	26.2	1,335
Primary	36.4	44.3	51.1	36.4	4.6	1.5	4.9	4.4	9.5	0.2	1.3	0.0	0.0	6.5	24.4	516
Secondary	38.8	47.8	53.5	35.3	7.5	1.2	6.3	3.7	7.3	0.6	0.4	0.2	0.0	9.2	18.2	777
Higher	45.6	60.5	64.0	48.6	10.1	0.7	3.8	3.3	7.1	0.0	1.3	0.0	0.0	7.0	14.1	162
Wealth index quintile																
Poorest	26.2	30.9	37.6	26.8	3.3	0.7	3.1	6.4	6.6	0.7	1.5	0.0	0.0	5.6	34.8	1,116
Second	29.6	34.9	40.0	29.9	4.4	1.1	2.5	7.1	8.9	0.2	1.7	0.2	0.0	5.5	32.6	975
Middle	37.2	51.8	58.5	41.5	3.4	1.2	4.0	4.4	10.0	0.7	1.4	0.1	0.0	5.8	17.4	833
Fourth	41.6	52.1	57.6	36.2	5.8	1.0	3.1	3.1	7.9	0.6	0.6	0.0	0.0	8.4	16.8	631
Richest	38.9	53.5	57.3	38.2	5.8	0.6	6.3	3.3	10.1	0.5	1.1	0.3	0.0	9.4	17.9	453
Ethnicity of household head																
Hausa	33.7	42.5	48.1	33.6	2.8	0.4	2.4	5.2	8.4	0.6	1.5	0.0	0.0	5.8	27.5	2,935
Igbo	38.7	44.1	51.6	38.8	7.9	2.6	5.3	7.0	8.6	0.6	1.6	0.0	0.0	11.6	13.6	162
Yoruba	27.8	49.4	53.2	36.8	10.7	0.0	6.1	0.6	10.7	0.0	0.2	0.5	0.0	5.4	24.2	210
Other ethnic group	31.4	38.0	44.6	30.2	7.7	3.3	6.8	6.7	7.9	0.5	0.9	0.2	0.0	8.5	22.7	702

¹ MICS indicator 3.12 - Diarrhoea treatment with oral rehydration therapy (ORT) and continued feeding

Table CH.9: Source of ORS and zinc

Percentage of children age 0-59 months with diarrhoea in the last two weeks who were given ORS, and percentage given zinc, by the source of ORS and zinc, Nigeria, 2016-17

Percentage of children who were given ORS as treatment for diarrhoea in the last two weeks		Percentage of children for whom the source of ORS was given as who were					Percentage of children for whom the source of zinc was given as who were					Number of children age 0-59 months
ORS	zinc	Public	Private	Community health provider ^a	Other source	A health facility or provider ^b	Public	Private	Community health provider ^a	Other source	A health facility or provider ^b	Number of children age 0-59 months

Total	36.8	33.2	4,009	34.4	42.9	7.7	22.7	77.3	1,476	35.6	42.1	7.4	22.2	77.7	1,330
Geopolitical zone															
North Central	36.8	29.4	411	19.0	57.9	2.4	23.0	77.0	151	24.9	57.9	1.7	16.5	82.8	121
North East	35.2	28.3	1,109	29.7	56.5	10.7	13.8	86.2	390	31.3	65.0	8.0	3.8	96.2	314
North West	37.4	36.7	2,045	42.0	31.2	8.8	26.8	73.2	764	40.9	29.3	9.2	29.8	70.2	751
South East	30.2	34.3	88	(33.4)	(42.3)	(4.6)	(24.3)	(75.7)	26	(31.1)	(58.1)	(2.1)	(10.8)	(89.2)	30
South South	32.1	32.2	112	25.8	51.4	0.0	22.8	77.2	36	(24.6)	(46.1)	(1.3)	(29.3)	(70.7)	36
South West	44.2	31.7	245	21.6	53.5	0.8	24.9	75.1	108	25.2	41.1	0.5	33.7	66.3	78
Sex															
Male	37.9	34.7	2,108	34.5	42.2	10.0	23.4	76.6	799	33.8	44.4	8.6	21.7	78.2	732
Female	35.6	31.5	1,901	34.2	43.9	5.0	21.9	78.1	677	37.7	39.4	5.8	22.9	77.1	598
Residence															
Urban	50.8	35.6	1,073	31.9	47.6	7.0	20.5	79.5	545	40.6	42.3	7.9	17.0	83.0	382
Rural	31.7	32.3	2,936	35.8	40.2	8.2	24.0	76.0	931	33.5	42.0	7.2	24.3	75.6	947
Age (months)															
0-11	35.3	30.1	806	29.3	42.9	4.6	27.8	72.2	285	36.0	38.6	5.4	25.3	74.7	243
12-23	38.9	35.8	1,041	31.3	47.0	6.5	21.7	78.3	404	35.1	43.5	7.9	21.4	78.6	373
24-35	37.1	33.0	860	39.3	44.8	9.1	16.0	84.0	319	34.8	44.1	8.0	20.8	78.9	284
36-47	36.6	33.3	735	31.0	40.1	8.3	28.9	71.1	269	29.5	47.3	7.7	23.2	76.8	245

48-59	35.0	32.7	567	44.4	35.7	11.9	19.9	80.1	198	45.2	34.0	7.5	20.8	79.2	185
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() Sample data are based on 25-49 unweighted cases

Table CH.9: Source of ORS and zinc continued
 Percentage of children age 0-59 months with diarrhoea in the last two weeks who were given ORS, and percentage given zinc, by the source of ORS and zinc, Nigeria, 2016-17

	Percentage of children who were given as treatment for 0-59 diarrhoea:		Number of children age 0-59 months who were	Percentage of children for whom the source of ORS was:					Number of children age	Percentage of children for whom the source of zinc was:					Number of 0-children age months
	59 months who months			Health facilities or providers						Health facilities or providers					
	ORS	zinc	with diarrhoea in the last two weeks	Public	Private	Community health provider ^a	Other source	A health facility or diarrhoea in the last two weeks	Public	Private	Community health provider ^a	Other source	A health facility or diarrhoea in the last two weeks	treatment for diarrhoea in the last two weeks	
Mother's education															
None	26.1	25.9	1,218	29.5	44.9	5.4	25.6	74.4	317	27.8	44.4	6.8	27.5	72.2	315
Non-formal	39.4	33.8	1,335	36.1	43.1	14.1	20.8	79.2	526	39.3	40.7	11.2	20.0	80.0	452
Primary	39.0	36.4	516	30.6	39.0	4.8	30.4	69.6	201	29.0	45.1	4.8	25.9	74.1	188
Secondary	43.4	38.8	777	39.1	40.9	3.8	20.0	80.0	337	40.2	39.7	4.8	20.2	79.8	301
Higher	58.2	45.6	162	31.9	51.2	0.2	16.8	83.2	94	44.3	42.9	3.8	12.8	87.2	74
Wealth index quintile															
Poorest	25.5	26.2	1,116	35.7	33.3	8.1	30.9	69.1	285	34.1	32.8	7.9	33.1	66.9	292
Second	29.2	29.6	975	40.9	33.9	7.5	25.2	74.8	285	33.5	42.6	7.2	23.6	76.1	289
Middle	44.9	37.2	833	31.1	48.8	8.1	20.1	79.9	374	38.9	43.1	7.4	18.1	81.9	310
Fourth	48.8	41.6	631	35.6	45.3	10.5	19.2	80.8	308	35.3	47.1	7.7	17.6	82.4	263
Richest	49.2	38.9	453	28.0	53.8	3.3	18.2	81.8	223	36.0	47.8	6.3	16.2	83.8	176
Ethnicity of household head															
Hausa	37.4	33.7	2,935	36.3	39.6	9.6	24.1	75.9	1,098	38.3	38.5	9.2	23.1	76.9	988
Igbo	39.9	38.7	162	30.3	39.6	1.9	30.1	69.9	65	27.4	46.5	1.0	26.1	73.9	63

Yoruba	44.3	27.8	210	22.3	54.5	0.0	23.2	76.8	93	29.4	39.7	1.8	30.9	69.1	58
Other ethnic group	31.3	31.4	702	31.0	55.6	3.3	13.4	86.6	220	27.2	57.6	2.4	14.8	84.8	221

^a Community health provider includes both public (Community health worker and Mobile/Outreach clinic) and private (Mobile clinic) health facilities

^b Includes all public and private health facilities and providers

Table CH.10: Care-seeking for and antibiotic treatment of symptoms of acute respiratory infection (ARI)

Percentage of children age 0-59 months with symptoms of ARI in the last two weeks for whom advice or treatment was sought, by source of advice or treatment, and percentage of children with symptoms who were given antibiotics, Nigeria, 2016-17

Percentage of children with symptoms of ARI for whom treatment was sought from:	children with	Percentage of Number of symptoms of children age 0-59 months with	Percentage of children with symptoms of ARI Advice or for whom the source of antibiotics was:	Number of children with symptoms of
<u>Health facilities or providers</u>	A health No advice ARI in the last 59 months with		<u>Health facilities or providers</u>	

	Public	Private	Community facility or last health provider ^a	Other facility or source ^b	Community A health sought	Community A health antibiotics ²	Community A health two weeks	Other provider ¹	Other provider ¹ Public	Other provider ¹ Private	Other provider ¹ provider ^a	Other provider ¹ source	Other provider ¹ provider ^c	Other provider ¹ treatment were given antibiotics	ARI in the last two health
Total	19.4	15.1	3.3	6.3	23.7	15.9	22.2	833	41.6	48.9	18.6	9.5	90.5		185
Sex															
Male	18.6	17.9	4	6.2	24.6	15.2	21.7	454	39.7	52.0	19.6	8.3	91.7		99
Female	20.3	11.8	2	6.4	22.8	16.7	22.8	379	43.7	45.4	17.5	10.9	89.1		87
Residence															
Urban	14.0	20.2	1	3.2	19.8	12.8	21.7	259 (28.7)	(65.0)	(12.3)	(6.3)	(93.7)			56
Rural	21.8	12.8	4	7.7	25.5	17.3	22.4	574	47.2	41.9	21.3	10.9	89.1		129
Age (months)															
0-11	15.6	16.6	1	8.0	17.4	12.8	16.6	153	(*)	(*)	(*)	(*)	(*)	(*)	25
12-23	25.5	17.4	7	8.2	32.4	9.4	22.0	183 (30.4)	(57.0)	(21.0)	(12.5)	(87.5)			40
24-35	21.7	15.7	4	4.9	25.4	21.1	26.0	175 (43.4)	(53.5)	(18.8)	(3.1)	(96.9)			45
36-47	13.5	16.3	1	7.2	17.9	14.0	15.3	172 (46.4)	(40.6)	(3.8)	(13.0)	(87.0)			26
48-59	19.7	8.9	2	2.8	24.3	22.9	31.6	151 (40.3)	(51.0)	(29.5)	(8.7)	(91.3)			48
Mother's education															
None	18.6	12.4	4	6.0	21.5	21.2	17.5	246 (47.8)	(44.2)	(22.0)	(8.0)	(92.0)			43
Non-formal	28.0	14.2	3	7.8	29.3	19.5	30.1	217 (47.2)	(48.6)	(19.7)	(4.2)	(95.8)			65
Primary	14.2	16.0	6	6.8	21.4	15.0	23.6	146 (32.5)	(57.0)	(18.7)	(10.5)	(89.5)			34
Secondary	14.6	17.4	1	5.8	18.8	8.1	17.6	175 (38.3)	(36.3)	(18.4)	(25.4)	(74.6)			31
Higher	(*)	(*)	(*)	(*)	(*)	(*)	(*)	50	(*)	(*)	(*)	(*)	(*)	(*)	12
Wealth index quintile															
Poorest	19.4	13.7	3	8.7	22.6	21.5	21.5	221 (52.4)	(38.5)	(13.0)	(9.1)	(90.9)			47
Second	23.8	12.9	6	6.8	27.5	17.6	20.7	190 (40.9)	(46.5)	(13.3)	(12.6)	(87.4)			39
Middle	16.8	13.6	3	5.3	20.2	15.3	30.2	178 (43.7)	(50.3)	(34.7)	(5.9)	(94.1)			54
Fourth	18.0	13.2	2	7.1	21.5	12.9	15.7	127	(*)	(*)	(*)	(*)	(*)	(*)	20
Richest	17.6	26.0	1	1.4	27.5	6.7	21.1	117	(*)	(*)	(*)	(*)	(*)	(*)	25

¹ MICS indicator 3.13 - Care-seeking for children with acute respiratory infection (ARI) symptoms ² MICS indicator 3.14 - Antibiotic treatment for children with ARI symptoms

^a Community health providers includes both public (Community health worker and Mobile/Outreach clinic) and private (Mobile clinic) health facilities

^b Includes all public and private health facilities and providers, but excludes private pharmacy

^c Includes all public and private health facilities and providers

() Sample data are based on 25-49 unweighted cases

(*) Sample data are fewer than 25 unweighted cases

Table CH.10: Care-seeking for and antibiotic treatment of symptoms of acute respiratory infection (ARI) (continued)

Percentage of children age 0-59 months with symptoms of ARI in the last two weeks for whom advice or treatment was sought, by source of advice or treatment, and percentage of children with symptoms who were given antibiotics, Nigeria, 2016-17

	Percentage of children with symptoms of ARI for whom treatment was sought from:						Percentage of children with symptoms of ARI in the last two weeks		Percentage of children with symptoms of ARI Advice or treatment for whom the source of antibiotics was:						Number of children with symptoms of ARI in the last two weeks who were given antibiotics																
	Health facilities or providers		Community facility or other source ^a		No advice sought ^b		Public	Private	Health facilities or providers		Community facility or other provider ^a		Other provider ^c																		
Mother's education																															
None	18.6	12.4	4	6.0	21.5	21.2	17.5	246 (47.8)	(44.2)	(22.0)	(8.0)	(92.0)				43															
Non-formal	28.0	14.2	3	7.8	29.3	19.5	30.1	217 (47.2)	(48.6)	(19.7)	(4.2)	(95.8)	65	Primary	14.2	16.0	6	6.8	21.4	15.0	23.6	146 (32.5)	(57.0)	(18.7)	(10.5)	(89.5)	34	Secondary	14.6		
Higher	(*)	(*)	(*)	(*)	(*)	(*)	(*)	50	(*)	(*)	(*)	(*)	(*)																12		
Wealth index quintile																															
Poorest	19.4	13.7	3	8.7	22.6	21.5	21.5	221 (52.4)	(38.5)	(13.0)	(9.1)	(90.9)																	47		
Second	23.8	12.9	6	6.8	27.5	17.6	20.7	190 (40.9)	(46.5)	(13.3)	(12.6)	(87.4)	39	Middle	16.8	13.6	3	5.3	20.2	15.3	30.2	178 (43.7)	(50.3)	(34.7)	(5.9)	(94.1)	54	Fourth	18.0	13.2	2
Richest	17.6	26.0	1	1.4	27.5	6.7	21.1	117	(*)	(*)	(*)	(*)	(*)																25		

¹ MICS indicator 3.13 - Care-seeking for children with acute respiratory infection (ARI) symptoms ² MICS indicator 3.14 - Antibiotic treatment for children with ARI symptoms

^a Community health providers includes both public (Community health worker and Mobile/Outreach clinic) and private (Mobile clinic) health facilities

^b Includes all public and private health facilities and providers, but excludes private pharmacy

^c Includes all public and private health facilities and providers

() Sample data are based on 25-49 unweighted cases

(*) Sample data are fewer than 25 unweighted cases

Table CH.11: Knowledge of the two danger signs of pneumonia

Percentage of women age 15-49 years who are mothers or caretakers of children under age 5 by symptoms that would cause them to take a child under age 5 immediately to a health facility, and percentage of mothers who recognize fast or difficult breathing as signs for seeking care immediately, Nigeria, 2016-17

Percentage of mothers/caretakers of children age 0-59 months who think that a child should be taken immediately to a health facility if the child:	Mothers/caretakers who recognize at least one of the Number of women age
Is not able to drink or Becomes Develops a Has fast Has difficult Has blood Is drinking Has other pneumonia (fast and/or mothers/caretakers of breastfeed sicker fever breathing breathing in stool poorly symptoms difficult breathing) children under age 5	two danger signs of 15-49 years who are

Total	30	46.4	74.7	27.6	26.1	22.2	14	0.0		39.0	18,249																					
Geopolitical zone																																
North Central	32.8	46.5	75.5	26.8	30.6	27.8	17.6	0.0	44.3	3,050	North East	40.5	52.8	66.6	39.1	35.3	24.3	16.6	0.0	50.7	3,759											
North West	28.8	45.5	76.6	25.1	22.2	18.0	12.8	0.0				34.3									6,857											
South East	29.6	61.2	73.6	32.9	33.4	35.4	12.5	0.0				50.1									931											
South South	21.1	44.6	77.5	20.8	19.8	23.9	8.1	0.0				30.2									1,516											
South West	14.1	32.7	79.8	18.8	17.3	17.2	10.0	0.0				26.9									2,137											
Residence																																
Urban	26.5	46.9	76.7	29.7	27.7	25.2	13.9	0.0				40.6									5,569											
Rural	30.9	46.2	73.8	26.6	25.4	20.9	13.6	0.0				38.3									12,680											
Education																																
None	37.2	44.8	74.8	28.1	26.2	19.4	16.5	0.0	40.3	5,156	Non-formal	24.1	49.0	69.3	27.0	25.2	21.0	10.8	0.0	36.4	3,894	Primary	29.8	47.0	77.2	27.6	28.4	23.1	13.2	0.0	40.7	2,867
Secondary	26.9	46.3	76.5	27.9	25.4	24.1	12.3	0.0	39.2	4,870																						
Higher	25.6	44.7	77.5	26.4	25.8	27.5	16.5	0.0				36.9										1,463										
Wealth index quintile																																
Poorest	31.4	45.3	72.1	23.5	21.0	16.3	12.9	0.0	34.5	4,057	Second	32.1	45.9	74.1	26.8	24.1	19.7	13.7	0.0	37.9	3,965											
Middle	31.8	49.6	72.8	31.2	30.2	26.7	15.3	0.0				43.6										3,505										
Fourth	28.4	49.3	77.7	32.3	30.8	25.6	13.9	0.0				42.8										3,325										
Richest	23.2	42.3	77.4	24.9	25.7	24.4	12.6	0.0				37.1										3,397										
Ethnicity of household head																																
Hausa	31.9	47.3	73.3	29.0	27.1	20.7	14.4	0.0	39.6	9,865	Igbo	25.9	52.7	75.1	29.6	28.9	31.1	13.5	0.0	44.1	1,418	Yoruba	17.5	33.9	78.3	20.4	19.3	18.7	11.3	0.0	29.8	1,925
Other ethnic group	30.7	47.8	75.8	27.0	26.0	24.1	13.1	0.0				39.7										5,042										

Table CH.11: Knowledge of the two danger signs of pneumonia (continued)

Percentage of women age 15-49 years who are mothers or caretakers of children under age 5 by symptoms that would cause them to take a child under age 5 immediately to a health facility, and percentage of mothers who recognize fast or difficult breathing as signs for seeking care immediately, Nigeria, 2016-17

	Percentage of mothers/caretakers of children age 0-59 months who think that a child should be taken immediately to a health facility if the child:								Mothers/caretakers who recognize at least	
	one of the	two danger signs of	three danger signs of	four danger signs of	five danger signs of	six danger signs of	seven danger signs of	eight danger signs of	two danger signs of	15-49 years who are
	Is not able to drink or becomes develops a Has fast Has difficult Has blood Is drinking Has other pneumonia (fast and/or mothers/caretakers of breastfeed sicker fever breathing	breathing in stool poorly symptoms difficult breathing) children under age 5	breathing in stool poorly symptoms difficult breathing) children under age 5	breathing in stool poorly symptoms difficult breathing) children under age 5	breathing in stool poorly symptoms difficult breathing) children under age 5	breathing in stool poorly symptoms difficult breathing) children under age 5	breathing in stool poorly symptoms difficult breathing) children under age 5	breathing in stool poorly symptoms difficult breathing) children under age 5	breathing in stool poorly symptoms difficult breathing) children under age 5	breathing in stool poorly symptoms difficult breathing) children under age 5
Total	30	46.4	74.7	27.6	26.1	22.2	14	0.0	39.0	18,249
State										
Abia	19	68.3	83.0	29.5	30.1	22.6	17	0.0	38.1	143
Adamawa	42	60.2	64.9	26.8	22.6	26.0	16	0.0	35.7	418
Akwa Ibom	24	49.3	90.7	28.5	17.9	26.9	5	0.0	35.7	370
Anambra	24	60.4	74.0	19.5	21.5	30.8	7	0.0	36.8	226
Bauchi	67	47.8	62.9	27.1	24.5	10.0	24	0.0	45.1	993
Bayelsa	18	21.1	80.9	9.7	17.4	19.6	4	0.0	24.2	116
Benue	31	50.0	73.0	28.4	34.0	31.3	18	0.0	46.0	460
Borno	29	61.5	72.5	64.8	53.2	38.5	8	0.0	72.3	1,057
Cross River	7	47.7	87.0	10.5	17.2	21.7	5	0.0	24.6	282
Delta	26	46.4	71.9	10.8	9.1	16.5	9	0.0	18.2	272
Ebonyi	48	59.3	69.6	50.1	37.2	43.9	12	0.0	59.4	161
Edo	26	41.4	83.8	19.8	18.1	16.6	14	0.0	27.9	192
Ekiti	21	30.1	71.8	18.8	16.8	12.2	4	0.0	26.5	91
Enugu	36	63.2	69.4	48.9	53.9	44.6	18	0.0	73.7	168
Gombe	13	21.6	82.1	9.4	8.3	6.8	14	0.0	16.1	342
Imo	24	57.4	73.3	24.6	29.5	35.1	12	0.0	47.2	234
Jigawa	23	34.6	77.7	25.0	20.7	15.6	9	0.0	38.7	902
Kaduna	41	45.8	67.5	44.4	49.4	36.4	31	0.0	58.5	1,109
Kano	31	48.9	79.8	35.3	27.7	22.5	15	0.0	44.7	1,454
Katsina	28	43.1	78.3	10.4	9.4	5.9	6	0.0	18.4	1,296
Kebbi	39	51.2	85.4	26.6	19.4	15.1	16	0.0	32.3	599

Kogi	20	51.1	78.1	22.8	16.0	17.2	10	0.0	34.1	253
Kwara	30	48.8	62.0	32.9	41.8	25.6	20	0.0	62.2	247

Table CH.11: Knowledge of the two danger signs of pneumonia (continued)

Percentage of women age 15-49 years who are mothers or caretakers of children under age 5 by symptoms that would cause them to take a child under age 5 immediately to a health facility, and percentage of mothers who recognize fast or difficult breathing as signs for seeking care immediately, Nigeria, 2016-17

State	Percentage of mothers/caretakers of children age 0-59 months who think that a child should be taken immediately to a health facility if the child:							Mothers/caretakers who recognize at least one of the two danger signs of pneumonia (fast and/or difficult breathing)	Number of women age 15-49 years who are mothers/caretakers of children under age 5	
	Is not able to drink or breathing in stool	Becomes poorly	Develops symptoms	Has fast symptoms	Has difficult breathing	Has blood children	Is drinking under age 5			
Lagos	13	30.5	77.5	23.3	20.1	20.1	13	0.0	31.4	760
Nasarawa	50	56.9	87.6	37.8	38.9	38.2	31	0.0	45.8	395
Niger	32	33.4	63.9	22.0	31.4	19.0	15	0.0	46.7	859
Ogun	8	22.8	74.3	13.7	17.4	15.9	6	0.0	22.3	218
Ondo	20	43.5	68.1	25.2	19.7	19.0	15	0.0	37.3	268
Osun	32	47.4	84.9	28.5	27.9	26.2	21	0.0	35.8	250
Oyo	6	28.3	89.8	7.1	7.4	9.5	1	0.0	13.6	550
Plateau	33	54.6	89.5	27.4	24.9	34.0	15	0.0	38.6	687
Rivers	24	45.7	50.4	35.9	37.5	35.9	13	0.0	44.1	283
Sokoto	13	49.0	67.2	14.1	13.0	6.3	5	0.0	19.1	615
Taraba	34	47.8	57.6	31.4	35.7	18.4	20	0.0	49.6	280
Yobe	34	59.9	59.9	42.6	44.4	33.2	19	0.0	52.5	670
Zamfara	22	48.1	80.0	12.5	7.5	18.0	4	0.0	17.8	883
FCT Abuja	24	34.3	72.1	13.4	26.1	33.4	17	0.0	34.6	148

Solid Fuel Use

Table CH.12: Solid fuel use

Percent distribution of household members according to type of cooking fuel mainly used by the household, and percentage of household members living in households using solid fuels for cooking, Nigeria, 2016-17

	Percentage of household members in households mainly using													Total cooking ¹	Number of household members	
	Solid fuels											No food				
	Liquefied Petroleum Gas (LPG)	Natural Gas	Biogas	Kerosene	Coal/ Char- Lignite	Char- coal	Wood	Straw/ Shrubs/ Grass	Animal dung	Agricultural crop residue	Other	cooked in the fuel household	cooled in Solid fuels for household			
Total	1.3	4.0	1.2	12.7	0.4	6.0	69.2	2.3	0.1	2.6	0.1	0.2	100.0	80.6	182,165	
Geopolitical zone																
North Central	1.0	2.5	0.8	7.3	0.3	8.1	78.2	0.3	0.0	1.2	0.1	0.1	100.0	88.1	30,688	
North East	1.2	0.3	0.0	0.7	0.1	12.4	82.9	0.7	0.1	1.3	0.1	0.1	100.0	97.5	36,964	
North West	1.3	1.2	0.5	3.3	0.6	3.5	76.5	6.1	0.3	6.3	0.0	0.3	100.0	93.2	61,155	
South East	0.7	3.7	1.6	23.4	0.1	1.4	67.9	0.6	0.0	0.0	0.4	0.1	100.0	70.0	12,708	
South South	1.8	8.5	1.4	30.4	0.0	0.4	57.1	0.2	0.0	0.0	0.1	0.2	100.0	57.7	17,393	
South West	1.8	15.7	4.6	44.2	0.8	6.2	26.4	0.0	0.0	0.0	0.0	0.3	100.0	33.4	23,257	
Residence																
Urban	2.4	9.7	2.9	29.0	0.9	11.8	42.1	0.3	0.0	0.6	0.1	0.2	100.0	55.7	61,430	
Rural	0.7	1.0	0.3	4.4	0.1	3.0	83.0	3.3	0.2	3.6	0.1	0.2	100.0	93.3	120,735	
Education of household head																
None	0.6	0.3	0.1	4.3	0.3	3.8	83.9	2.5	0.3	3.6	0.1	0.2	100.0	94.4	39,653	
Non-formal	0.6	0.3	0.1	0.6	0.2	7.1	78.5	6.5	0.3	5.5	0.0	0.4	100.0	98.0	36,506	
Primary	1.2	1.6	0.5	13.6	0.4	5.1	74.0	1.3	0.1	2.0	0.1	0.1	100.0	82.8	34,678	

Secondary	1.9	4.8	1.4	24.7	0.5	6.7	57.9	0.8	0.0	0.9	0.1	0.2	100.0	66.8	43,819
Higher	2.3	16.1	4.5	20.6	0.5	7.6	47.4	0.1	0.0	0.5	0.1	0.2	100.0	56.3	27,166
Wealth index quintile															
Poorest	0.2	0.1	0.0	0.1	0.0	0.3	83.2	6.7	0.5	8.6	0.0	0.2	100.0	99.3	36,427
Second	0.3	0.1	0.1	0.1	0.1	0.9	92.1	2.9	0.1	3.1	0.0	0.2	100.0	99.2	36,454
Middle	0.7	0.1	0.0	3.0	0.2	6.2	87.1	1.5	0.0	0.8	0.1	0.3	100.0	95.8	36,404
Fourth	1.4	0.6	0.3	18.0	0.9	14.9	62.9	0.4	0.0	0.3	0.2	0.3	100.0	79.3	36,449
Richest	3.9	19.0	5.4	42.2	0.8	7.7	20.8	0.1	0.0	0.1	0.1	0.1	100.0	29.4	36,432
Ethnicity of household head															
Hausa	1.2	1.0	0.4	2.6	0.4	7.9	77.2	4.2	0.2	4.5	0.1	0.3	100.0	94.4	90,060
Igbo	1.1	7.4	2.4	29.5	0.3	2.3	56.0	0.5	0.0	0.1	0.3	0.1	100.0	59.2	18,007
Yoruba	1.9	14.0	4.1	41.9	0.9	9.9	26.9	0.1	0.0	0.0	0.0	0.3	100.0	37.8	21,721
Other ethnic group	1.3	3.7	0.7	12.1	0.1	2.3	77.6	0.6	0.1	1.2	0.1	0.1	100.0	82.0	52,376
<i>1 MICS indicator 3.15 - Use of solid fuels for cooking</i>															

Table CH.12: Solid fuel use (Continued)

Percent distribution of household members according to type of cooking fuel mainly used by the household, and percentage of household members living in households using solid fuels for cooking, Nigeria, 2016-17

food	Percentage of household members in households mainly using:												Solid fuels for cooking ¹	Number of household members		
	Electricity	Liquefied Petroleum Gas (LPG)	Natural Gas	Biogas	Kerosene	Coal/ Char-Lignite	Wood	Straw/ Shrubs/ Grass	Animal dung	Agricultural crop residue	Other fuel	cooked in the household			Total	
Total	1.3	4.0		1.2	12.7	0.4	6.0	69.2	2.3	0.1	2.6	0.1	0.2	100.0	80.6	182,165
State																
Abia	1.0	4.1		1.7	25.9	0.2	1.2	65.6	0.1	0.0	0.0	0.1	0.0	100.0	67.1	1,826
Adamawa	4.2	0.6		0.3	1.4	0.0	1.3	90.4	1.0	0.0	0.1	0.4	0.2	100.0	92.8	4,379
Akwa Ibom	1.6	3.7		1.0	21.4	0.1	0.2	71.8	0.3	0.0	0.0	0.0	0.0	100.0	72.3	3,893
Anambra	1.9	3.2		4.0	40.2	0.2	2.0	48.3	0.0	0.0	0.0	0.0	0.3	100.0	50.5	2,965
Bauchi	0.4	0.3		0.0	0.9	0.2	1.7	89.3	1.2	0.3	5.2	0.1	0.3	100.0	98.0	8,746
Bayelsa	3.8	7.4		0.3	40.4	0.0	0.3	47.7	0.0	0.0	0.0	0.0	0.1	100.0	48.1	1,279
Benue	0.5	0.4		0.2	2.2	0.2	3.5	92.4	0.3	0.0	0.0	0.2	0.1	100.0	96.4	5,012
Borno	0.4	0.0		0.0	0.0	0.2	37.0	62.4	0.0	0.0	0.0	0.0	0.0	100.0	99.6	11,063
Cross River	0.4	1.2		0.8	19.2	0.0	0.3	77.9	0.1	0.0	0.1	0.0	0.1	100.0	78.4	3,233
Delta	0.9	11.0		2.3	32.0	0.0	0.0	53.6	0.1	0.0	0.0	0.0	0.1	100.0	53.7	2,921
Ebonyi	0.2	0.8		0.0	6.7	0.0	1.8	87.0	3.3	0.0	0.0	0.0	0.1	100.0	92.1	2,248
Edo	2.0	13.1		3.3	43.3	0.2	1.0	36.4	0.4	0.0	0.0	0.0	0.1	100.0	38.0	2,339
Ekiti	0.7	8.6		2.5	29.3	0.8	5.8	51.9	0.0	0.0	0.0	0.1	0.3	100.0	58.5	1,128
Enugu	0.2	6.3		0.2	21.4	0.4	1.3	69.8	0.0	0.0	0.0	0.3	0.1	100.0	71.5	2,399

Gombe	2.9	0.3	0.0	0.6	0.0	1.7	91.0	2.6	0.2	0.5	0.0	0.2	100.0	95.9	3,291
Imo	0.0	4.0	1.6	19.8	0.0	0.7	72.5	0.0	0.0	0.0	1.3	0.0	100.0	73.2	3,270
Jigawa	0.2	0.2	0.0	0.7	0.0	0.8	82.9	6.4	0.3	8.3	0.0	0.1	100.0	98.7	8,019
Kaduna	2.0	2.3	1.0	7.2	0.4	6.4	80.0	0.4	0.0	0.1	0.0	0.1	100.0	87.3	10,418
Kano	1.7	2.1	1.2	4.8	1.5	8.0	69.7	8.7	0.1	1.8	0.0	0.4	100.0	89.7	13,560
Katsina	0.4	1.0	0.2	2.7	0.2	0.0	72.0	8.7	0.9	13.4	0.0	0.3	100.0	95.3	10,941
Kebbi	2.8	0.6	0.1	1.6	0.8	3.2	84.8	4.7	0.1	0.3	0.2	0.6	100.0	93.9	5,391
Kogi	2.6	0.8	1.2	12.2	0.6	3.0	67.0	0.3	0.0	11.4	0.3	0.4	100.0	82.3	3,152
Kwara	1.4	3.6	0.7	18.2	1.7	26.1	47.1	0.8	0.0	0.0	0.0	0.3	100.0	75.6	2,709

Table CH.12: Solid fuel use (Continued)

Percent distribution of household members according to type of cooking fuel mainly used by the household, and percentage of household members living in households using solid fuels for cooking, Nigeria, 2016-17

State	Percentage of household members in households mainly using:												Total	Solid fuels for cooking ¹	No food household members	
	Electricity	Liquefied Petroleum Gas (LPG)	Natural Gas	Biogas	Solid fuels							cooked in the household				
					Kerosene	Coal/ Char-Lignite	Wood	Straw/ Shrub/ Grass	Animal dung	Agricultural crop residue	Other fuel					
Lagos	2.6	26.2		5.2	62.5	0.3	1.3	1.7	0.0	0.0	0.0	0.0	0.3	100.0	3.3	7,576
Nasarawa	0.0	1.0		0.0	2.8	0.1	7.4	88.1	0.4	0.0	0.0	0.0	0.1	100.0	96.1	3,792
Niger	0.6	1.8		0.5	3.0	0.1	8.0	85.8	0.0	0.0	0.0	0.0	0.2	100.0	94.0	7,954
Ogun	0.3	18.5		5.3	45.9	0.0	2.0	27.7	0.0	0.0	0.0	0.0	0.2	100.0	29.7	2,317
Ondo	1.2	11.8		0.5	26.7	0.0	2.5	57.0	0.0	0.0	0.0	0.0	0.3	100.0	59.6	3,471
Osun	3.9	5.1		6.0	33.6	0.6	10.1	40.3	0.0	0.0	0.0	0.0	0.4	100.0	50.9	3,257
Oyo	0.6	10.3		5.6	38.7	2.5	14.9	27.1	0.0	0.0	0.0	0.0	0.3	100.0	44.5	5,508
Plateau	1.1	3.5		1.9	9.2	0.0	6.7	77.0	0.6	0.0	0.0	0.0	0.0	100.0	84.3	6,581
Rivers	3.0	15.3		0.9	36.8	0.0	0.6	42.5	0.0	0.0	0.0	0.4	0.5	100.0	43.1	3,729
Sokoto	0.6	0.3		0.3	0.6	0.4	2.5	74.0	14.4	1.2	5.4	0.0	0.4	100.0	97.9	5,164
Taraba	1.5	0.8		0.0	1.5	0.0	0.2	94.8	0.9	0.0	0.0	0.0	0.2	100.0	95.9	2,974
Yobe	0.8	0.2		0.0	0.6	0.0	3.7	94.3	0.0	0.1	0.0	0.2	0.0	100.0	98.1	6,511
Zamfara	1.2	0.6		0.2	2.2	0.4	0.1	79.0	0.3	0.0	15.3	0.1	0.5	100.0	95.2	7,663

FCT Abuja	2.6	14.7	0.8	20.8	0.4	9.7	51.0	0.1	0.0	0.0	0.0	0.0	100.0	61.1	1,489
<i>1 MICS indicator 3.15 - Use of solid fuels for cooking</i>															

Table CH.13: Solid fuel use by place of cooking

Percent distribution of household members in households using solid fuels by place of cooking, Nigeria, 2016-17

	Place of cooking:							Number of household members in households building cooking
	In the house			In a separate room used as			Total	
	In a separate room used as	Elsewhere in	In a separate	using solid fuels for kitchen	the house	Outdoors		
Total	37.7	24.0	12.1	26.1	0.2	100.0	146,816	
Geopolitical zone								
North Central	50.6	11.7	14.6	23.0	0.2	100.0	27,049	
North East	51.1	26.6	3.9	18.3	0.2	100.0	36,046	
North West	30.7	33.5	6.1	29.6	0.1	100.0	57,013	
South East	25.5	15.7	33.2	25.4	0.3	100.0	8,901	
South South	22.2	6.3	42.2	28.9	0.4	100.0	10,029	
South West	16.4	17.4	21.8	44.1	0.3	100.0	7,777	
Residence								
Urban	49.0	19.3	9.6	22.0	0.1	100.0	34,218	
Rural	34.3	25.4	12.8	27.3	0.2	100.0	112,598	
Education of household head								
None	33.8	27.7	10.5	27.8	0.2	100.0	37,437	
Non-formal	29.9	36.8	4.8	28.4	0.1	100.0	35,778	
Primary	36.5	17.8	18.2	27.4	0.1	100.0	28,725	
Secondary	43.5	16.3	15.8	24.2	0.2	100.0	29,281	
Higher	57.1	11.1	14.3	17.5	0.0	100.0	15,286	
Wealth index quintile								
Poorest	24.0	38.9	5.5	31.4	0.2	100.0	36,154	
Second	35.2	26.1	8.6	30.0	0.2	100.0	36,167	
Middle	41.0	19.2	14.7	24.9	0.2	100.0	34,881	
Fourth	46.9	13.9	19.1	20.1	0.1	100.0	28,914	
Richest	57.6	9.8	18.0	14.7	0.0	100.0	10,699	
Ethnicity of household head								
Hausa	36.8	32.2	5.0	25.8	0.1	100.0	85,029	
Igbo	26.7	14.8	31.9	26.4	0.2	100.0	10,654	
Yoruba	22.8	17.8	19.0	40.1	0.3	100.0	8,208	
Other ethnic group	45.1	11.1	19.7	23.8	0.2	100.0	42,924	

Table CH.13: Solid fuel use by place of cooking (continued)

Percent distribution of household members in households using solid fuels by place of cooking, Nigeria, 2016-17

	Place of cook					Total	Number of household members in households using solid fuels for cooking
	In the household		In a separate house building	Outdoors	Other place		
	In a separate room used as kitchen	Elsewhere in house building					
Total	37.7	24.0	12.1	26.1	0.2	100.0	146,816
State							
Abia	7.7	7.5	57.9	26.6	0.3	100.0	1,226
Adamawa	55.7	19.3	6.7	18.2	0.0	100.0	4,063
Akwa Ibom	21.2	9.2	54.7	14.9	0.0	100.0	2,815
Anambra	28.8	12.6	32.0	26.5	0.0	100.0	1,496
Bauchi	50.8	31.1	2.4	15.7	0.0	100.0	8,568
Bayelsa	13.9	14.6	49.6	21.7	0.2	100.0	614
Benue	69.0	0.6	18.7	11.3	0.4	100.0	4,833
Borno	65.3	22.9	0.4	11.4	0.0	100.0	11,017
Cross River	8.1	0.9	32.1	57.3	1.6	100.0	2,534
Delta	28.0	3.8	48.7	19.5	0.0	100.0	1,568
Ebonyi	22.7	17.2	12.6	47.3	0.3	100.0	2,071
Edo	18.8	15.6	23.3	42.3	0.0	100.0	889
Ekiti	26.0	15.4	16.3	41.2	1.1	100.0	661
Enugu	21.7	10.8	43.6	23.4	0.5	100.0	1,715
Gombe	52.0	16.0	6.7	24.7	0.5	100.0	3,157
Imo	37.6	24.0	31.6	6.6	0.3	100.0	2,394
Jigawa	16.4	37.1	11.5	34.7	0.3	100.0	7,917
Kaduna	48.6	20.4	8.1	22.9	0.0	100.0	9,094
Kano	31.2	33.7	3.8	31.2	0.0	100.0	12,166
Katsina	36.5	39.8	3.2	20.5	0.0	100.0	10,425
Kebbi	15.5	50.9	9.4	24.1	0.0	100.0	5,064
Kogi	23.8	5.9	26.5	43.5	0.3	100.0	2,594
Kwara	36.1	13.6	8.1	42.1	0.1	100.0	2,049
Lagos	15.0	0.6	7.9	76.5	0.0	100.0	249
Nasarawa	68.5	9.0	1.4	20.9	0.2	100.0	3,643
Niger	39.7	29.9	11.4	19.0	0.0	100.0	7,476

Ogun	8.0	7.5	12.7	71.8	0.0	100.0	689
Ondo	14.0	11.9	43.4	30.8	0.0	100.0	2,067
Osun	28.0	15.0	14.1	42.7	0.1	100.0	1,659
Oyo	10.5	28.9	14.1	46.1	0.4	100.0	2,452
Plateau	58.5	2.3	19.7	19.5	0.0	100.0	5,546
Rivers	45.6	3.8	37.6	13.0	0.0	100.0	1,608
Sokoto	17.0	33.7	5.3	44.0	0.0	100.0	5,054
Taraba	47.3	32.9	10.0	9.8	0.0	100.0	2,854
Yobe	25.1	33.9	6.0	34.2	0.7	100.0	6,387

Zamfara	35.1	24.1	4.1	36.6	0.1	100.0	7,293
FCT Abuja	30.7	2.1	21.4	45.6	0.2	100.0	910

Malaria/Fever

Table CH.14: Household availability of insecticide treated nets and protection by a vector control method

Percentage of households with at least one mosquito net, one insecticide treated net (ITN), and one long-lasting treated net, percentage of households with at least one mosquito net, one insecticide treated net (ITN) per two people, and one long-lasting treated net, percentage of households with at least one ITN and/or indoor residual spraying (IRS) in the last 12 months, and percentage of households with at least one ITN per two people and/or with indoor residual spraying (IRS) in the last 12 months, Nigeria, 2016-17

	Percentage of households with at least one mosquito net:			Percentage of households with at least one net for every two persons ^a :			
	Any mosquito (ITN) ² (LLIN) households	Insecticide treated mosquito net (ITN) ² (LLIN) households	Long-lasting insecticidal net mosquito (ITN) ² (LLIN) households	Any mosquito net	Insecticide treated net	Long-lasting insecticidal net (ITN) ¹ (LLIN) net	
Total	64.9	63.3	61.8	31.7	30.7	30.0	33,901
Geopolitical zone							
North Central	63.6	62.6	61.7	30.4	29.8	29.4	5,435
North East	79.4	78.0	75.7	34.7	33.9	32.9	5,581
North West	79.3	76.9	74.9	35.2	33.4	32.6	9,128
South East	53.3	51.7	50.8	32.0	31.1	30.6	3,132
South South	50.0	48.3	47.3	27.4	26.4	26.0	4,281
South West	48.4	47.4	46.3	28.1	27.4	26.6	6,344
Residence							
Urban	56.5	55.3	53.9	26.6	25.8	25.1	12,421
Rural	69.8	68.0	66.4	34.7	33.5	32.8	21,480
Education of household head							
None	64.1	62.3	60.4	33.4	32.2	31.2	7,443
Non-formal	79.3	77.0	75.4	33.6	32.2	31.7	5,269
Primary	62.0	60.5	59.2	31.2	30.2	29.7	6,558
Secondary	59.8	58.4	57.1	28.1	27.3	26.7	9,047
Higher	64.0	63.0	61.5	34.2	33.4	32.6	5,526
Missing/Don't know	75.9	70.5	64.5	29.6	28.7	23.9	58

Wealth index quintile							
Poorest	76.8	74.9	72.9	35.1	33.7	32.9	5,592
Second	73.3	71.5	69.7	36.6	35.4	34.6	6,328
Middle	66.6	64.7	63.4	33.2	32.1	31.6	6,897
Fourth	58.9	57.7	56.5	29.2	28.3	27.6	7,259
Richest	53.7	52.5	51.2	26.5	25.7	25.0	7,825
Ethnicity of household head							
Hausa	79.0	77.0	75.0	34.3	33.0	32.2	13,433
Igbo	51.7	50.1	49.1	30.0	28.9	28.3	4,436
Yoruba	47.2	46.1	45.0	26.7	26.1	25.4	5,873
Other ethnic group	62.3	60.9	59.7	31.9	31.0	30.5	10,159

¹ MICS indicator 3.16a - Household availability of insecticide-treated nets (ITNs) - One+ ²
MICS indicator 3.16b - Household availability of insecticide-treated nets (ITNs) - One+ per 2 people ³
MICS indicator 3.17a - Households covered by vector control - One+ ITNs ⁴
MICS indicator 3.17b - Households covered by vector control - One+ ITNs per 2 people

^a The numerators are based on number of usual (de jure) household members and does not take into account whether household members stayed in the household last night. MICS does not collect information on visitors to the household

Table CH.15: Access to an insecticide treated net (ITN) - number of household members

Percentage of household population with access to an ITN in the household, Nigeria, 2016-17

	Number of ITNs owned by household:										Total	Percentage with access to an ITN ^a	Number of household members ^b
	0	1	2	3	4	5	6	7	8 or more				
Total	36.7	17.5	22.2	11.0	7.0	2.6	1.6	0.6	0.8	100.0	49.5	182,165	
Number of household members													
1	60.1	29.9	7.4	1.4	0.8	0.2	0.0	0.0	0.0	100.0	39.9	3,634	
2	46.5	27.3	20.9	3.4	1.5	0.3	0.1	0.0	0.0	100.0	53.5	6,440	
3	38.6	26.0	24.5	7.3	3.0	0.4	0.2	0.0	0.1	100.0	52.8	12,733	
4	34.9	20.1	31.3	9.1	3.4	0.8	0.3	0.1	0.1	100.0	55.1	18,482	
5	35.2	14.8	28.3	13.6	5.3	1.9	0.5	0.1	0.3	100.0	50.3	21,640	
6	33.3	13.2	25.9	15.7	7.7	2.7	0.8	0.2	0.3	100.0	49.3	22,895	
7	30.2	9.8	24.4	18.1	11.3	3.3	1.8	0.7	0.4	100.0	49.7	20,524	
8 or more	25.7	7.2	16.6	15.6	16.1	7.4	5.8	2.1	3.4	100.0	47.5	75,817	

^a Percentage of household population who could sleep under an ITN if each ITN in the household were used by up to two people
^b The denominator is number of usual (de jure) household members and does not take into account whether household members stayed in the household last night. MICS does not collect information on visitors to the household

Table CH.16: Access to an insecticide treated net (ITN) - background characteristics

Percentage of household population with access to an ITN in the household, Nigeria, 2016-17			
		Percentage with access to an ITN ^a	Number of household members ^b
Total		49.5	182,165
Geopolitical zone			
North Central	47.1 30,688	North East 56.5 36,964	
North West			61,155
South East	40.1 12,708	South South 39.1 17,393	
South West			23,257
Residence			
Urban			61,430
Rural			120,735
Wealth index quintile			
Poorest	54.8 36,427	Second 55.1 36,454	
Middle			36,404
Fourth			36,449
Richest			36,432
Ethnicity of household head			
Hausa	55.5 90,060	Igbo 38.3 18,007	Yoruba 37.8 21,721
Other ethnic group			52,376

^a Percentage of household population who could sleep under an ITN if each ITN in the household were used by up to two people

^b The denominator is number of usual (de jure) household members and does not take into account whether household members stayed in the household last night. MICS does not collect information on visitors to the household

Table CH.16: Access to an insecticide treated net (ITN) - background characteristics (continued)

Percentage of household population with access to an ITN in the household, Nigeria, 2016-17			
		Percentage with access to an ITN ^a	Number of household members ^b

Total	49.5	182,165
State		
Abia	46.1	1,826
Adamawa	46.0	4,379
Akwa Ibom	46.8	3,893
Anambra	37.7	2,965
Bauchi	65.6	8,746
Bayelsa	37.9	1,279
Benue	72.7	5,012
Borno	57.0	11,063
Cross River	63.8	3,233
Delta	31.7	2,921
Ebonyi	63.5	2,248
Edo	20.3	2,339
Ekiti	43.7	1,128
Enugu	23.9	2,399
Gombe	60.8	3,291
Imo	34.8	3,270
Jigawa	64.2	8,019
Kaduna	38.8	10,418
Kano	57.2	13,560
Katsina	59.8	10,941
Kebbi	52.5	5,391
Kogi	31.7	3,152
Kwara	15.1	2,709
Lagos	29.0	7,576
Nasarawa	51.2	3,792
Niger	49.8	7,954
Ogun	31.8	2,317
Ondo	38.1	3,471
Osun	35.3	3,257
Oyo	56.0	5,508
Plateau	48.4	6,581
Rivers	27.8	3,729
Sokoto	43.9	5,164
Taraba	34.3	2,974
Yobe	58.6	6,511
Zamfara	70.4	7,663
FCT Abuja	20.8	1,489

^a Percentage of household population who could sleep under an ITN if each ITN in the household were used by up to two people

^b The denominator is number of usual (de jure) household members and does not take into account whether household members stayed in the household last night. MICS does not collect information on visitors to the household

Table CH.17: Use of ITNs

Percentage of insecticide treated nets (ITNs) that were used by anyone last night, Nigeria, 2016-17

	Percentage of ITNs used last night	Number of ITNs
Total	69.1	53,193
Geopolitical zone		
North Central	69.8	8,494
North East	79.8	11,682
North West	78.1	19,116
South East	48.2	3,509
South South	55.9	4,390
South West	40.2	6,002
Residence		
Urban	63.1	15,751
Rural	71.6	37,442
Wealth index quintile		
Poorest	78.3	11,376
Second	76.0	11,619
Middle	69.6	10,935
Fourth	63.2	10,180
Richest	54.4	9,083
Ethnicity of household head		
Hausa	78.8	28,023
Igbo	48.5	4,612
Yoruba	41.5	5,451
Other ethnic group	67.2	15,107

Table CH.17: Use of ITNs (continued)

Percentage of insecticide treated nets (ITNs) that were used by anyone last night, Nigeria, 2016-17

	Percentage of ITNs used last night	Number of ITNs
Total	69.1	53,193

State		
Abia	34.7	612
Adamawa	79.9	1,141
Akwa Ibom	47.6	1,178
Anambra	49.6	756
Bauchi	74.1	3,277
Bayelsa	65.4	307
Benue	70.8	2,288
Borno	84.1	3,421
Cross River	60.6	1,411
Delta	57.6	565
Ebonyi	62.1	1,032
Edo	50.3	274
Ekiti	31.6	367
Enugu	59.4	345
Gombe	83.4	1,200
Imo	33.6	764
Jigawa	85.1	3,013
Kaduna	74.0	2,271
Kano	82.7	4,253
Katsina	73.8	3,651
Kebbi	65.1	1,581
Kogi	69.9	592
Kwara	53.9	220
Lagos	39.1	1,256
Nasarawa	72.9	1,140
Niger	61.6	2,213
Ogun	58.4	442
Ondo	55.8	835
Osun	41.6	747
Oyo	32.7	2,356
Plateau	78.9	1,874
Rivers	57.2	654
Sokoto	69.3	1,277
Taraba	62.6	579
Yobe	84.3	2,065
Zamfara	83.4	3,071
FCT Abuja	62.2	166

Table CH.18: Children sleeping under mosquito nets

Percentage of children age 0-59 months who slept under a mosquito net last night, by type of net, Nigeria, 2016-17

Percentage of children under age five who the previous night Number of									
Percentage of _____ slept under: children age 0- Percentage of children age 0- Number A Long- 59 months who children who 59 who spent of An lasting spent last night slept under an Number of children last night in the children Any insecticide insecticidal in the ITN last night in age 0-59 living in interviewed age 0-59 mosquito treated net treated net interviewed households with households with at households months net (ITN) ¹ (LLIN) households at least one ITN least one ITN									
Total		99.1	28,085	50.4	49.1	48.0	27,842	67.1	20,359
Geopolitical zone									
North Central		99.3	4,616	46.1	45.5	44.8	4,583	67.2	3,102
North East	99.1 6,041 59.1 58.0 56.0 5,986 71.0 4,887								
North West	99.2 10,635 59.5 57.6 56.4 10,548 71.4 8,508								
South East	99.3 1,550 29.7 29.3 28.8 1,540 52.0 867								
South South	99.1 2,273 35.7 34.5 34.2 2,253 59.6 1,305								
South West		98.8	2,968	28.2	27.6	27.0	2,934	47.9	1,691
Sex									
Male		99.3	14,213	49.6	48.3	47.4	14,107	67.1	10,158
Female		99.0	13,872	51.1	49.9	48.5	13,735	67.2	10,202
Residence									
Urban		98.8	8,553	43.7	42.9	42.1	8,450	62.9	5,766
Rural		99.3	19,532	53.2	51.8	50.5	19,392	68.8	14,593
Age (months)									
0-11	99.4 5,363 53.8 52.3 50.9 5,329 70.9 3,933								
12-23	99.2 5,535 52.2 50.9 49.7 5,491 69.1 4,048								
24-35		99.1	5,514	51.7	50.4	49.4	5,465	68.3	4,033
36-47		99.0	5,818	47.9	46.8	45.8	5,761	65.5	4,112
48-59		99.0	5,856	46.6	45.5	44.3	5,797	62.3	4,232
Mother's education									
None	99.2 8,134 51.4 50.3 48.5 8,071 66.8 6,077								
Non-formal	99.2 6,196 59.6 57.5 56.5 6,148 71.3 4,952								
Primary	99.0 4,330 49.9 48.9 48.0 4,285 68.9 3,040								
Secondary	99.2 7,245 43.3 42.3 41.4 7,184 63.1 4,818								
Higher	98.9 2,178 44.7 43.8 43.1 2,153 64.1 1,472								
Missing/Don't know		100.0	2	33.8	33.8	33.8	2	100.0	1
Wealth index quintile									
Poorest	99.3 6,369 54.8 53.2 51.9 6,322 68.1 4,938								
Second	98.9 6,018 58.7 57.4 55.5 5,953 73.3 4,668								
Middle		99.2	5,549	52.9	51.3	50.4	5,504	69.1	4,089
Fourth		99.3	5,156	42.9	42.3	41.6	5,121	61.2	3,540
Richest		99.0	4,993	39.4	38.4	37.8	4,942	60.7	3,124
Ethnicity of household head									
Hausa	99.2 15,592 58.4 56.9 55.5 15,470 70.8 12,431								
Igbo	99.3 2,310 30.3 29.6 28.7 2,295 52.8 1,286								
Yoruba	98.8 2,640 27.2 26.5 25.9 2,609 47.6 1,455								
Other ethnic group		99.0	7,543	47.9	46.9	46.0	7,468	67.5	5,188
<i>1 MICS indicator 3.18; MDG indicator 6.7 - Children under age 5 sleeping under insecticide-treated nets (ITNs)</i>									

Table CH.18: Children sleeping under mosquito nets (continued)

Percentage of children age 0-59 months who slept under a mosquito net last night, by type of net, Nigeria, 2016-17

State	Percentage of children under age five who slept under a mosquito net last night		Percentage of children under age five who slept under an insecticide-treated net (ITN) last night		Percentage of children under age five who slept under a mosquito net last night		Percentage of children under age five who slept under an insecticide-treated net (ITN) last night		Number of children interviewed																																																																																									
	Percentage of children under age five who slept under a mosquito net last night	Number of children interviewed	Percentage of children under age five who slept under an insecticide-treated net (ITN) last night	Number of children interviewed	Percentage of children under age five who slept under a mosquito net last night	Number of children interviewed	Percentage of children under age five who slept under an insecticide-treated net (ITN) last night	Number of children interviewed																																																																																										
Total	99.1	28,085	50.4	49.1	48.0	27,842	67.1	20,359																																																																																										
Abia	99.6	224	23.8	22.2	22.3	39.8	128	Adamawa	99.1	624	49.1	48.0	46.9	618	64.9	457	Akwai Ibom	98.8	600	32.6	32.3	32.3	593	48.4	396																																																																									
Anambra	98.7	383	27.9	27.2	26.4	378	51.2	201	Bauchi	99.7	1,524	58.8	57.9	54.9	1,520	67.3	1,307	Bayelsa	98.3	177	39.3	38.6	38.3	174	65.4	103	Benue	99.2	697	73.7	73.8	72.1	692	84.3	606	Borno	98.8	1,851	64.2	63.3	61.6	1,829	76.8	1,506	Cross River	99.2	393	58.4	58.7	58.6	390	75.5	303	Delta	99.2	409	29.4	26.9	26.3	406	54.0	202	Ebonyi	99.3	271	57.1	57.1	56.9	269	72.9	210	Edo	99.4	281	22.6	21.0	20.8	280	52.6	111	Ekiti	98.8	125	21.1	20.8	20.6	123	37.8	68									
Enugu			99.4		268		27.2		26.7		26.5		266		57.7						123																																																																													
Gombe			99.5		534		65.3		61.8		58.4		532		74.7						440																																																																													
Imo	99.7	405	18.1	17.9	17.4	404	35.3	204	Jigawa	99.3	1,399	76.2	74.4	74.2	1,389	85.6	1,208	Kaduna	99.4	1,607	45.0	44.4	43.9	1,597	73.6	963	Kano	99.4	2,325	62.0	61.8	61.5	2,310	73.9	1,931	Katsina	99.3	2,066	59.2	58.6	57.6	2,051	65.7	1,829	Kebbi	98.9	935	50.7	44.5	39.7	925	56.9	724	Kogi	98.6	372	32.0	29.3	28.4	367	55.1	195	Kwara	99.9	358	12.7	12.7	12.7	358	43.6	104	Lagos	98.8	1,054	25.2	24.3	23.9	1,041	47.2	536	Nasarawa	99.7	607	53.7	53.3	52.7	605	74.3	434	Niger	98.8	1,270	38.6	37.3	36.7	1,254	50.2	932
Ogun			99.5		295		27.4		27.4		27.4		294		56.8						142																																																																													
Ondo			99.7		408		32.8		31.9		31.0		407		56.2						230																																																																													
Osun	96.8	342	22.6	22.6	22.6	331	42.0	178	Oyo	99.1	745	33.9	33.4	32.2	738	45.9	536	Plateau	99.6	1,103	52.1	52.0	51.5	1,098	77.5	737	Rivers	99.5	412	32.3	29.8	29.0	410	64.4	190																																																															
Sokoto			99.6		975		49.0		40.3		35.5		972		61.1						641																																																																													
Taraba	99.1	422	31.1	29.5	26.8	418	53.4	231	Yobe	98.5	1,085	64.4	64.1	63.1	1,069	72.5	945	Zamfara	98.1	1,328	69.9	69.3	69.1	1,303	74.4	1,213	FCT Abuja	99.7	209	28.5	28.0	27.8	209	63.0	93																																																															

¹ *MICS indicator 3.18; MDG indicator 6.7 - Children under age 5 sleeping under insecticide-treated nets (ITNs)*

Table CH.19: Use of mosquito nets by the household population

Percentage of household members who slept under a mosquito net last night, by type of net, Nigeria, 2016-17

Percentage of household members previous night slept under:		Number of household members who Percentage of household members who	
the	the	the	the
Any household mosquito treated net	An insecticide mosquito treated net	A Long-lasting insecticidal net (LLIN)	Number of household members in
households	households	households	with at least one ITN
		interviewed	
		night in the	
		night slept	
		ITN	

Total	42.0	40.9	40.0	176,410	59.5	120,885
Geopolitical zone						
North Central	39.4	38.8	38.3	29,784	59.8	19,283
North East	53.1	52.0	50.4	36,032	65.2	28,561
North West	51.8	50.1	48.9	59,198	64.1	46,184
South East	24.9	24.4	24.1	12,371	46.2	6,543
South South	28.7	27.9	27.5	16,845	52.6	8,912
South West	20.7	20.4	20.0	22,181	39.6	11,401
Sex						
Male	39.8	38.8	38.0	86,778	56.9	59,070
Female	44.1	42.9	41.9	89,632	62.1	61,815
Residence						
Urban	34.2	33.6	32.8	59,105	53.8	36,795
Rural	45.9	44.6	43.6	117,305	62.1	84,089
Age (Years)						
0-4 ^a	50.5	49.2	48.1	30,757	67.4	22,416
5-14	39.3	38.2	37.5	53,420	54.3	37,580
15-34	40.1	39.2	38.3	48,303	58.3	32,344
35-49	42.8	41.8	40.8	21,929	61.7	14,810
50+	39.9	38.8	38.0	21,677	61.8	13,569
Missing/Don't know	31.2	30.2	29.0	324	57.6	167
Education of household head						
None	40.9	39.6	38.5	38,668	59.0	25,901
Non-formal	51.1	49.7	48.7	35,496	63.7	27,636
Primary	38.9	37.7	36.8	33,648	57.4	22,108
Secondary	38.2	37.4	36.7	42,249	58.4	26,962
Higher	41.2	40.6	39.8	26,023	58.4	18,039
Missing/DK	48.3	47.4	45.8	327	62.5	239
Wealth index quintile						
Poorest	50.2	48.8	47.6	35,587	64.1	27,051
Second	50.9	49.4	48.1	35,297	65.5	26,578
Middle	44.1	42.8	42.1	35,289	60.9	24,721
Fourth	36.1	35.6	34.9	35,264	55.4	22,568
Richest	28.3	27.6	27.1	34,973	48.4	19,967
Ethnicity of household head						
Hausa	51.8	50.4	49.1	87,555	64.3	68,471
Igbo	24.1	23.5	23.0	17,490	45.4	9,043
Yoruba	20.3	20.0	19.6	20,744	39.7	10,433
Other ethnic group	40.0	39.1	38.4	50,621	59.9	32,938
¹ MICS indicator 3.19 - Population that slept under an ITN						
^a The results of the age group 0-4 years do not match those in Table CH.18, which is based on completed under-5 interviews only. The two						

tables are computed with different sample weights

Table CH.19: Use of mosquito nets by the household population (continued)

Percentage of household members who slept under a mosquito net last night, by type of net, Nigeria, 2016-17

Percentage of household members who the previous night slept under:						
Any mosquito net	An insecticide treated net	A Long-lasting insecticidal net (LLIN)	members who spent the previous night in the interviewed households	who the previous night slept under an ITN	Number of household members in at least one ITN	Percentage

Total	42.0	40.9	40.0	176,410	59.5	120,885
State						
Abia	22.1	20.6	20.2	1,785	35.0	1,051
Adamawa	38.7	37.8	37.0	4,265	54.8	2,942
Akwa Ibom	29.6	29.1	29.1	3,769	45.9	2,392
Anambra	24.4	24.1	23.6	2,880	47.0	1,476
Bauchi	55.0	54.1	51.6	8,641	63.0	7,423
Bayelsa	31.6	31.1	30.9	1,209	57.9	648
Benue	66.9	66.4	65.1	4,760	77.1	4,100
Borno	59.6	58.0	56.9	10,795	71.5	8,702
Cross River	50.6	50.5	50.5	3,098	66.4	2,357
Delta	24.9	23.2	22.6	2,830	50.2	1,304
Ebonyi	51.6	51.5	51.3	2,185	66.8	1,686
Edo	12.7	12.2	12.0	2,290	39.5	708
Ekiti	19.2	18.0	17.5	1,061	34.4	554
Enugu	17.4	16.8	16.8	2,312	46.3	839
Gombe	59.4	56.9	54.4	3,238	69.8	2,600
Imo	14.1	13.9	13.6	3,208	29.9	1,492
Jigawa	69.1	67.0	66.7	7,791	79.5	6,567
Kaduna	34.3	33.8	32.9	10,048	61.6	5,516
Kano	55.2	54.8	54.5	13,172	67.1	10,751
Katsina	50.0	49.6	48.6	10,739	56.2	9,477
Kebbi	44.2	39.0	35.0	5,175	50.3	4,012
Kogi	28.2	25.5	25.3	3,043	54.2	1,431
Kwara	8.6	8.6	8.6	2,665	34.6	666
Lagos	15.2	14.8	14.5	7,314	34.5	3,138
Nasarawa	47.3	47.1	46.6	3,694	65.5	2,641
Niger	32.6	32.0	31.7	7,678	44.0	5,574
Ogun	22.4	22.2	22.2	2,209	48.5	1,013
Ondo	23.6	23.3	23.1	3,404	46.6	1,696
Osun	18.0	18.0	18.0	2,966	35.7	1,490
Oyo	27.6	27.3	26.4	5,226	40.5	3,511
Plateau	45.7	45.6	45.2	6,498	68.2	4,343
Rivers	21.1	19.7	18.5	3,649	47.7	1,504
Sokoto	44.0	36.2	31.4	4,914	55.5	3,149
Taraba	25.9	24.7	23.3	2,797	46.4	1,488
Yobe	58.1	57.7	56.6	6,295	66.5	5,407
Zamfara	64.5	63.7	63.5	7,359	69.8	6,711
FCT Abuja	16.6	16.1	15.8	1,445	44.0	529
¹ MICS indicator 3.19 - Population that slept under an ITN						
^a The results of the age group 0-4 years do not match those in Table CH.18, which is based on completed under-5 interviews only. The two tables are computed with different sample weights						

Table CH.20: Care-seeking during fever

Percentage of children age 0-59 months with fever in the last two weeks for whom advice or treatment was sought, by source of advice or treatment, Nigeria, 2016-17

	Percentage of children for whom:							
	Advice or treatment was sought from:							
	Health facilities or providers					No advice or treatment sought	Number of children with fever in last two weeks	
	Public	Private	Community health provider ^a	Other source	A health facility or provider ^{1, b}			
Total	25.0	28.6	4.3	16.1	63.4	32.4	7,124	
Geopolitical zone								
North Central	22.4	40.3	1.9	19.5	71.8	22.0	824	
North East	24.1	35.1	4.8	7.5	61.7	35.2	1,804	
North West	29.3	18.8	5.8	19.9	62.6	33.5	3,218	
South East	17.3	37.1	2.5	17.1	65.4	31.6	325	
South South	16.4	40.3	0.8	19.1	67.2	26.6	510	
South West	17.2	32.0	1.4	12.9	55.3	39.6	442	
Sex								
Male	24.7	28.4	4.5	15.9	62.7	33.0	3,690	
Female	25.3	28.7	4.2	16.3	64.2	31.8	3,434	
Residence								
Urban	26.6	35.5	3.2	9.8	66.8	29.9	1,852	
Rural	24.4	26.2	4.7	18.3	62.3	33.3	5,271	
Age (months)								
0-11	24.8	27.6	3.4	17.0	62.5	32.6	1,102	
12-23	26.3	25.0	4.9	16.1	62.3	34.2	1,524	
24-35	26.7	31.0	3.5	14.8	66.9	29.4	1,543	
36-47	23.1	28.9	4.8	16.1	61.7	34.2	1,507	
48-59	23.8	30.1	4.9	16.8	63.4	31.8	1,447	
Mother's education								
None	22.4	22.9	3.9	17.9	56.9	38.7	2,077	
Non-formal	25.5	27.9	6.2	16.3	64.7	31.5	2,108	
Primary	23.3	28.0	4.0	17.0	61.0	34.2	1,016	
Secondary	26.6	35.3	3.2	14.6	69.0	26.8	1,568	
Higher	34.5	38.3	1.9	8.4	76.5	20.9	353	
Missing/Don't know	100.0	0.0	0.0	0.0	100.0	0.0	1	
Wealth index quintile								
Poorest	23.1	19.2	5.4	18.4	54.2	41.1	1,817	
Second	24.8	22.0	4.9	19.2	60.1	35.6	1,696	
Middle	22.7	34.3	3.8	17.3	67.1	28.0	1,478	
Fourth	26.6	38.5	3.5	12.5	71.6	24.9	1,243	
Richest	30.7	36.9	3.1	8.3	71.1	26.4	889	
Ethnicity of household head								
Hausa	27.1	24.6	5.7	16.3	62.8	33.7	4,698	
Igbo	21.1	36.3	1.8	15.1	67.6	29.8	457	
Yoruba	17.3	29.8	1.0	18.1	56.4	37.0	399	
Other ethnic group	21.8	37.9	1.9	15.2	66.0	28.3	1,571	
¹ MICS indicator 3.20 - Care-seeking for fever								
^a Community health providers include both public (Community health worker and Mobile/Outreach clinic) and private (Mobile clinic) health facilities								
^b Includes all public and private health facilities and providers as well as shops								

Table CH.20: Care-seeking during fever (continued)

Percentage of children age 0-59 months with fever in the last two weeks for whom advice or treatment was sought, by source of advice or treatment, Nigeria, 2016-17

	Percentage of children for whom:							Number of children health with fever in last two weeks
	Advice or treatment was sought from:							
	Health facilities or providers							
	Public	Private	Community provider ^a	A health source	No advice or provider ^{1, b}	facility or treatment sought	Other	
Total	25.0	28.6	4.3	16.1	63.4	32.4	7,124	
State								
Abia	13.6	46.6	0.9	4.1	63.0	36.3	72	
Adamawa	23.4	22.1	6.8	9.4	50.6	46.8	138	
Akwa Ibom	14.3	28.6	0.9	26.9	58.5	30.3	168	
Anambra	12.6	26.2	0.0	15.9	49.0	47.6	59	
Bauchi	25.3	27.5	1.0	6.2	52.6	45.5	453	
Bayelsa	10.2	23.2	0.0	28.8	50.2	38.9	32	
Benue	2.8	50.8	0.0	9.8	56.6	41.2	54	
Borno	26.6	57.1	8.3	4.5	82.4	13.5	549	
Cross River	17.5	49.3	1.3	20.2	76.7	20.2	114	
Delta	19.6	34.4	1.3	12.4	63.3	33.6	84	
Ebonyi	21.1	23.4	2.1	11.2	43.1	52.3	35	
Edo	(32.9)	(33.4)	(0.0)	(12.2)	(71.8)	(25.8)	26	
Ekiti	(15.1)	(17.8)	(0.0)	(1.5)	(34.4)	(65.6)	17	
Enugu	18.8	40.7	3.9	22.8	71.1	26.7	47	
Gombe	36.7	21.0	11.4	17.2	72.5	25.7	167	
Imo	20.5	39.6	4.2	25.6	80.0	15.8	112	
Jigawa	30.6	1.0	9.9	35.1	60.3	35.6	438	
Kaduna	32.4	31.4	16.1	17.4	72.0	21.3	383	
Kano	25.2	14.4	1.9	27.0	62.2	34.8	823	
Katsina	33.5	15.5	0.9	9.2	55.4	42.3	560	
Kebbi	34.3	11.0	7.3	23.7	61.0	35.0	290	
Kogi	16.9	46.8	4.0	19.3	73.3	22.1	88	
Kwara	(29.2)	(23.9)	(0.0)	(38.9)	(89.2)	(10.8)	26	
Lagos	21.5	39.7	0.0	12.2	69.4	26.8	105	
Nasarawa	29.7	33.1	2.3	16.2	75.0	21.5	104	
Niger	25.4	38.5	2.7	25.0	73.2	17.8	326	
Ogun	8.1	22.1	1.7	16.0	37.1	55.7	46	
Ondo	23.5	6.6	0.7	14.2	38.6	57.3	67	
Osun	18.1	23.5	3.5	15.7	50.0	45.5	76	
Oyo	13.7	48.8	1.7	11.7	64.7	28.2	132	
Plateau	18.7	45.9	0.3	13.4	71.3	22.7	178	
Rivers	13.6	65.9	0.0	7.1	80.3	16.9	85	
Sokoto	34.6	25.1	10.0	3.1	60.5	38.5	248	
Taraba	9.2	28.6	2.0	23.8	50.4	38.4	59	
Yobe	17.3	25.5	1.7	6.0	45.8	51.3	438	
Zamfara	22.1	37.7	3.5	14.9	68.5	25.6	478	
FCT Abuja	27.5	33.4	1.1	11.9	62.5	33.8	49	

¹ MICS indicator 3.20 - Care-seeking for fever

^a Community health providers include both public (Community health worker and Mobile/Outreach clinic) and private (Mobile clinic) health facilities

^b Includes all public and private health facilities and providers as well as shops

() Sample data are based on 25-49 unweighted cases

Table CH.21: Treatment of children with fever

Percentage of children age 0-59 months who had a fever in the last two weeks, by type of medicine given for the illness, Nigeria, 2016-17

	Children with a fever in the last two weeks who were given:												Number of children with fever in last two weeks	
	Anti-malarials						Other medications							
	SP/ Fansidar	Chloroquine	Amodia-quine	Quinine	Artemisinin-based Combination Therapy (ACT)	Other anti-malarial	Antibiotic pill or syrup	Antibiotic injection	Paracetamol/ Panadol/ Acetaminophen	Aspirin	Ibuprofen	Other		Missing/DK
Total	5.7	8.8	2.3	1.8	7.6	13.0	20.0	7.9	51.3	1.7	1.2	11.9	4.3	7,124
Geopolitical zone														
North Central	4.9	6.8	2.4	2.1	8.6	17.7								
North East	6.3	13.1	1.7	1.0	3.5	15.5	18.7	7.7	50.0	2.1	1.7	20.2	3.5	824
North West	5.7	7.7	2.1	2.1	7.1	9.3	19.2	9.5	46.5	1.8	1.3	9.0	5.4	3,218
South East	5.4	2.4	4.4	2.8	13.6	15.2	16.5	8.0	49.8	1.4	1.4	15.2	7.1	325
South South	5.0	6.9	3.5	1.7	10.4	18.9	17.1	3.0	55.9	0.8	0.6	14.4	6.8	510
South West	4.9	9.5	3.1	2.3	18.2	12.5	20.8	3.3	51.4	0.9	3.2	26.2	1.6	442
Sex														
Male	5.3	8.9	2.3	2.0	7.9	11.9	20.0	8.0	49.3	1.8	1.2	12.6	4.6	3,690
Female	6.1	8.6	2.3	1.7	7.2	14.2	20.1	7.8	53.4	1.6	1.3	11.2	3.9	3,434
Residence														
Urban	6.2	10.7	2.7	2.1	11.4	13.4	26.1	8.9	54.4	2.7	1.6	13.7	2.3	1,852
Rural	5.5	8.1	2.1	1.7	6.2	12.9	17.9	7.5	50.2	1.4	1.1	11.3	5.0	5,271
Age (months)														
0-11	4.0	7.5	1.3	1.6	5.4	10.4	21.5	5.8	51.2	1.4	0.7	13.5	3.7	1,102
12-23	4.9	9.6	2.3	2.2	6.1	10.6	21.8	7.1	50.4	1.2	0.9	10.7	4.5	1,524
24-35	7.6	7.1	3.0	2.2	8.4	16.0	21.5	8.6	52.9	2.3	1.4	11.9	4.0	1,543

36-47	5.5	8.5	1.8 1.2	8.8	12.2	18.1	9.6	50.1	1.8	1.6 13.0	4.5	1,507
48-59	5.8	11.1	2.8 2.0	8.5	15.1	17.4	7.7	51.8	1.9	1.4 10.9	4.5	1,447
Mother's education												
None	5.1	7.4	1.8 1.2	4.6	10.7	16.8	6.7	51.4	1.9	0.7 10.5	5.1	2,077
Primary	7.5	9.7	1.9 2.5	7.3	13.2	20.3	7.3	52.3	2.9	1.0 12.2	3.3	1,016
Non-formal	4.3	9.5	1.7 1.4	5.3	13.2	22.1	10.5	50.1	1.2	0.8 8.5	4.2	2,108
Secondary	6.6	8.7	3.7 2.8	11.1	15.2	20.4	5.9	51.7	1.1	2.2 16.8	4.6	1,568
Higher	7.9	10.5	3.7 2.0	23.4	14.9	24.3	9.5	53.2	3.1	3.2 17.6	1.0	353
Missing/Don't know	0.0	0.0	0.0 0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0	0.0	1
Wealth index quintile												
Poorest	3.7	5.0	1.5 1.1	3.6	9.1	16.7	7.6	46.7	1.4	1.2 9.3	4.9	1,817
Second	5.8	8.6	1.9 2.3	5.4	11.1	19.1	7.5	49.6	1.8	0.3 10.6	4.8	1,696
Middle	5.1	10.2	2.5 1.4	7.0	17.0	19.6	8.0	55.3	2.2	1.0 11.3	4.0	1,478
Fourth	7.9	13.3	2.6 1.9	10.1	14.8	22.4	9.9	54.9	1.9	1.7 14.5	4.5	1,243
Richest	7.1	8.4	3.9 3.1	17.0	15.4	26.2	6.2	52.3	1.3	2.8 17.1	2.1	889
Ethnicity of household head												
Hausa	5.3	9.7	1.8 1.8	5.9	11.6	20.3	8.9	50.5	1.9	1.2 9.0	4.4	4,698
Igbo	6.1	4.6	4.6 2.5	17.1	14.9	18.6	6.7	48.5	1.0	2.3 14.9	5.8	457
Yoruba	5.6	8.6	3.0 1.9	16.2	12.4	19.5	6.2	52.4	1.4	1.0 24.6	2.6	399
Other ethnic group	6.6	7.4	2.8 1.8	7.5	16.8	19.9	5.4	54.4	1.6	1.0 16.6	3.9	1,571

Table CH.21: Treatment of children with fever (continued)

Percentage of children age 0-59 months who had a fever in the last two weeks, by type of medicine given for the illness, Nigeria, 2016-17

Children with a fever in the last two weeks who were given:											
Anti-malarials						Other medications					
SP/ Fansidar	Chloroquine Amodia- quine	Quinine	Artemisinin- based Combination Therapy ACT	Other anti- malarial	Antibiotic pill or syrup	Antibiotic injection	Paracetamol / Panadol/ Acetaminop hen	Aspirin	Ibuprofen	Other Missing/Don't know	Number of children with fever in last two weeks

Total	5.7	8.8	2.3	1.8	7.6	13.0	20.0	7.9	51.3	1.7	1.2	11.9	4.3	7,124
State														
Abia	6.8	3.9	2.2	5.0	16.8	13.7	10.0	5.2	35.4	0.0	1.7	11.1	14.3	72
Adamawa	20.1	16.1	0.3	1.0	2.9	8.4	10.8	3.7	40.8	1.0	0.0	7.2	1.1	138
Akwa Ibom	1.6	8.0	1.0	0.0	3.4	16.1	11.0	2.0	50.0	1.0	0.9	11.3	7.8	168
Anambra	4.5	3.3	7.8	3.1	12.8	20.6	13.2	6.5	34.4	2.2	3.5	8.2	8.8	59
Bauchi	5.2	6.6	1.4	2.6	5.0	12.0	16.6	3.8	62.9	1.0	1.6	8.9	1.4	453
Bayelsa	0.0	6.4	4.0	3.9	20.6	15.4	7.8	2.5	43.7	1.2	0.8	9.7	5.4	32
Benue	0.0	1.6	4.1	7.6	19.0	8.2	8.9	1.0	40.6	0.0	0.0	25.1	8.5	54
Borno	5.7	26.6	2.1	0.0	4.0	27.5	31.1	13.9	68.8	1.6	0.0	12.4	0.0	549
Cross River	8.6	3.9	5.1	0.0	18.0	14.0	17.9	4.1	68.2	1.3	0.7	16.8	2.9	114
Delta	6.9	10.0	4.0	3.2	7.4	21.1	18.0	3.2	53.5	0.8	0.5	15.3	10.0	84
Ebonyi	7.7	0.0	6.4	3.8	4.0	15.0	19.7	4.0	62.1	1.0	0.0	7.5	3.9	35
Edo	(8.7)	(1.4)	(4.6)	(9.3)	(38.3)	(7.7)	(17.3)	(10.7)	(45.6)	(0.0)	(0.0)	(19.0)	(0.0)	26
Ekiti	(5.3)	(8.5)	(6.6)	(0.0)	(7.3)	(9.1)	(16.8)	(1.9)	(55.3)	(3.4)	(3.0)	(38.2)	(5.8)	17
Enugu	5.6	1.8	3.8	1.5	25.8	17.6	13.4	5.1	60.6	2.4	2.3	4.9	5.5	47
Gombe	4.2	5.4	0.6	1.0	4.5	15.1	25.4	11.3	48.9	0.7	0.0	11.2	7.8	167
Imo	4.3	1.9	3.6	1.3	9.7	12.2	22.7	12.9	58.6	1.6	0.0	28.3	3.3	112
Jigawa	3.0	6.4	1.5	1.0	2.1	4.4	13.7	7.6	45.3	1.1	3.8	7.0	9.8	438
Kaduna	7.2	8.1	3.8	8.6	18.8	11.3	24.9	8.5	68.2	3.7	1.1	8.9	4.6	383
Kano	6.5	6.8	2.5	2.6	9.1	13.9	14.5	6.9	48.4	1.2	1.7	10.6	3.6	823
Katsina	9.1	5.9	1.5	0.2	5.5	5.1	37.4	10.5	33.7	4.9	0.7	9.8	2.7	560
Kebbi	4.6	13.8	2.1	1.7	3.2	8.8	12.8	13.5	39.1	0.3	0.4	7.4	3.5	290
Kogi	3.6	4.6	0.8	0.7	10.2	18.7	9.7	5.5	38.7	7.2	2.7	12.3	6.6	88
Kwara	(6.2)	(14.8)	(9.8)	(1.9)	(14.7)	(13.1)	(25.7)	(4.8)	(31.0)	(8.6)	(8.9)	(22.5)	(0.0)	26

Lagos	2.3	2.7	3.5	2.3	41.8	16.3	45.7	0.6	54.3	0.0	10.4	12.9	0.3	105
Nasarawa	6.6	4.2	4.6	2.9	2.8	19.0	24.7	11.9	56.8	1.1	0.5	15.6	0.6	104
Niger	3.6	9.8	1.8	1.4	5.9	16.0	18.5	5.1	61.5	1.1	1.0	20.7	2.7	326
Ogun	4.6	4.8	10.0	1.7	13.1	11.4	9.6	4.1	36.4	0.0	0.0	28.0	0.0	46
Ondo	5.4	12.3	1.0	1.1	3.9	16.6	21.7	0.7	55.3	0.0	1.8	23.8	0.0	67
Osun	0.0	9.2	4.5	4.3	7.4	12.6	17.1	3.6	65.9	0.0	2.3	34.7	2.3	76
Oyo	9.7	15.5	0.0	2.1	16.0	8.2	7.2	6.6	43.5	2.7	0.0	31.0	3.1	132
Plateau	9.5	5.8	1.8	2.5	9.0	21.3	22.0	12.0	34.4	1.9	2.5	23.6	4.7	178
Rivers	5.5	7.9	5.3	2.7	4.8	33.5	30.7	1.4	61.2	0.0	0.0	16.5	9.7	85
Sokoto	6.4	6.8	1.9	1.4	8.3	8.6	4.9	7.8	35.6	0.4	0.0	7.2	14.9	248
Taraba	3.6	1.7	0.0	0.0	2.4	3.9	7.0	0.0	18.6	2.2	0.0	7.7	23.2	59
Yobe	5.1	6.6	2.5	0.6	1.2	8.1	26.1	3.9	59.8	4.1	0.7	2.8	0.6	438
Zamfara	2.0	9.1	1.3	0.0	2.2	10.0	18.0	14.1	51.9	0.0	0.2	9.2	4.5	478
FCT Abuja	0.3	2.0	1.7	1.0	20.1	23.5	17.8	12.9	56.1	0.6	1.7	22.2	0.4	49

() Sample data are based on 25-49 unweighted cases

Table CH.22: Diagnostics and anti-malarial treatment of children

Percentage of children age 0-59 months who had a fever in the last two weeks who had a finger or heel stick for malaria testing, who were given Artemisinin-combination Treatment (ACT) and any anti-malarial drugs, and percentage who were given ACT among those who were given anti-malarial drugs, Nigeria, 2016-17

taken from a combination	Percentage of children who:					Number of children age 0-59 months who were fever in the last two weeks	Treatment with Artemisinin-based Combination Therapy (ACT) received anti-malarial treatment ³	Number of children age 0-59 months with fever in the last two weeks who were given any anti-malarial drugs
	Had blood ACT the finger or heel for testing ¹	Were given:						
		Artemisinin-Any Treatment (ACT)	antimalarial same or next day	any antimalarial drugs ²	or next day			

Total	13.8	7.6	5.6	36.8	25.0	7,124	20.6	2,620																		
Geopolitical zone																										
North Central				20.5	8.6	6.9	40.8	30.8	824	21.1	337															
North East	10.8	3.5	2.0	38.0	20.8	1,804	9.1	685	North West	13.8	7.1	5.7	31.9	23.2	3,218	22.1	1,027	South East	14.6	13.6	9.4	41.0	28.7	325	33.1	133
South South				13.6	10.4	7.3	44.3	31.6	510										23.5		226					
South West				14.3	18.2	12.3	48.0	33.5	442										37.9		212					
Sex																										
Male				14.0	7.9	5.7	36.0	25.0	3,690	21.8	1,329															
Female				13.6	7.2	5.5	37.6	24.9	3,434	19.2	1,291															
Residence																										
Urban				16.5	11.4	8.9	43.9	34.0	1,852	26.1	813															
Rural				12.9	6.2	4.4	34.3	21.8	5,271	18.1	1,807															
Age (months)																										
0-11				11.3	5.4	4.7	28.7	21.4	1,102	18.9	316															
12-23				11.5	6.1	4.5	33.5	23.4	1,524	18.3	511															
24-35				15.6	8.4	6.5	42.0	27.6	1,543	20.1	648															
36-47				14.8	8.8	5.8	35.6	23.1	1,507	24.6	537															
48-59				15.4	8.5	6.2	42.0	28.4	1,447	20.2	608															
Mother's education																										
None				10.3	4.6	3.2	28.6	17.0	2,077	16.1	595															
Non-formal				13.0	5.3	4.0	33.5	20.8	2,108	15.7	707															
Primary	13.9	7.3	5.5	38.8	29.1	1,016	18.8	394	Secondary	15.3	11.1	7.5	45.5	33.0	1,568	24.5	714									
Higher				33.5	23.4	20.2	59.3	49.0	353	39.5	210															
Missing/Don't know				0.0	100.0	100.0	100.0	100.0	1	100.0	1															
Wealth index quintile																										
Poorest				10.5	3.6	2.3	23.0	13.5	1,817	15.7	418															
Second				12.3	5.4	4.0	32.4	20.9	1,696	16.8	549															
Middle				14.0	7.0	5.0	40.9	25.7	1,478	17.1	604															
Fourth				15.5	10.1	8.4	47.3	35.8	1,243	21.4	588															
Richest				20.9	17.0	12.2	51.8	39.8	889	32.9	461															
Ethnicity of household head																										
Hausa	13.3	5.9	4.7	34.1	22.7	4,698	17.4	1,603	Igbo	16.6	17.1	10.8	46.7	31.8	457	36.7	213									
Yoruba				12.9	16.2	12.1	45.4	34.4	399	35.7	181															
Other ethnic group				14.9	7.5	5.1	39.6	27.4	1,571	18.9	622															
1 MICS indicator 3.21 - Malaria diagnostics usage																										
2 MICS indicator 3.22; MDG indicator 6.8 - Anti-malarial treatment of children under age 5																										

³ MICS indicator 3.23 - Treatment with Artemisinin-based Combination Therapy (ACT) among children who received anti-malarial treatment

Table CH.22: Diagnostics and anti-malarial treatment of children (continued)

Percentage of children age 0-59 months who had a fever in the last two weeks who had a finger or heel stick for malaria testing, who were given Artemisinin-combination Treatment (ACT) and any anti-malarial drugs, and percentage who were given ACT among those who were given antimalarial drugs, Nigeria, 2016-17

a finger or	Percentage of children who:					Number of children age 0-59 months	Treatment with Artemisinin-based Combination Therapy (ACT) given any antimalarial testing ¹ (ACT)	Number of children age 0-59 months with fever in the last two weeks who were given any antimalarial testing ¹ (ACT)
	Had blood taken from heel for next day drugs ²	Artemisinin-combination ACT the next day	Any antimalarial drugs ²	antimalarial drugs ²	Any with fever in the last received anti-malarial treatment ³			
Total	13.8	7.6	5.6	36.8	25.0	7,124	20.6	2,620
State								
Abia	14.9	16.8	16.2	42.5	34.2	72	39.6	30
Adamawa	15.4	2.9	1.0	34.5	26.2	138	8.4	47
Akwa Ibom	13.1	3.4	2.4	30.0	24.2	168	(11.3)	50
Anambra	12.6	12.8	12.8	52.2	37.1	59	24.5	31
Bauchi	7.9	5.0	2.6	32.2	18.0	453	15.4	146
Bayelsa	8.4	20.6	10.1	47.1	29.1	32	(43.8)	15
Benue	13.5	19.0	19.0	37.8	29.3	54	(*)	20
Borno	11.8	4.0	2.1	63.0	32.9	549	6.4	346
Cross River	19.6	18.0	13.0	46.8	33.0	114	38.4	53
Delta	10.8	7.4	5.0	47.4	27.5	84	15.6	40
Ebonyi	11.5	4.0	4.0	36.9	23.1	35	(10.9)	13
Edo	(19.3)	(38.3)	(29.2)	(70.0)	(47.5)	26	(54.7)	18
Ekiti	(6.7)	(7.3)	(7.3)	(35.3)	(26.4)	17	(*)	6
Enugu	15.6	25.8	11.0	51.7	33.4	47	(49.8)	25
Gombe	14.3	4.5	3.8	29.6	23.7	167	15.2	50
Imo	16.2	9.7	4.2	30.9	20.6	112	(31.4)	35
Jigawa	11.4	2.1	1.8	16.8	9.6	438	12.7	73
Kaduna	9.2	18.8	17.2	56.7	52.5	383	33.1	217
Kano	11.3	9.1	7.2	39.0	30.9	823	23.4	321
Katsina	17.7	5.5	4.2	24.5	15.1	560	22.5	137
Kebbi	23.8	3.2	2.1	30.9	18.2	290	10.4	90
Kogi	25.2	10.2	9.6	37.3	33.1	88	27.4	33
Kwara	(29.7)	(14.7)	(6.2)	(60.6)	(46.0)	26	(*)	16
Lagos	30.2	41.8	24.0	67.0	40.5	105	62.4	70
Nasarawa	26.7	2.8	1.8	39.5	29.7	104	7.1	41
Niger	13.1	5.9	3.4	35.5	21.8	326	16.7	116
Ogun	8.3	13.1	11.5	43.9	35.6	46	(29.8)	20
Ondo	11.7	3.9	3.9	40.1	23.6	67	(9.6)	27
Osun	3.8	7.4	2.4	36.5	26.8	76	(20.2)	28
Oyo	12.1	16.0	14.0	46.4	36.9	132	(34.4)	61
Plateau	31.2	9.0	8.0	49.4	43.2	178	18.2	88
Rivers	9.3	4.8	4.0	57.3	44.5	85	(8.3)	49
Sokoto	16.1	8.3	4.8	31.7	22.1	248	26.3	78
Taraba	13.9	2.4	1.5	10.7	7.2	59	(*)	6
Yobe	9.3	1.2	0.7	20.6	7.6	438	5.8	90
Zamfara	11.8	2.2	1.5	23.1	12.0	478	9.4	110
FCT Abuja	12.1	20.1	19.4	47.1	36.6	49	42.7	23

1 MICS indicator 3.21 - Malaria diagnostics usage

2 MICS indicator 3.22; MDG indicator 6.8 - Anti-malarial treatment of children under age 5

MICS indicator 3.23 - Treatment with Artemisinin-based Combination Therapy (ACT) among children who received anti-malarial treatment

() Sample data are based on 25-49 unweighted cases

(*) Sample data are fewer than 25 unweighted cases

Table CH.23: Source of anti-malarial

Percentage of children age 0-59 months with fever in the last two weeks who were given anti-malarial by the source of anti-malarial, Nigeria, 2016-17

Number of children age 0-59 months health given anti-malarial the last two weeks	Percentage of children for whom the source of anti-malarial was:				Number of children age 0-59 months who were with fever in the last two weeks
	Public health facilities or providers	Private health provider ^a	Other source	Community A facility or treatment provider ^b	

Total	36.8	7,124	35.7	45.9	6.9	18.3	98.0	2,620
Geopolitical zone								
North Central	40.8	824	28.0	56.1	2.0	16.0	96.5	337
North East	38.0	1,804	39.6	53.7	9.5	6.6	99.3	685
North West	31.9	3,218	44.4	29.5	10.1	26.0	98.0	1,027
South East	41.0	325	20.7	64.6	1.7	14.7	98.8	133
South South	44.3	510	20.6	57.4	0.3	22.0	96.1	226
South West	48.0	442	18.9	60.1	1.3	21.0	97.9	212
Sex								
Male	36.0	3,690	35.6	46.6	7.3	17.7	97.7	1,329
Female	37.6	3,434	35.9	45.2	6.5	18.9	98.4	1,291
Residence								
Urban	43.9	1,852	35.9	52.5	5.4	11.6	98.5	813
Rural	34.3	5,271	35.7	43.0	7.6	21.3	97.8	1,807
Age (months)								
0-11	28.7	1,102	38.4	46.8	2.6	14.4	99.2	316
12-23	33.5	1,524	40.4	38.7	8.3	20.9	97.2	511
24-35	42.0	1,543	34.4	49.9	5.8	15.8	97.4	648
36-47	35.6	1,507	32.7	46.6	6.8	20.7	98.1	537
48-59	42.0	1,447	34.6	46.7	9.4	18.7	98.8	608
Mother's education								
None	28.6	2,077	38.1	39.5	7.7	22.4	98.5	595
Non-formal	33.5	2,108	36.2	45.0	11.1	18.8	98.1	707
Primary	38.8	1,016	37.2	43.9	6.1	18.6	97.2	394
Secondary	45.5	1,568	31.2	51.5	3.9	17.3	97.5	714
Higher	59.3	353	40.3	51.8	2.7	8.0	99.9	210
Wealth index quintile								
Poorest	23.0	1,817	45.0	33.2	10.5	21.8	97.1	418
Second	32.4	1,696	38.1	35.8	8.7	26.1	97.9	549
Middle	40.9	1,478	28.4	52.8	5.7	18.5	97.2	604
Fourth	47.3	1,243	37.5	49.2	5.9	13.3	98.8	588
Richest	51.8	889	31.9	56.2	4.5	11.9	99.1	461
Ethnicity of household head								
Hausa	34.1	4,698	41.8	38.7	10.0	19.5	98.1	1,603
Igbo	46.7	457	25.8	61.0	1.0	13.2	98.6	213
Yoruba	45.4	399	20.2	57.0	0.9	22.7	98.0	181
Other ethnic group	39.6	1,571	28.2	56.1	2.8	15.7	97.5	622
^a Community health providers include both public (Community health worker and Mobile/Outreach clinic) and private (Mobile clinic) health facilities								
^b Includes all public and private health facilities and providers as well as shops								

Table CH.23: Source of anti-malarial (continued)

Percentage of children age 0-59 months with fever in the last two weeks who were given anti-malarial by the source of anti-malarial, Nigeria, 2016-17

	Number of children age 0-59 months		Percentage of children for whom the source of anti-malarial was:					Number of children age 0-59 months with fever in the last two weeks
	Given anti-malarial the last two weeks	Health facilities or providers	Public	Private	health provider ^a	Other source	facility or treatment for fever in the last two weeks	
Total	36.8	7,124	35.7	45.9	6.9	18.3	98.0	2,620
State								
Abia	42.5	72	16.1	80.7	2.1	3.2	100.0	30
Adamawa	34.5	138	28.6	54.8	2.6	16.6	100.0	47
Akwa Ibom	30.0	168	14.5	41.9	0.0	43.6	87.6	50
Anambra	52.2	59	(14.4)	(67.4)	(1.7)	(18.2)	(96.2)	31
Bauchi	32.2	453	41.9	45.1	2.4	13.0	98.4	146
Bayelsa	47.1	32	(12.6)	(38.2)	(1.6)	(49.2)	(93.8)	15
Benue	37.8	54	(*)	(*)	(*)	(*)	(*)	20
Borno	63.0	549	38.3	61.7	14.2	0.0	100.0	346
Cross River	46.8	114	26.3	55.2	0.0	18.5	98.5	53
Delta	47.4	84	27.4	57.3	0.0	15.3	100.0	40
Ebonyi	36.9	35	(29.6)	(70.4)	(2.6)	(0.0)	(100.0)	13
Edo	(70.0)	26	(30.0)	(58.9)	(1.8)	(11.1)	(100.0)	18
Ekiti	(35.3)	17	(*)	(*)	(*)	(*)	(*)	6
Enugu	51.7	47	(33.5)	(42.2)	(3.0)	(24.3)	(98.3)	25
Gombe	29.6	167	48.7	34.3	7.2	17.0	98.0	50
Imo	30.9	112	(17.9)	(61.6)	(0.0)	(20.5)	(100.0)	35
Jigawa	16.8	438	62.9	1.4	(7.2)	35.8	96.6	73
Kaduna	56.7	383	44.9	41.4	30.8	13.7	97.5	217
Kano	39.0	823	32.8	25.5	3.0	41.3	97.5	321
Katsina	24.5	560	46.2	30.5	2.4	23.3	98.2	137
Kebbi	30.9	290	51.7	18.9	6.3	29.4	97.9	90
Kogi	37.3	88	31.1	55.7	5.9	13.2	98.4	33
Kwara	(60.6)	26	(*)	(*)	(*)	(*)	(*)	16
Lagos	67.0	105	21.4	60.6	0.7	18.0	98.0	70
Nasarawa	39.5	104	32.3	54.9	3.2	12.8	99.0	41
Niger	35.5	326	29.7	52.9	0.0	17.3	92.3	116
Ogun	43.9	46	(8.3)	(62.0)	(5.9)	(29.7)	(100.0)	20
Ondo	40.1	67	(32.8)	(27.7)	(0.0)	(39.6)	(98.3)	27
Osun	36.5	76	(30.7)	(45.7)	(0.0)	(23.6)	(90.7)	28
Oyo	46.4	132	(9.2)	(79.6)	(1.5)	(11.2)	(100.0)	61
Plateau	49.4	178	22.4	65.2	2.1	12.4	98.3	88
Rivers	57.3	85	(14.2)	(81.3)	(0.0)	(4.5)	(98.4)	49
Sokoto	31.7	248	69.4	23.1	10.7	7.5	100.0	78
Taraba	10.7	59	(*)	(*)	(*)	(*)	(*)	6
Yobe	20.6	438	43.4	49.9	7.4	6.7	98.7	90
Zamfara	23.1	478	39.3	48.1	4.6	12.6	100.0	110
FCT Abuja	47.1	49	40.7	41.8	0.0	17.5	98.4	23

^a Community health providers include both public (Community health worker and Mobile/Outreach clinic) and private (Mobile clinic) health facilities

^b

Includes all public and private health facilities and providers as well as shops

() Sample data are based on 25-49 unweighted cases

(*) Sample data are fewer than 25 unweighted cases

Table CH.24: Pregnant women sleeping under mosquito nets

Percentage of pregnant women age 15-49 years who slept under a mosquito net last night, by type of net, Nigeria, 2016-17

	Percentage of 15-49 years who slept under:	Percentage of pregnant women age 15-49 years who the previous night	pregnant women who spent last night	Number of pregnant women age 15-49 years net (ITN) ¹	Any insecticide treated net (LLIN)	Number of pregnant women who spent last night in the ITN last night in households at least one ITN	Percentage of pregnant women who slept under an in the ITN last night in households with at least one ITN	Number of pregnant women age 15-49 years living in households with at least one ITN
Total	99.3	3,724	36.7	39.6	38.8	3,700	53.8	2,725
Geopolitical zone								
North Central	98.9	622	31.4	34.6	34.5	615	48.5	440
North East	99.7	789	47.4	49.7	47.3	786	61.6	634
North West	99.6	1,577	45.6	48.7	47.8	1,571	60.4	1,267
South East	99.5	159	9.3	12.7	12.7	159	23.6	85
South South	99.2	244	14.1	17.0	17.0	242	33.9	121
South West	98.2	334	8.9	11.2	11.2	328	20.8	177
Residence								
Urban	98.8	991	28.2	30.3	29.8	979	45.4	654
Rural	99.5	2,733	39.8	43.0	42.0	2,720	56.5	2,071
Age (Years)								
15-19	98.7	416	39.5	41.1	39.8	411	54.9	307
20-24	99.2	798	35.8	39.2	38.3	792	54.2	573
25-29	99.4	938	35.6	38.9	38.2	932	53.6	677
30-34	99.7	750	32.4	35.7	34.9	748	48.9	546
35-39	99.5	479	38.3	41.3	41.1	477	56.1	351
40-44	98.9	236	47.5	48.6	45.7	233	60.2	189
45-49	100.0	106	43.0	45.3	44.2	106	58.8	82

Education								
None	99.7	1,132	42.7	46.4	44.9	1,128	60.0	872
Non-formal	99.4	840	47.4	50.2	49.3	835	63.4	661
Primary	98.9	559	34.7	36.9	35.8	553	50.9	401
Secondary	99.4	949	25.2	27.5	27.3	943	40.6	640
Higher	98.6	244	21.5	25.1	25.1	240	40.0	151
Wealth index quintile								
Poorest	99.7	871	46.1	49.8	47.8	868	63.1	685
Second	99.3	897	46.3	49.0	47.3	891	63.0	693
Middle	99.2	738	35.8	38.7	38.7	732	51.3	553
Fourth	99.6	626	27.8	30.4	30.3	623	44.5	426
Richest	98.7	592	18.9	21.4	21.4	585	33.9	369
Ethnicity of household head								
Hausa	99.8	2,205	46.1	49.3	48.2	2,200	60.9	1,779
Igbo	99.7	249	9.9	12.5	12.5	249	22.8	137
Yoruba	97.9	295	7.7	10.2	10.2	288	19.3	152
Other ethnic group	98.8	975	31.0	33.4	32.5	963	49.0	657
¹ MICS indicator 3.24 - Pregnant women who slept under an insecticide treated net (ITN)								

Table CH.24: Pregnant women sleeping under mosquito nets (continued)

Percentage of pregnant women age 15-49 years who slept under a mosquito net last night, by type of net, Nigeria, 2016-17

	Percentage of pregnant women age 15-49 years who the previous night pregnant		Percentage of pregnant women age 15-49 years who slept under:				Percentage of pregnant women who slept under an ITN last night in women age 15-49 in the households with at least one ITN		Percentage of pregnant women who slept under an LLIN last night in women age 15-49 in the households with at least one LLIN																																																					
	Number of pregnant women interviewed	Number of pregnant women interviewed	An insecticidal net	A Long-lasting mosquito net (ITN) ¹	spent last night in the household	spent last night in the household	interviewed	with at least one ITN	interviewed	with at least one LLIN																																																				
Total State	99.3	3,724	36.7	39.6	38.8	3,700	53.8			2,725																																																				
Abia	100.0	29	3.6	11.3	11.3	29	(18.1)			18																																																				
Adamawa	100.0	109	44.5	48.5	47.0	109	62.5	85	Akwa Ibom	100.0	57	5.4	15.9	15.9	57	(27.2)	33	Anambra	(100.0)	25	(7.3)	(10.0)	(10.0)	25	(*)																																					
Bauchi	100.0	214	54.6	60.4	57.1	214	67.5	191	Bayelsa	97.3	26	13.3	11.8	11.8	25	(30.6)	10	Benue	99.1	109	52.8	57.8	57.8	108	63.4	99																																				
Borno	(100.0)	212	(38.1)	(38.1)	(36.0)	212	(50.8)	159	Cross River	98.8	38	33.3	40.9	40.9	38	(57.1)	27																																													
Delta	98.2	40	(14.0)	(16.0)	(16.0)	39	(29.9)	21	Ebonyi	97.2	30	28.0	29.1	29.1	29	(45.2)	19	Edo	(100.0)	29	(4.0)	(4.0)	(4.0)	29	(*)	7	Ekiti	(97.2)	12																																	
Enugu	100.0	33	6.8	5.8	5.8	33	(*)	12	Gombe	99.1	62	56.5	54.9	53.7	62	61.2	55	Imo	100.0	42	3.5	9.4	9.4	42	(17.0)	23																																				
Jigawa	99.5	262	63.1	63.4	63.4	261	72.9	227																																																						
Kaduna	99.8	241	21.9	22.5	22.1	240	37.7	144	Kano	99.5	315	47.7	51.1	50.9	313	62.3	257	Katsina	100.0	285	41.6	48.5	47.3	285	54.1	255	Kebbi	100.0	124	33.6	37.8	35.1	124	49.5	95	Kogi	95.7	35	(9.4)	(9.4)	(9.4)	33	(*)	16	Kwara	97.7	40	9.6	9.6	9.6	39	(*)	13	Lagos	96.6	113	3.2	4.1	4.1	109	(8.2)	54
Nasarawa	97.5	88	32.7	35.0	35.0	86	52.2	58																																																						
Niger	99.5	190	25.6	29.3	29.0	189	39.2	142	Ogun	(100.0)	31	(10.3)	(10.3)	(10.3)	31	(*)	14	Ondo	100.0	55	20.8	20.3	20.3	55	(40.5)	27	Osun	(100.0)	41	(4.3)	(10.5)	(10.5)	41	(*)	18	Oyo	(97.7)	82	(9.6)	(15.3)	(15.3)	80	(21.4)	57																		
Plateau	100.0	134	37.5	41.6	41.6	134	54.3	103	Rivers	(100.0)	54	(15.7)	(11.6)	(11.6)	54	(*)	24	Sokoto	100.0	119	37.2	41.7	37.6	119	60.8	82																																				
Taraba	100.0	62	12.6	14.9	14.1	62	(26.9)	34																																																						
Yobe	98.4	130	65.5	66.6	62.9	128	77.0	110	Zamfara	98.9	230	63.5	66.1	66.1	227	72.5	207																																													
FCT Abuja	98.4	25	9.0	8.2	8.2	25	20.9	10																																																						

() Sample data are based on 25-49 unweighted cases

(*) Sample data are fewer than 25 unweighted cases

Table CH.25: Intermittent preventive treatment for malaria

Percentage of women age 15-49 years who had a live birth during the two years preceding the survey and who received intermittent preventive treatment (IPT) for malaria during pregnancy at any antenatal care visit, Nigeria, 2016-17

	Percentage of women who received antenatal care (ANC)	Number of women who received a live birth in the last two years	Percentage of pregnant women:					Number of women who received antenatal care
			Who took any medicine to prevent malaria during pregnancy	who took SP/Fansidar at least once during an ANC visit and in total took:				
			At least once	more times	more times ¹	Four or more times		
Total	61.4	11,547	76.4	48.5	31.1	14.9	5.7	7,094
Geopolitical zone								
North Central	60.5	1,770	71.6	39.6	26.7	11.9	5.8	1,070
North East	62.4	2,394	75.2	59.9	39.5	19.5	6.7	1,494
North West	46.6	4,603	78.1	59.4	36.5	19.7	7.3	2,147
South East	90.7	620	75.2	27.2	18.0	8.6	3.2	562
South South	79.0	900	83.5	40.4	25.4	8.8	2.6	711
South West	88.1	1,261	75.5	36.7	24.2	9.6	4.4	1,110
Residence								
Urban	85.8	3,426	78.6	48.6	29.5	13.3	4.2	2,938
Rural	51.2	8,121	74.9	48.5	32.3	16.0	6.7	4,156
Education								
None	43.5	3,208	70.5	48.9	29.7	16.5	7.8	1,394
Non-formal	38.0	2,560	79.6	62.7	38.9	17.0	5.3	973
Primary	67.6	1,716	73.9	49.8	35.0	17.7	6.3	1,160
Secondary	85.5	3,182	78.1	43.5	28.3	13.3	5.2	2,719
Higher	96.0	882	80.7	46.2	28.4	11.6	3.4	847
Wealth index quintile								
Poorest	27.1	2,587	70.4	49.2	29.8	16.7	7.4	702
Second	46.6	2,548	70.1	49.2	32.5	15.6	7.4	1,187
Middle	66.7	2,270	75.8	50.4	34.1	15.8	6.9	1,514
Fourth	84.6	2,113	78.4	48.5	30.4	15.8	4.9	1,788
Richest	93.8	2,028	81.2	46.4	29.2	12.3	3.8	1,903
Ethnicity of household head								
Hausa	49.8	6,543	78.4	59.2	37.5	19.6	6.7	3,260
Igbo	91.0	923	75.5	32.1	20.1	9.9	3.5	839
Yoruba	86.8	1,096	75.2	37.5	23.4	9.8	4.7	952
Other ethnic group	68.4	2,985	74.2	43.4	29.1	11.9	5.5	2,043

Table CH.25: Intermittent preventive treatment for malaria (continued)

Percentage of women age 15-49 years who had a live birth during the two years preceding the survey and who received intermittent preventive treatment (IPT) for malaria during pregnancy at any antenatal care visit, Nigeria, 2016-17

Percentage of women who had a live birth in the last two years preceding the survey and who received antenatal care (ANC)	Percentage of pregnant women:						
	Number of women who had a live birth in the last two years preceding the survey and who received antenatal care (ANC)	Who took any medicine to prevent malaria during pregnancy	who took SP/Fansidar at least once during an ANC visit and in total took:				Number of women with malaria at any antenatal care visit
		At least once	more than once	more than once ¹	Four or more times	Two or Three times	Two years and more

Total	61.4	11,547	76.4	48.5	31.1	14.9	5.7	7,094
State								
Abia	90.7	99	86.1	17.6	12.7	6.0	1.3	90
Adamawa	72.6	264	71.4	54.1	33.4	11.1	3.0	192
Akwa Ibom	80.5	228	81.6	48.8	32.4	8.5	2.4	183
Anambra	98.3	140	74.9	24.6	11.1	4.8	0.9	138
Bauchi	55.3	618	73.9	57.8	40.9	22.4	12.6	342
Bayelsa	61.5	73	83.0	57.2	39.2	17.7	7.3	45
Benue	65.4	271	51.2	20.9	11.7	4.8	1.4	177
Borno	85.5	692	75.2	65.3	45.3	23.1	5.0	592
Cross River	74.1	162	91.0	32.5	18.3	3.8	1.7	120
Delta	76.7	173	77.0	39.2	24.6	8.7	2.0	133
Ebonyi	71.2	111	66.3	39.5	30.5	16.6	3.9	79
Edo	90.5	101	83.7	63.1	40.7	18.7	5.5	91
Ekiti	83.3	54	48.0	25.7	15.3	5.8	4.2	45
Enugu	93.0	105	83.2	32.1	20.5	7.9	2.6	98
Gombe	56.1	236	77.3	38.2	23.3	10.9	2.2	132
Imo	95.7	164	68.9	25.9	19.2	10.0	6.2	157
Jigawa	41.1	595	70.3	61.4	26.5	15.3	9.4	244
Kaduna	66.6	663	77.3	52.2	27.3	20.5	0.8	441
Kano	57.6	1,038	80.3	67.6	40.6	16.5	6.0	598
Katsina	41.5	916	78.8	67.4	46.4	22.3	12.7	380
Kebbi	32.0	398	78.2	42.1	26.2	15.7	4.6	128
Kogi	78.3	133	73.5	35.9	30.3	10.4	5.7	104
Kwara	68.1	115	54.0	33.6	11.2	6.8	2.2	78
Lagos	91.2	429	78.2	39.8	27.5	8.9	1.8	391
Nasarawa	62.2	244	86.0	39.0	27.8	17.6	9.0	152
Niger	46.7	527	69.1	41.4	26.3	4.7	1.1	246
Ogun	84.7	132	79.3	32.2	26.5	14.6	7.4	112
Ondo	84.7	163	86.9	41.4	26.1	19.1	13.6	138
Osun	90.9	161	59.3	36.5	17.6	9.5	6.5	146
Oyo	86.3	322	77.3	33.8	22.6	4.7	1.3	278
Plateau	61.3	392	86.5	57.8	43.3	24.8	14.1	240
Rivers	85.2	163	85.7	17.1	8.8	4.0	1.0	139
Sokoto	33.9	409	67.4	26.9	20.5	9.1	3.4	139
Taraba	44.5	173	78.7	43.3	34.7	26.5	14.4	77
Yobe	38.6	410	79.0	77.5	37.5	13.7	4.5	159
Zamfara	37.0	583	88.6	66.4	53.7	36.3	16.6	216
FCT Abuja	82.3	89	66.9	32.6	19.5	7.2	2.4	73

1

MICS indicator 3.25 - Intermittent preventive treatment for malaria

Total	2.4	1.1	1.0	6.4	32.3	11.7	0.6	2.4	0.4	5.9	18.5	1.6	1.5	2.3	10.4	0.0	0.9	0.5	100.0	64.1	182,165
Geopolitical zone																					
North Central	1.5	0.5	0.7	5.2	25.9	17.0	0.8	3.2	0.3	3.6	11.9	3.1	0.8	0.5	23.4	0.0	1.4	0.1	100.0	58.7	30,688
North East	1.7	1.6	0.7	9.3	32.8	4.8	0.3	0.6	0.0	0.6	26.1	1.9	3.2	6.8	7.9	0.0	0.2	1.6	100.0	52.4	36,964
North West	4.0	1.5	1.5	6.7	26.8	14.7	0.7	0.1	0.1	2.5	31.1	1.4	1.2	2.4	4.3	0.0	0.5	0.4	100.0	58.6	61,155
South East	0.8	0.4	1.2	2.5	52.3	3.1	1.3	10.0	0.3	8.2	1.1	2.7	3.8	0.8	9.6	0.0	1.5	0.4	100.0	80.1	12,708
South South	2.5	1.5	0.5	6.7	47.8	4.5	0.3	2.8	1.1	7.9	3.6	0.3	0.2	0.1	18.8	0.1	1.3	0.1	100.0	75.5	17,393
South West	1.0	0.5	0.9	4.2	31.6	17.6	0.5	5.7	1.6	23.6	2.4	0.3	0.5	0.1	7.2	0.0	2.1	0.1	100.0	87.3	23,257
Residence																					
Urban	4.8	2.3	1.7	7.9	35.4	11.5	0.5	2.8	1.0	15.0	4.9	0.4	2.6	4.2	2.0	0.0	1.7	1.3	100.0	82.9	61,430
Rural	1.1	0.6	0.6	5.6	30.6	11.8	0.7	2.2	0.1	1.3	25.4	2.3	1.0	1.4	14.6	0.0	0.5	0.1	100.0	54.6	120,735
Education of household head																					
None	1.3	0.7	0.9	5.3	29.4	12.2	0.9	2.4	0.0	1.4	25.1	2.1	0.8	1.5	15.3	0.0	0.4	0.2	100.0	54.6	39,653
Non-formal	1.6	0.8	0.8	7.7	27.5	10.5	0.6	0.2	0.0	0.5	34.3	2.2	1.9	3.7	6.6	0.0	0.1	0.9	100.0	50.2	36,506
Primary	1.2	0.8	1.0	6.5	35.6	11.6	0.7	3.8	0.1	4.2	14.8	2.0	1.6	1.6	13.7	0.0	0.8	0.3	100.0	65.3	34,678
Secondary	2.3	1.1	1.2	6.3	35.4	12.6	0.5	3.1	0.4	10.5	9.9	1.2	1.6	2.0	9.7	0.0	1.8	0.6	100.0	73.3	43,819

Higher	6.6	2.6	1.0	6.1	33.6	11.1	0.3	2.5	1.9	14.7	6.1	0.5	2.0	3.4	5.2	0.1	1.6	0.7	100.0	80.4	27,166
Missing/Don't know	0.2	2.9	0.0	17.8	30.6	12.4	0.9	5.5	0.0	1.8	13.0	3.7	0.0	0.0	10.1	0.0	0.0	1.2	100.0	72.1	344

Table WS.1: Use of improved water sources continued

Percent distribution of household population according to main source of drinking water and percentage of household population using improved drinking water sources, Nigeria, 2016 -17

	Main source of drinking water																		Total	Percentage using improved sources of drinking water ¹	Number of household members
	Improved sources									Unimproved sources											
	Piped water			Public tap/stand-pipe	Tube-well/borehole	Protected well	Protected spring	Rain water collection	Bottled water ^a	Sachet water	Unprotected well	Unprotected spring	Tanker truck	Cart with tank/drum	Surface water	Bottled water ^a	Sachet water	Other			
Into dwelling	Into yard/compound/plot	To neighbour																			
Total	2.4	1.1	1.0	6.4	32.3	11.7	0.6	2.4	0.4	5.9	18.5	1.6	1.5	2.3	10.4	0.0	0.9	0.5	100.0	64.1	182,165
Wealth index quintile																					
Poorest	0.5	0.3	0.3	5.1	22.8	7.8	0.7	0.2	0.0	0.0	42.9	3.2	0.1	0.1	15.9	0.0	0.0	0.0	100.0	37.7	36,427
Second	0.9	0.6	0.4	6.6	27.9	14.1	0.6	1.4	0.0	0.0	27.6	2.4	0.8	0.7	15.8	0.0	0.0	0.1	100.0	52.5	36,454
Middle	0.8	0.7	0.9	7.1	31.0	14.8	1.0	3.4	0.0	0.6	16.5	1.6	2.5	4.0	13.8	0.0	0.3	1.0	100.0	60.2	36,404
Fourth	2.1	1.0	2.0	8.9	41.6	13.8	0.6	4.4	0.1	4.3	4.6	0.9	2.2	5.6	5.7	0.0	1.5	0.7	100.0	78.9	36,449
Richest	7.5	3.1	1.3	4.3	38.0	7.9	0.2	2.5	2.0	24.6	0.8	0.1	2.0	1.4	0.7	0.1	2.8	0.8	100.0	91.3	36,432
Ethnicity of household head																					
Hausa	3.2	1.5	1.3	7.4	28.9	10.9	0.6	0.4	0.1	1.6	29.1	1.8	1.9	3.9	6.0	0.0	0.4	0.9	100.0	55.9	90,060
Igbo	1.5	0.6	1.2	3.4	46.9	3.9	0.9	7.6	1.1	14.6	2.2	2.0	2.8	0.6	8.4	0.0	2.0	0.3	100.0	81.7	18,007

Yoruba	1.0	0.6	0.8	4.7	34.7	19.4	0.7	6.1	1.1	20.1	2.7	0.2	0.6	0.3	5.3	0.0	1.6	0.2	100.0	89.1	21,721
Other ethnic group	1.7	0.9	0.5	6.4	32.0	12.5	0.6	2.4	0.4	4.4	12.3	1.8	0.9	1.1	20.8	0.1	1.1	0.2	100.0	61.8	52,376
<i>MICS indicator 4.1; MDG indicator 7.8 - Use of improved drinking water sources</i>																					
^a <i>Households using bottled water as the main source of drinking water are classified into improved or unimproved drinking water users according to the water source used for other purposes such as cooking and handwashing.</i>																					

Table WS.1: Use of improved water sources (continued)

Percent distribution of household population according to main source of drinking water and percentage of household population using improved drinking water sources, Nigeria, 2016 -17

	Main source of drinking water																	Percentage using improved sources of drinking water ^{Total}	Number of household		
	Improved				Unimproved sources																
	Piped water		To neighbour	Public tap/stand-pipe	Tube-well/borehole	Protected well	Protected spring	Rain water collection	Bottled water ^a	Satchet water	Unprotected well	Unprotected spring	Tanker truck	Cart with tank/drum	Surface water	Bottled water ^a	Satchet water			Other	
Into dwelling	Into yard/compound/plot																				
Total	2.4	1.1	1.0	6.4	32.3	11.7	0.6	2.4	0.4	5.9	18.5	1.6	1.5	2.3	10.0	0.9	0.5	100.0	64.1	182,165	
State																					
Abia	3.1	0.7	7.1	0.8										0.0	13.7	0.0	0.6	0.2	100.0	83.5	1,826
Adamawa	2.0	0.5	0.0	6.0	64.0	0.2	0.5	2.4	0.6	4.1	0.0	0.6	1.4	4.7	19.0	0.0	0.3	0.0	100.0	53.9	4,379
Akwa Ibom	1.1	0.7	0.0	2.7	68.2	1.1	0.0	2.0	0.6	3.9	1.6	0.4	0.0	0.0	17.0	0.1	0.3	0.0	100.0	80.3	3,893
Anambra	1.1	0.5	0.6	0.7	59.6	1.0	0.5	3.5	0.4	16.6	0.6	2.5	2.6	0.6	7.0	0.0	1.7	0.0	100.0	84.4	2,965
Bauchi	1.1	1.5	0.7	7.4	40.4	7.2	0.4	0.7	0.0	0.8	32.0	1.5	1.0	0.5	4.0	0.0	0.2	0.5	100.0	60.2	8,746
Bayelsa	0.5	1.3	0.9	14.5	20.4	0.9	0.0	13.4	0.4	8.3	3.6	0.0	0.0	0.1	33.0	0.0	2.8	0.0	100.0	60.6	1,279
Benue	0.0	0.1	1.0	1.8	7.8	45.1	0.9	6.5	0.0	1.1	8.3	0.1	0.4	0.3	25.9	0.2	0.3	0.1	100.0	64.3	5,012
Borno	0.0	2.4	0.8	11.6	29.4	2.8	0.0	0.0	0.0	0.0	21.7	0.4	4.7	19.0	2.0	0.0	0.0	4.7	100.0	47.0	11,063
Cross River	2.4	1.3	0.4	3.4	35.2	7.2	0.4	2.8	0.0	0.8	0.5	0.7	0.5	0.2	43.8	0.0	0.3	0.0	100.0	53.9	3,233
Delta	3.3	0.9	1.5	7.1	49.0	7.1	0.1	2.2	0.4	7.8	8.6	0.2	0.2	0.0	10.5	0.0	1.2	0.0	100.0	79.4	2,921
Ebonyi	0.0	0.0	0.0	0.2	44.6	5.2	1.9	20.4	0.1	3.9	4.3	4.3	0.3	0.0	14.2	0.1	0.2	0.2	100.0	76.4	2,248
Edo	4.3	0.4	0.5	2.0	55.5	4.9	0.6	2.9	0.4	16.5	0.3	0.0	0.8	0.0	10.0	0.0	0.8	0.0	100.0	87.9	2,339

Ekiti	2.2	0.8	0.2	13.8	27.2	25.2	1.4	2.0	1.0	10.5	1.2	0.5	0.5	0.2	11.7	0.1	1.4	0.0	100.0	84.4	1,128
Enugu	0.3	0.7	0.1	3.1	13.4	8.6	3.7	21.3	0.1	8.0	0.9	6.1	15.3	3.4	10.3	0.0	4.7	0.0	100.0	59.2	2,399
Gombe	3.2	1.7	0.2	3.4	23.6	5.7	0.9	0.1	0.0	0.6	41.5	4.7	2.5	1.2	10.2	0.0	0.7	0.0	100.0	39.2	3,291
Imo	0.3	0.0	0.3	6.1	72.9	1.1	0.3	4.8	0.2	6.2	0.3	0.6	0.1	0.0	5.3	0.0	0.3	1.1	100.0	92.2	3,270
Jigawa	2.1	4.7	2.4	11.4	56.1	1.8	0.3	0.1	0.0	0.5	16.3	0.7	1.0	2.0	0.2	0.0	0.0	0.5	100.0	79.4	8,019
Kaduna	2.2	0.8	0.1	1.4	15.9	30.7	1.0	0.2	0.2	8.7	33.4	1.0	0.4	1.0	2.0	0.0	0.9	0.2	100.0	61.1	10,418
Kano	6.4	1.0	1.2	6.2	31.1	8.6	1.1	0.0	0.2	2.1	29.5	0.7	3.0	5.8	1.5	0.0	0.8	0.7	100.0	57.9	13,560
Katsina	4.6	0.9	2.7	9.0	23.8	17.7	0.4	0.1	0.1	1.4	21.2	1.8	0.5	1.8	13.3	0.1	0.5	0.2	100.0	60.8	10,941
Kebbi	3.9	0.8	0.8	8.9	12.8	26.3	1.3	0.0	0.0	0.5	39.3	2.7	0.3	0.2	2.1	0.0	0.0	0.0	100.0	55.3	5,391
Kogi	0.3	0.2	0.4	7.2	36.6	13.4	1.3	7.4	0.3	3.2	3.1	1.4	2.7	0.0	21.3	0.0	0.7	0.4	100.0	70.2	3,152
Kwara	0.9	0.7	0.1	3.4	61.9	12.3	0.4	1.3	0.1	4.7	3.7	0.4	1.6	0.1	8.2	0.0	0.3	0.0	100.0	85.8	2,709

Table WS.1: Use of improved water sources (continued)

Percent distribution of household population according to main source of drinking water and percentage of household population using improved drinking water sources, Nigeria, 2016 -17

	Piped water			Improved sources		Unimproved sources							Percentage using improved sources of total household population	Number of household					
	Into dwelling	Into yard/compound/plot	To neighbour	Public tap/stand-pipe	Tube-well/borehole	Protected well	Rain water collection	Bottled water ^a	Satchet water	Unprotected well/spring	Tanker truck	Cart with tank/drum			Surface water/Bottled water ^a	Satchet water	Other		
Total	2.4	1.1	1.0	6.4	32.3	11.7	0.6	2.4	0.5	18.6	1.1	1.5	2.3	10.0	0.9	0.5	100.0	64.1	182,165
Lagos	1.7	1.0	1.3	2.3	35.6	1.5	0.2	4.3	45.6	0.7	0.0	0.8	0.2	0.0	4.6	0.0	100.0	93.6	7,576
Nasarawa	0.2	0.1	0.1	0.7	29.1	16.9	2.2	3.7	0.1	1.6	16.4	4.0	0.3	22.0	0.2	0.0	100.0	54.8	3,792
Niger	1.7	0.2	0.7	8.4	27.8	8.4	0.2	2.3	0.3	3.1	14.4	4.0	0.6	26.0	0.7	0.0	100.0	52.9	7,954
Ogun	0.7	0.9	3.1	5.2	49.5	11.0	0.4	2.1	0.0	15.2	3.8	0.0	0.0	7.0	0.2	0.0	100.0	88.6	2,317
Ondo	0.3	0.0	0.1	2.9	25.9	27.9	0.9	11.0	10.1	2.0	0.0	0.0	0.1	16.0	0.4	0.0	100.0	79.6	3,471
Osun	0.5	0.5	1.0	7.0	29.8	28.2	0.4	10.0	11.0	2.8	0.0	0.0	0.0	6.0	2.0	0.0	100.0	88.5	3,257
Oyo	0.4	0.0	0.0	3.8	23.9	28.2	1.0	9.7	0.0	15.6	4.1	0.0	0.2	10.0	0.8	0.4	100.0	82.8	5,508
Plateau	2.5	1.0	0.9	5.4	12.7	12.8	0.8	0.4	0.0	5.8	19.3	5.0	0.4	27.0	4.4	0.0	100.0	42.9	6,581
Rivers	3.1	3.5	0.2	13.7	40.8	4.8	0.4	0.5	3.1	12.7	6.4	0.0	0.1	5.0	3.1	0.6	100.0	83.5	3,729
Sokoto	3.7	0.6	2.0	10.9	11.4	2.7	0.2	0.0	0.0	1.2	62.0	0.0	1.4	1.0	0.4	0.7	100.0	32.6	5,164
Taraba	2.9	0.4	1.9	1.1	11.5	13.0	1.2	4.6	0.0	1.4	20.7	7.1	0.7	31.0	0.2	0.0	100.0	38.2	2,974
Yobe	3.7	1.4	0.6	16.9	37.4	2.9	0.2	0.0	0.0	0.1	26.3	1.4	1.5	2.0	0.0	0.5	100.0	63.2	6,511

Zamfara	3.5	1.8	1.1	2.5	27.6	13.1	0.3	0.6	0.	1.0	33.	3.1	1.5	1.8	7.0	0.1	0.3	0.4	100.	51.5	7,663	
FCT Abuja	7.3	2.8	1.9	9.9	39.4	2.0	0.0	1.5	2.	8.6	0.	0.3	7	3	3.9	12.0	0.0	2.6	0.6	100.	75.6	1,489

¹ MICS indicator 4.1; MDG indicator 7.8 - Use of improved drinking water sources

^a Households using bottled water as the main source of drinking water are classified into improved or unimproved drinking water users according to the water source used for other purposes such as cooking and handwashing

Table WS.2: Household water treatment

Percentage of household population by drinking water treatment method used in the household, and for household members living in households where an unimproved drinking water source is used, the percentage who are using an appropriate treatment method, Nigeria, 2016-17

	Water treatment method used in the household										Percentage of household members in households using unimproved drinking water sources		
	None	Boil	Waterguard	a cloth	filter	infection	settle	alum	tablet	Other	members in households water treatment method ¹	Number of household through water dis-	and Add water
Total	88.5	2.4	1.6	3.9	0.9	0.0	1.4	2.3	0.2	0.5	182,165	2.3	65,339
Geopolitical zone													
North Central	88.1	2.3	1.4	3.9	1.0	0.0	1.5	3.4	0.2	0.3	30,688	1.9	12,689
North East	93.4	0.5	0.7	4.2	0.5	0.0	0.2	0.7	0.3	0.1	36,964	1.6	17,602
North West	88.9	1.3	0.7	5.6	0.9	0.0	2.2	1.8	0.2	0.1	61,155	1.9	25,301
South East	89.4	5.5	1.3	1.0	2.1	0.2	1.1	1.1	0.1	0.4	12,708	6.2	2,527
South South	86.7	5.1	1.7	1.3	1.4	0.1	1.3	2.9	0.3	0.9	17,393	5.1	4,261
South West	81.2	4.7	5.6	2.4	0.3	0.0	1.0	5.0	0.2	2.0	23,257	3.7	2,959
Residence													
Urban	86.6	4.1	3.3	2.9	0.9	0.0	1.1	2.4	0.4	0.8	61,430	4.6	10,518
Rural	89.5	1.5	0.7	4.4	0.9	0.0	1.5	2.3	0.1	0.3	120,735	1.8	54,821
Main source of drinking water													
Improved	88.6	3.3	2.2	3.0	0.9	0.0	1.0	1.8	0.2	0.6	116,826		
Unimproved	88.4	0.8	0.5	5.5	0.9	0.0	2.0	3.2	0.2	0.3	65,339	2.3	65,339
Education of household head													

None	92.5	1.0	0.3	3.6	0.7	0.0	1.2	1.6	0.2	0.2	39,653	1.8	18,014
Non-formal	92.2	0.7	0.1	4.1	0.6	0.0	1.5	1.2	0.2	0.2	36,506	1.3	18,188
Primary	87.7	2.4	1.3	4.1	0.8	0.0	1.4	2.9	0.1	0.5	34,678	2.4	12,018
Secondary	86.2	3.2	2.2	4.0	1.0	0.0	1.3	2.8	0.1	0.8	43,819	2.4	11,704
Higher	82.6	5.4	4.7	3.5	1.5	0.1	1.4	3.3	0.4	0.6	27,166	6.7	5,319
Missing/Don't know	87.5	1.0	0.0	7.8	0.0	0.0	1.0	3.6	0.0	0.0	344	0.0	96
Wealth index quintile													
Poorest	93.8	0.3	0.1	4.1	0.4	0.0	0.7	0.9	0.0	0.0	36,427	0.8	22,691
Second	90.0	0.7	0.2	5.6	0.8	0.0	1.6	2.0	0.0	0.3	36,454	1.5	17,298
Middle	87.1	1.2	0.9	5.0	1.1	0.0	2.4	3.4	0.2	0.3	36,404	3.5	14,484
Fourth	88.1	2.5	1.9	3.0	0.9	0.0	1.0	3.1	0.3	0.8	36,449	4.4	7,697
Richest	83.6	7.3	4.8	1.7	1.2	0.1	1.1	2.3	0.4	0.9	36,432	6.2	3,169
Ethnicity of household head													
Hausa	91.5	1.1	0.7	4.0	0.7	0.0	1.6	1.5	0.3	0.1	90,060	1.6	39,673
Igbo	88.5	6.4	1.6	1.3	1.7	0.1	0.9	1.1	0.1	0.6	18,007	5.7	3,295
Yoruba	81.2	4.1	5.8	2.3	0.4	0.0	1.4	5.5	0.3	2.0	21,721	5.3	2,369
Other ethnic group	86.4	2.6	1.4	5.3	1.2	0.0	1.1	2.9	0.1	0.4	52,376	2.6	20,002
<i>1 MICS indicator 4.2 - Water treatment</i>													
<i>na: not applicable</i>													

Table WS.2: Household water treatment (continued)

Percentage of household population by drinking water treatment method used in the household, and for household members living in households where an unimproved drinking water source is used, the percentage who are using an appropriate treatment method, Nigeria, 2016-17

	Water treatment method used in the household											Percentage of household members in unimproved drinking water sources and unimproved chlorine method ¹	Number of household members in households using through water sources	
	None	Boil	Add bleach/ Solar dis- /Waterguard	Strain and a cloth	Use Add filter	stand water infection	Let it Add household settle	Number of alum	using an appropriate water treatment tablet	Other	Missing/DK			
Total	88.5	2.4	1.6	3.9	0.9	0.0	1.4	2.3	0.2	0.5	0.0	182,165	2.3	65,339
State														
Abia	87.9	8.7	1.4	1.1	1.3	0.1	0.7	0.1	0.0	0.0	0.0	1,826	6.1	301
Adamawa	95.9	1.3	1.5	0.8	0.3	0.1	0.0	0.5	0.2	0.5	0.0	4,379	1.3	2,019
Akwa Ibom	87.2	6.8	2.4	0.4	0.4	0.5	0.1	0.4	0.7	2.0	0.0	3,893	4.6	767
Anambra	95.7	3.2	0.9	0.1	0.5	0.0	0.0	0.2	0.0	0.3	0.0	2,965	2.4	461
Bauchi	97.6	0.4	0.8	0.2	0.4	0.0	0.2	0.4	0.0	0.0	0.0	8,746	1.4	3,479
Bayelsa	59.4	4.2	2.3	0.8	0.6	0.0	4.1	29.6	0.5	3.5	0.0	1,279	6.0	504
Benue	75.2	1.1	3.3	17.4	3.3	0.0	0.0	1.3	0.0	0.0	0.0	5,012	5.7	1,788
Borno	92.0	0.0	0.8	6.6	0.1	0.0	0.0	0.2	0.9	0.0	0.0	11,063	1.7	5,868
Cross River	84.2	3.7	1.3	5.9	4.5	0.0	2.1	0.7	0.2	0.2	0.0	3,233	6.9	1,490
Delta	92.0	3.2	1.6	0.1	0.2	0.0	0.6	2.9	0.0	0.3	0.1	2,921	3.1	601
Ebonyi	83.3	1.7	1.6	3.7	5.1	0.5	4.4	4.0	0.0	1.1	0.0	2,248	12.1	531
Edo	95.6	1.4	1.8	0.1	0.5	0.1	0.0	0.4	0.3	0.0	0.0	2,339	2.7	282
Ekiti	72.8	2.7	4.4	3.0	0.5	0.0	0.3	16.7	0.2	3.5	0.9	1,128	5.2	176
Enugu	90.1	4.3	0.8	1.0	1.5	0.0	0.6	1.8	0.0	0.9	0.0	2,399	5.5	978
Gombe	91.5	1.7	0.4	5.1	0.3	0.0	0.3	1.9	0.0	0.0	0.0	3,291	2.8	2,001
Imo	88.1	9.4	1.6	0.1	2.2	0.2	0.4	0.1	0.3	0.0	0.0	3,270	3.4	255
Jigawa	94.1	1.6	0.0	3.4	0.7	0.0	1.0	0.3	0.0	0.0	0.0	8,019	1.6	1,651
Kaduna	79.5	2.3	2.4	7.2	3.0	0.0	7.6	2.6	0.8	0.1	0.0	10,418	7.0	4,048
Kano	91.1	0.7	0.7	3.6	0.1	0.0	1.7	3.0	0.1	0.1	0.0	13,560	0.7	5,706
Katsina	92.3	0.7	0.0	6.2	0.5	0.0	0.0	1.0	0.0	0.0	0.1	10,941	0.7	4,293
Kebbi	89.6	2.1	0.6	4.7	1.2	0.0	0.6	1.5	0.2	0.1	0.0	5,391	1.4	2,407

Table WS.2: Household water treatment (continued)

Percentage of household population by drinking water treatment method used in the household, and for household members living in households where an unimproved drinking water source is used, the percentage who are using an appropriate treatment method, Nigeria, 2016-17

State	Water treatment method used in the household												Percentage of household members in households using unimproved drinking water sources and using an appropriate household water treatment method ¹	Number of household members in unimproved drinking water sources	
	None	Boil	Add bleach/chlorine/Waterguard	Strain through a cloth	Use water filter	Solar disinfection	Let it stand and settle	Add alum	Add water tablet	Other	Missing/DK				
Kogi	85.7	1.1		1.3	1.6	0.5	0.0	0.0	11.5	0.3	0.5	0.0	3,152	1.7	938
Kwara	90.4	0.2	2.0	0.7	0.7	0.0	5.4	3.6	0.6	0.0	0.0	2,709	0.0	385	Lagos 84.5 10.5 4.8 0.4 0.6 0.1 0.3 0.8 0.2 0.2 0.0 7,576 5.7 486
Nasarawa	93.9	1.7	0.4	1.5	0.2	0.0	0.4	2.4	0.0	0.1	0.0	3,792	0.3	1,713	Niger 92.5 2.5 0.1 1.4 1.0 0.0 0.7 2.8 0.4 0.6 0.0 7,954 1.8 3,745
Ogun	88.7	3.2		2.5	0.9	0.5	0.0	2.0	2.9	0.0	0.6	0.0	2,317	0.9	264
Ondo	79.8	0.9		9.1	1.7	0.3	0.0	0.1	6.7	0.2	1.3	1.2	3,471	2.5	709
Osun	78.6	2.9	5.9	2.8	0.1	0.0	0.1	8.5	0.7	4.2	0.2	3,257	4.2	375	Oyo 77.6 1.5 5.8 6.0 0.1 0.0 3.0 6.1 0.0 4.1 0.0 5,508 4.0 948
Plateau	87.8	4.6		2.0	1.2	0.2	0.0	3.5	3.1	0.1	0.2	0.0	6,581	1.0	3,757
Rivers	87.9	8.7		0.9	0.4	1.6	0.0	2.2	0.0	0.0	0.4	0.0	3,729	3.9	617
Sokoto	86.5	0.9		0.5	9.8	0.1	0.0	1.8	1.1	0.0	0.1	0.1	5,164	0.8	3,481
Taraba	94.4	1.0	0.1	2.0	0.3	0.0	0.4	2.3	0.0	0.0	0.0	2,974	0.6	1,838	Yobe 89.1 0.3 0.1 8.6 1.6 0.0 0.7 0.5 0.0 0.0 0.0 6,511 2.0 2,396 Zamfara 88.7 1.1 0.7 5.7 0.9 0.0 1.9 2.2 0.0 0.2 0.0 7,663 0.9 3,714
FCT Abuja	95.9	2.4		1.5	0.3	0.2	0.0	0.0	0.2	0.0	0.0	0.0	1,489	2.5	363

¹ MICS indicator 4.2 - Water treatment

na: not applicable

Table WS.3: Time to source of drinking water

Percent distribution of household population according to time to go to source of drinking water, get water and return, for users of improved and unimproved drinking water sources, Nigeria, 2016-17

	Time to source of drinking water										Number of household premises minutes or more know Total members
	Users of improved drinking water sources					Users of unimproved drinking water sources					
	Less than 30 minutes	30 minutes	More than 30 minutes	Don't know	Missing	Less than 30 minutes	30 minutes	More than 30 minutes	Don't know	Missing	
Total	22.4	32.7	7.7	1.3	9.4	16.7	8.0	1.7	100.0	182,165	
Geopolitical zone											
North Central	23.1	29.6	5.4	0.6	6.2	23.3	11.0	0.8	100.0	30,688	
North East	10.5	29.7	10.0	2.2	7.8	24.1	13.3	2.3	100.0	36,964	
North West	21.7	28.7	6.3	1.9	18.2	15.4	4.9	2.8	100.0	61,155	
South East	27.4	37.2	13.6	1.9	3.4	7.5	7.5	1.4	100.0	12,708	
South South	26.4	40.0	8.9	0.2	1.5	15.5	7.3	0.2	100.0	17,393	
South West	36.2	44.4	6.5	0.2	2.3	5.8	4.2	0.4	100.0	23,257	
Residence											
Urban	35.7	37.9	8.1	1.2	5.1	7.1	2.5	2.5	100.0	61,430	
Rural	15.6	30.1	7.4	1.4	11.6	21.6	10.8	1.3	100.0	120,735	
Education of household head											
None	15.5	31.1	6.2	1.7	10.3	22.4	11.1	1.6	100.0	39,653	
Non-formal	12.5	28.6	7.4	1.7	17.7	20.9	8.2	3.0	100.0	36,506	
Primary	19.2	35.4	9.9	0.9	7.5	17.2	8.8	1.2	100.0	34,678	
Secondary	26.4	38.0	7.9	1.0	5.9	13.1	6.6	1.2	100.0	43,819	
Higher	43.2	28.8	7.0	1.4	5.2	8.2	4.5	1.7	100.0	27,166	
Missing/Don't know	11.4	48.6	8.8	3.3	5.9	16.0	3.8	2.2	100.0	344	
Wealth index quintile											
Poorest	6.1	24.7	6.1	0.8	15.4	31.2	13.9	1.8	100.0	36,427	
Second	12.2	31.1	7.7	1.5	14.2	22.1	10.2	1.0	100.0	36,454	
Middle	17.8	31.6	8.7	2.1	10.3	18.5	9.5	1.5	100.0	36,404	
Fourth	25.6	41.1	10.6	1.6	4.3	9.0	5.1	2.7	100.0	36,449	
Richest	50.1	35.2	5.3	0.7	3.0	2.9	1.3	1.6	100.0	36,432	
Ethnicity of household head											
Hausa	17.7	29.1	7.0	2.1	14.9	19.2	7.3	2.7	100.0	90,060	
Igbo	30.3	38.9	11.1	1.4	3.2	7.8	6.0	1.2	100.0	18,007	
Yoruba	37.9	44.0	7.0	0.2	2.4	5.4	2.6	0.5	100.0	21,721	
Other ethnic group	21.3	32.2	7.9	0.4	5.1	20.4	12.0	0.7	100.0	52,376	

Table WS.3: Time to source of drinking water (continued)

Percent distribution of household population according to time to go to source of drinking water, get water and return, for users of improved and unimproved drinking water sources, Nigeria, 2016 -17

Time to source of drinking water			
Users of improved drinking water sources		Users of unimproved drinking water sources	
Number of	Water on Less than 30 minutes	Missing /	Water on Less than 30 minutes
or more	Don't know	household premises	30 minutes or more
Don't know	Total members	30 minutes or more	Don't know

Total	22.4	32.7	7.7	1.3	9.4	16.7	8.0	1.7	100.0	182,165
State										
Abia	26.6	44.1	11.0	1.8	1.2	6.4	6.9	2.0	100.0	1,826
Adamawa	11.1	32.9	5.2	4.6	5.5	27.3	11.6	1.7	100.0	4,379
Akwa Ibom	18.3	43.0	18.9	0.0	0.8	7.5	11.4	0.1	100.0	3,893
Anambra	21.6	49.4	7.9	5.5	3.7	6.2	4.2	1.5	100.0	2,965
Bauchi	13.6	37.6	9.1	0.0	12.1	17.3	10.2	0.2	100.0	8,746
Bayelsa	24.0	32.0	4.5	0.0	2.3	29.7	6.9	0.5	100.0	1,279
Benue	37.5	19.2	6.6	1.1	5.7	15.5	12.2	2.2	100.0	5,012
Borno	6.1	21.8	15.5	3.5	5.4	28.6	16.0	3.1	100.0	11,063
Cross River	13.2	30.4	10.3	0.0	1.0	27.0	18.1	0.0	100.0	3,233
Delta	31.7	44.6	2.3	0.9	1.8	17.2	1.2	0.3	100.0	2,921
Ebonyi	29.9	24.4	22.0	0.2	3.7	8.3	11.5	0.1	100.0	2,248
Edo	38.1	45.3	4.6	0.0	0.8	8.8	2.3	0.1	100.0	2,339
Ekiti	26.2	44.6	12.5	1.0	1.2	7.2	6.7	0.5	100.0	1,128
Enugu	34.4	11.8	12.0	1.0	8.2	15.0	13.6	3.9	100.0	2,399
Gombe	9.6	21.3	6.3	2.0	9.1	33.8	11.6	6.3	100.0	3,291
Imo	26.2	49.8	15.8	0.4	0.7	3.4	3.7	0.0	100.0	3,270
Jigawa	14.3	53.3	9.6	2.1	6.8	10.1	0.9	2.8	100.0	8,019
Kaduna	37.7	21.2	2.1	0.2	34.1	2.8	1.4	0.5	100.0	10,418
Kano	20.9	27.2	5.7	4.1	18.5	14.5	2.5	6.6	100.0	13,560
Katsina	17.1	31.0	11.0	1.7	9.6	16.4	12.3	1.0	100.0	10,941
Kebbi	31.8	19.3	2.5	1.8	26.4	14.6	1.7	1.9	100.0	5,391
Kogi	22.1	33.5	12.5	2.1	1.6	18.8	8.9	0.5	100.0	3,152
Kwara	34.9	43.9	6.9	0.0	3.4	3.6	6.2	0.9	100.0	2,709
Lagos	45.0	45.9	2.5	0.3	2.8	2.8	0.4	0.4	100.0	7,576
Nasarawa	19.9	30.1	4.7	0.2	8.6	25.6	10.8	0.1	100.0	3,792
Niger	14.3	34.5	3.8	0.3	5.6	31.9	9.2	0.4	100.0	7,954
Ogun	27.9	57.1	3.6	0.1	1.3	8.0	2.1	0.0	100.0	2,317
Ondo	38.6	32.4	8.5	0.1	3.3	8.1	9.1	0.0	100.0	3,471
Osun	30.0	50.0	8.5	0.0	2.0	7.2	2.1	0.2	100.0	3,257
Oyo	31.9	41.1	9.6	0.2	2.0	6.2	7.8	1.1	100.0	5,508
Plateau	20.1	19.0	3.6	0.3	10.6	28.7	17.2	0.6	100.0	6,581
Rivers	35.6	41.1	6.8	0.0	2.4	11.9	1.9	0.4	100.0	3,729
Sokoto	10.8	16.8	3.2	1.7	14.0	44.3	6.0	3.2	100.0	5,164
Taraba	18.1	12.4	5.7	1.9	9.7	26.6	20.6	5.0	100.0	2,974
Yobe	10.4	42.6	8.8	1.5	6.2	17.8	11.8	0.9	100.0	6,511
Zamfara	16.3	27.5	7.4	0.4	17.3	19.5	9.5	2.2	100.0	7,663
FCT Abuja	23.9	49.9	1.7	0.1	1.2	18.3	3.2	1.7	100.0	1,489

Table WS.4: Person collecting water

Percentage of households without drinking water on premises, and percent distribution of households without drinking water on premises according to the person usually collecting drinking water used in the household, Nigeria, 2016-17

	Percentage of _____		Person usually collecting drinking water							Number of	
	households	households without	Adult woman	Female child under 15	Male child under 15	without drinking water on premises	households	know	Missing	Total	premises
Total	68.2	33,901	40	38.2	11.0	10.0	0.8	0.4	100.0	23,112	
Geopolitical zone											
North Central	70.0	5,435	64	20.7	9.5	4.8	0.3	0.2	100.0	3,803	
North East	82.9	5,581	22	48.7	15.2	12.0	1.5	0.5	100.0	4,627	
North West	61.4	9,128	21	51.4	10.6	15.0	1.3	0.8	100.0	5,603	
South East	68.4	3,132	46	34.8	9.6	8.8	0.7	0.4	100.0	2,143	
South South	71.1	4,281	46	34.6	10.5	8.4	0.1	0.1	100.0	3,042	
South West	61.4	6,344	54	28.7	9.2	7.2	0.2	0.2	100.0	3,893	
Residence											
Urban	58.9	12,421	39	38.0	10.8	9.4	1.7	0.8	100.0	7,318	
Rural	73.5	21,480	40	38.4	11.1	10.2	0.3	0.3	100.0	15,794	
Education of household head											
None	74.4	7,443	41	33.1	13.4	12.1	0.5	0.3	100.0	5,538	
Non-formal	71.3	5,269	23	51.2	11.6	12.6	1.3	0.5	100.0	3,759	
Primary	73.3	6,558	44	32.9	12.4	9.6	0.6	0.4	100.0	4,809	
Secondary	67.8	9,047	46	37.0	8.4	8.0	0.6	0.3	100.0	6,137	
Higher	51.1	5,526	39	42.8	9.0	7.1	1.0	0.8	100.0	2,822	
Missing /Don't know	79.4	58	29	44.5	12.3	14.3	0.0	0.0	100.0	46	
Wealth index quintile											
Poorest	79.9	5,592	31	43.4	12.3	13.0	0.1	0.2	100.0	4,468	
Second	75.5	6,328	39	37.1	13.1	10.0	0.5	0.2	100.0	4,778	
Middle	73.5	6,897	43	36.0	9.9	9.7	1.3	0.4	100.0	5,068	
Fourth	69.9	7,259	41	37.3	10.9	9.2	1.0	0.6	100.0	5,072	
Richest	47.6	7,825	44	38.0	8.5	7.7	0.7	0.8	100.0	3,727	
Ethnicity of household head											
Hausa	68.8	13,433	23	49.7	11.8	13.6	1.2	0.7	100.0	9,239	
Igbo	65.8	4,436	46	36.4	9.0	8.2	0.6	0.3	100.0	2,920	
Yoruba	60.7	5,873	54	26.3	10.3	8.5	0.3	0.3	100.0	3,565	
Other ethnic group	72.2	10,159	51	30.4	11.2	6.8	0.4	0.2	100.0	7,388	

Table WS.4: Person collecting water (continued)

Percentage of households without drinking water on premises, and percent distribution of households without drinking water on premises according to the person usually collecting drinking water used in the household, Nigeria, 2016-17

Percentage of households without drinking water on premises	Person usually collecting drinking water			Number of households without drinking water on premises
	Female	Male	child	
Number of households without drinking water on premises	Don't know	Misssing	Total	age 15

Total	68.2	33,901	39.6	38.2	11.0	10.0	0.8	0.4	100.0	23,112
State										
Abia	73.1	472	43.5	34.0	12.9	9.5	0.0	0.1	100.0	345
Adamawa	83.9	735	27.7	42.0	17.8	11.8	0.4	0.2	100.0	616
Akwa Ibom	80.2	844	39.2	37.0	14.1	9.8	0.0	0.0	100.0	677
Anambra	73.3	719	43.9	36.1	10.7	8.3	0.9	0.2	100.0	527
Bauchi	75.1	1,384	13.9	57.4	13.4	14.5	0.0	0.8	100.0	1,040
Bayelsa	74.6	308	46.6	39.2	6.9	7.1	0.0	0.1	100.0	230
Benue	56.0	987	65.7	20.9	9.0	4.3	0.2	0.0	100.0	553
Borno	90.3	1,493	15.8	53.5	19.3	10.7	0.7	0.0	100.0	1,348
Cross River	85.4	778	49.2	26.6	13.8	10.4	0.0	0.0	100.0	665
Delta	65.2	740	55.3	28.4	8.4	7.6	0.0	0.3	100.0	482
Ebonyi	66.0	535	54.9	23.1	12.4	9.2	0.1	0.4	100.0	353
Edo	61.6	654	51.0	34.4	9.1	5.1	0.4	0.0	100.0	403
Ekiti	72.2	351	55.5	27.2	9.4	6.8	0.7	0.5	100.0	254
Enugu	55.9	610	48.4	36.3	5.2	6.2	2.7	1.2	100.0	341
Gombe	82.7	529	17.4	43.8	17.3	19.9	1.5	0.1	100.0	437
Imo	72.5	796	41.6	40.3	7.7	10.2	0.0	0.2	100.0	577
Jigawa	79.9	1,147	10.3	51.2	14.2	22.6	1.4	0.3	100.0	916
Kaduna	31.2	1,646	57.6	19.8	11.3	11.2	0.0	0.0	100.0	513
Kano	62.3	1,894	19.5	48.1	8.8	17.8	3.7	2.1	100.0	1,181
Katsina	75.4	1,705	15.7	62.9	9.2	11.2	0.0	1.0	100.0	1,286
Kebbi	43.4	838	39.2	41.6	9.2	9.5	0.0	0.5	100.0	363
Kogi	74.4	649	66.4	17.2	9.5	6.0	0.2	0.8	100.0	482
Kwara	62.0	639	48.7	22.5	16.8	11.6	0.2	0.2	100.0	396
Lagos	51.9	1,974	48.7	37.4	8.2	5.1	0.4	0.1	100.0	1,025
Nasarawa	74.4	630	63.4	19.7	12.5	3.6	0.1	0.7	100.0	468
Niger	80.9	1,211	71.8	16.0	7.7	4.2	0.3	0.0	100.0	979
Ogun	72.0	608	58.6	19.3	13.5	8.6	0.0	0.0	100.0	438
Ondo	57.9	1,025	63.3	23.5	8.0	5.2	0.0	0.0	100.0	594
Osun	68.8	916	51.2	27.1	10.0	11.7	0.0	0.0	100.0	630
Oyo	64.8	1,470	55.1	28.5	8.5	7.2	0.3	0.5	100.0	952
Plateau	69.7	1,051	60.3	29.0	7.4	2.8	0.5	0.0	100.0	732
Rivers	61.3	957	40.9	44.6	6.6	7.9	0.0	0.0	100.0	586
Sokoto	76.5	820	20.2	53.3	9.4	15.6	0.8	0.7	100.0	628
Taraba	75.4	527	59.5	22.8	9.0	4.7	3.9	0.0	100.0	397
Yobe	86.3	914	22.4	50.1	10.8	10.5	4.3	1.9	100.0	788
Zamfara	66.4	1,078	10.6	62.5	13.0	12.5	1.3	0.0	100.0	716
FCT Abuja	71.4	270	70.0	20.5	5.9	3.5	0.0	0.1	100.0	193

Use of Improved Sanitation

Table WS.5: Types of sanitation facilities

Percent distribution of household population according to type of toilet facility used by the household, Nigeria, 2016-17

	Type of toilet facility used by household													Total	Number of household members
	Improved sanitation facility							Improved sanitation facility					Open defecation (no facility, bush, field)		
	Flush/Pour flush to:			Unknown place/not improved with pit latrine slab	Pit latrine	Ventilated latrine	Composting elsewhere	Flush/Pour flush to system tank	Pit latrine without slab/ open pit Bucket	Hanging toilet/ latrine	Other				
	Piped sewer latrine	Septic know where	Pit sure/Don't know												
Total	5.3	11.4	8.9	0.1	1.3	23.9	0.7	0.7	23.2	0.1	0.8	0.2	23.5	100.0	182,165
Geopolitical zone															
North Central														50.0	
North East	2.5	10.6	13.0	0.4	0.5	12.6	0.8	1.3	8.2	0.0	0.1	0.0		100.0	30,688
	2.1	2.2	4.9	0.0	0.5	39.5	0.1	0.4	31.6	0.0	0.3	0.0	18.2	100.0	36,964
North West	4.2	3.1	7.6	0.2	2.7	26.8	1.2	0.8	38.5	0.0	0.1	0.3	14.3	100.0	61,155
South East	13.1	21.9	7.2	0.1	0.2	18.3	0.6	0.6	14.6	0.0	1.2	0.1	22.0	100.0	12,708
South South	18.3	12.3	9.9	0.0	1.0	20.6	1.1	0.1	10.1	0.1	5.6	0.6	20.4	100.0	17,393
South West	3.1	42.5	13.0	0.0	0.3	11.4	0.0	0.2	4.0	0.3	0.6	0.3	24.1	100.0	23,257
Residence															
Urban														6.0	
Rural	10.6	25.9	15.1	0.2	1.4	25.6	0.4	1.0	13.4	0.1	0.4	0.0		100.0	61,430
	2.7	4.1	5.7	0.1	1.2	23.0	0.9	0.5	28.2	0.0	1.0	0.3	32.4	100.0	120,735
Education of household head															
None														37.1	
	1.7	3.2	4.5	0.0	1.6	21.4	0.6	0.3	28.6	0.1	0.7	0.3		100.0	39,653

Non-formal	1.0	1.3	7.4	0.0	1.5	28.8	0.7	0.8	39.6	0.1	0.2	0.2	18.4	100.0	36,506
Primary	4.0	10.0	8.9	0.2	1.0	24.1	0.9	0.4	20.9	0.1	1.1	0.4	28.1	100.0	34,678
Secondary	7.3	17.5	12.5	0.1	0.9	23.1	0.8	0.6	14.5	0.0	1.4	0.2	21.1	100.0	43,819
Higher	15.1	28.9	11.3	0.4	1.4	21.6	0.4	1.5	10.4	0.1	0.5	0.1	8.5	100.0	27,166
Missing /Don't know	0.2	10.6	6.3	0.0	0.0	36.6	0.0	0.0	27.9	0.0	0.0	0.0	18.4	100.0	344
Wealth index quintile															
Poorest													43.5		
Second	0.3	0.1	1.8	0.1	1.9	13.4	0.4	0.3	37.9	0.0	0.1	0.3		100.0	36,427
	0.1	0.2	4.8	0.1	1.1	22.5	1.2	0.4	36.2	0.0	0.8	0.4	32.3	100.0	36,454
Middle	1.1	2.0	7.5	0.2	1.3	32.2	1.2	0.6	26.8	0.1	1.1	0.2	25.5	100.0	36,404
Fourth	5.0	11.4	15.2	0.1	1.1	37.5	0.5	0.9	12.1	0.1	1.4	0.2	14.5	100.0	36,449
Richest	20.1	43.4	15.1	0.2	0.9	13.7	0.1	1.1	3.0	0.1	0.6	0.0	1.7	100.0	36,432
Ethnicity of household head															
Hausa	2.8												16.4		
		3.5	7.5	0.2	1.9	30.7	1.0	0.7	34.8	0.0	0.2	0.2		100.0	90,060
Igbo	13.9	25.8	10.4	0.1	0.3	16.2	0.5	0.7	12.5	0.1	0.9	0.1	18.6	100.0	18,007
Yoruba	4.2	38.0	13.8	0.0	0.6	13.1	0.0	0.4	4.7	0.3	0.8	0.3	23.8	100.0	21,721
Other ethnic group	7.1	9.1	8.6	0.1	0.7	19.2	0.4	0.7	14.6	0.0	1.9	0.3	37.2	100.0	52,376

Table WS.5: Types of sanitation facilities (continued)

Percent distribution of household population according to type of toilet facility used by the household, Nigeria, 2016-17

	Type of toilet facility used by household														Number of household members
	Improved sanitation facility							Unimproved sanitation facility							
	Flush/Pour flush to:							Pit			Open				
	Piped sewer with slab	Septic tank	Pit latrine	Unknown place/Don't improved else open	Ventilated pit latrine	Compos- somewhere	Flush/Pour flush to	Flush/Pour latrine without	Hanging	Open defecation (no know where latrine)	Total				
Total	5.3	11.4	8.9	0.1	1.3	23.9	0.7	0.7	23.2	0.1	0.8	0.2	23.5	100.0	182,165
State															
Abia	21.9	12.9	4.2	0.9	0.0	36.3	0.3	3.3	14.0	0.2	1.9	0.1	3.8	100.0	1,826
Adamawa	2.8	1.1	3.7	0.0	0.7	41.6		0.2	31.8	0.0	1.6	0.0	16.3	100.0	4,379
Akwa Ibom	10.3	9.1	0.6	0.0	0.5	56.3	0.2	0.0	14.0	0.0	0.8	0.3	7.3	100.0	3,893
Anambra	11.4	38.4	14.4	0.0	0.2	13.3	0.9	0.1	11.7	0.0	0.2	0.0	10.3	100.0	2,965
Bauchi	1.0	0.8	2.8	0.0	0.2	38.1	0.0	0.0	42.0	0.0	0.1	0.0	15.0	100.0	8,746
Bayelsa	9.9	16.9	3.2	0.1	0.0	0.2	0.0	1.2	1.5	0.2	33.0	2.7	31.2	100.0	1,279
Benue	2.3	9.0	10.6	0.0	0.0	7.9	0.0	3.4	14.6	0.0	0.2	0.1	51.2	100.0	5,012
Borno	1.4	5.4	8.0	0.0	0.3	59.2	0.6	0.9	21.0	0.0	0.0	0.0	3.8	100.0	11,063
Cross River	2.2	15.6	13.6	0.0	1.9	11.4	0.0	0.0	16.2	0.1	0.7	0.9	35.3	100.0	3,233
Delta	27.2	11.1	8.2	0.1	1.9	13.2	1.8	0.0	8.8	0.5	4.4	0.4	22.5	100.0	2,921
Ebonyi	4.8	3.7	3.2	0.0	0.5	6.1	1.7	0.3	27.6	0.0	4.8	0.4	45.6	100.0	2,248
Edo	20.5	26.0	11.2	0.0	0.4	15.5	2.9	0.0	12.1	0.0	0.0	0.0	13.9	100.0	2,339
Ekiti	9.5	16.9	10.7	0.0	0.4	13.0	0.2	0.0	10.3	0.0	0.1	0.1	39.0	100.0	1,128
Enugu	9.5	22.2	5.9	0.0	0.1	13.8	0.0	0.5	7.8	0.0	0.0	0.0	39.8	100.0	2,399
							0.4								

Gombe	2.9	0.1	3.4	0.1	1.0	39.2		0.1	33.6	0.0	0.0	0.0	19.5	100.0	3,291
Imo	18.1	24.1					0.0								
			6.0	0.0	0.4	24.6	0.0	0.0	13.5	0.0	0.0	0.0	13.3	100.0	3,270

Jigawa															
	1.1	1.4	11.1	0.1	0.6	22.3	0.0	2.1	36.1	0.0	0.4	1.7	23.0	100.0	8,019
Kaduna	10.2	3.4	7.4	0.2	4.1	26.1	0.1	0.1	38.0	0.0	0.2	0.0	10.3	100.0	10,418

Table WS.5: Types of sanitation facilities (continued)

Percent distribution of household population according to type of toilet facility used by the household, Nigeria, 2016-17

State	Type of toilet facility used by household														Number of household members
	Improved sanitation facility							Unimproved sanitation facility							
	Flush/Pour flush to:							Pit			Open				
	Piped sewer toilet	Septic else	Pit open	sure/Don't improved Bucket	Unknown place/not improved latrine	Ventilated Compos- somewhere	Other field)	Flush/Pour flush to toilet/	flush to facility, bush,	Pit without system	Hanging latrine know where	Open defecation pit latrine	(no with slab	Total	
Kano	4.6	6.3	15.9	0.3	1.3	30.3	4.6	1.1	30.9	0.0	0.0	0.0	4.6	100.0	13,560
Katsina	4.2	1.8	1.6	0.0	1.2	21.9	0.1	0.3	51.2	0.1	0.2	0.3	17.2	100.0	10,941
Kebbi	2.7	3.9	6.3	0.6	0.7	21.3	0.6	0.7	38.1	0.0	0.0	0.1	25.0	100.0	5,391
Kogi	1.4	11.8	7.8	0.1	0.4	11.1	0.0	0.5	4.2	0.0	0.1	0.1	62.5	100.0	3,152
Kwara	2.2	23.7	14.8	0.0	0.2	8.5	0.0	0.6	1.4	0.0	0.0	0.0	48.6	100.0	2,709
Lagos	1.6	73.0	16.7	0.0	0.3	4.5	0.0	0.3	0.7	0.0	0.2	0.1	2.5	100.0	7,576
Nasarawa	3.1	3.3	11.0	0.3	1.0	12.3	0.0	1.6	15.6	0.0	0.1	0.0	46.4	100.0	3,792
Niger	3.2	5.3	18.9	0.2	0.2	18.0	5.3	0.3	8.5	0.0	0.0	0.0	45.3	100.0	7,954
Ogun	3.7	32.3	12.6	0.0	0.3	19.6	0.1	0.0	10.4	0.5	0.2	0.6	19.6	100.0	2,317
Ondo	8.9	21.3	6.3	0.0	0.5	16.6	0.2	0.3	8.5	1.2	3.8	0.5	32.0	100.0	3,471
Osun	0.5	28.8	6.5	0.0	0.5	25.5	0.1	0.2	4.3	0.2	0.0	0.7	32.7	100.0	3,257
							0.0								

Oyo	1.6	31.4	16.8	0.0	0.2	5.7		0.1	1.7	0.0	0.0	0.0	42.5	100.0	5,508
							0.0								
Plateau	2.2	12.5	9.9	1.1	0.4	13.3		1.2	4.7	0.0	0.0	0.0	54.8	100.0	6,581
							0.0								
Rivers	35.1	3.5	19.4	0.0	0.5	7.2		0.0	3.4	0.0	9.8	0.3	19.8	100.0	3,729
							1.0								
Sokoto	0.8	0.5	2.8	0.0	0.8	41.5		0.9	19.5	0.2	0.1	0.1	32.1	100.0	5,164
							0.6								
Taraba	2.9	1.0	2.8	0.0	1.4	26.7		0.1	22.9	0.0	0.4	0.1	40.9	100.0	2,974
							0.7								
Yobe	3.4	1.4	5.0	0.0	0.6	12.5		0.2	38.7	0.0	0.4	0.2	37.4	100.0	6,511
							0.0								
Zamfara	2.3	1.8	2.4	0.2	10.6	27.4		0.6	50.2	0.0	0.1	0.2	4.4	100.0	7,663
							0.0								
FCT Abuja	2.9	28.6	16.1	0.6	3.0	8.0		2.8	2.7	0.0	0.0	0.0	35.1	100.0	1,489
							0.2								

Table WS.6: Use and sharing of sanitation facilities

Percent distribution of household population by use of private and public sanitation facilities and use of shared facilities, by users of improved and unimproved sanitation facilities, Nigeria 2016 -17

	Users of unimproved sanitation facilities										Number of households
	of improved sanitation facilities					Users					
	Shared by		Shared by			Shared by		Open defecation household shared ¹	100.0		
	5 households shared facility or less	More than 5 households shared facility or less	5 households bush, field	More than 5 households bush, field	5 households bush, field	More than 5 households bush, field	Total members				
Total	35.9	1.3	9.8	4.5	19.1	1.2	3.9	0.8	23.5	100.0	182,165
Geopolitical zone											
North Central	27.5	1.2	8.3	3.3	6.8	0.5	1.6	0.6	50.0	100.0	30,688
North East	39.2	0.2	8.6	1.3	28.0	0.3	3.7	0.4	18.2	100.0	36,964
North West	37.9	0.7	5.0	2.3	31.7	0.6	6.5	1.0	14.3	100.0	61,155
South East	44.1	4.5	9.2	3.6	11.4	2.3	2.2	0.6	22.0	100.0	12,708
South South	38.3	3.9	14.3	6.7	6.6	5.7	3.1	1.1	20.4	100.0	17,393
South West	30.6	1.0	22.8	16.1	1.6	1.0	1.9	1.0	24.1	100.0	23,257
Residence											
Urban	49.2	2.0	17.7	10.3	9.7	0.8	3.3	1.0	6.0	100.0	61,430
Rural	29.2	1.0	5.7	1.6	23.9	1.4	4.2	0.7	32.4	100.0	120,735
Education of household head											
None	24.4	0.8	6.0	1.8	24.5	0.9	3.9	0.6	37.1	100.0	39,653
Non-formal	33.0	0.7	5.5	1.6	33.2	0.6	5.9	1.0	18.4	100.0	36,506
Primary	31.7	1.5	10.5	5.3	16.0	1.6	4.2	1.0	28.1	100.0	34,678
Secondary	36.1	2.1	15.3	8.7	10.8	1.7	3.2	0.8	21.1	100.0	43,819
Higher	61.8	1.2	11.0	4.8	9.5	0.9	1.7	0.5	8.5	100.0	27,166
Missing /Don't know	33.8	0.0	14.2	5.6	26.6	0.9	0.5	0.0	18.4	100.0	344
Wealth index quintile											

Poorest	15.5	0.4	1.5	0.4	32.8	0.6	4.5	0.7	43.5	100.0	36,427
Second	24.8	0.4	3.8	0.7	30.3	1.0	5.9	0.7	32.3	100.0	36,454
Middle	32.4	1.0	9.8	2.5	20.8	1.6	5.2	1.1	25.5	100.0	36,404
Fourth	43.4	2.3	16.6	8.4	8.9	1.8	2.9	1.0	14.5	100.0	36,449
Richest	63.5	2.3	17.0	10.6	2.6	0.9	0.8	0.5	1.7	100.0	36,432
Ethnicity of household head											
Hausa	38.7	0.5	6.6	1.8	29.4	0.5	5.1	0.8	16.4	100.0	90,060
Igbo	44.4	4.3	11.1	7.3	9.4	1.9	2.1	0.8	18.6	100.0	18,007
Yoruba	30.6	1.4	23.0	14.7	2.2	1.2	1.9	1.1	23.8	100.0	21,721
Other ethnic group	30.4	1.6	9.2	4.1	11.7	2.0	3.1	0.7	37.2	100.0	52,376
<i>¹ MICS indicator 4.3; MDG indicator 7.9 - Use of improved sanitation</i>											

Table WS.6: Use and sharing of sanitation facilities (continued)

Percent distribution of household population by use of private and public sanitation facilities and use of shared facilities, by users of improved and unimproved sanitation facilities, Nigeria 2016 -17

Users of improved sanitation facilities			Users of unimproved sanitation facilities			Open	Number of
Shared by		Missing	Shared by		Missing defecation		
5	More than 5	Don't know	5	More than 5	Don't know	facility or less	
Not Public households know shared facility or less			Not Public households know bush, field)			Total members	

Total	35.9	1.3	9.8	4.5	0.0	19.1	1.2	3.9	0.8	0.0	23.5	100.0	182,165											
State																								
Abia	53.1	5.5	14.6	3.4	0.0	10.6	4.6	4.3	0.1	0.0	3.8	100.0	1,826											
Adamawa	38.9	1.0	6.6	3.4	0.2	31.1	0.2	1.7	0.7	0.0	16.3	100.0	4,379											
Akwa Ibom	46.3	0.6	23.4	7.3	0.1	9.6	0.6	3.5	1.3	0.0	7.3	100.0	3,893											
Anambra	56.7	5.0	10.3	5.6	0.0	9.9	0.2	0.7	1.3	0.0	10.3	100.0	2,965											
Bauchi	37.8	0.4	3.5	1.1	0.0	38.0	0.0	4.1	0.0	0.0	15.0	100.0	8,746											
Bayelsa	20.9	2.0	5.1	2.3	0.0	2.7	34.0	1.1	0.5	0.1	31.2	100.0	1,279											
Benue	22.2	0.4	5.9	2.1	0.0	13.0	0.3	3.8	1.2	0.0	51.2	100.0	5,012											
Borno	52.3	0.0	20.4	1.6	0.0	16.7	0.5	3.9	0.8	0.0	3.8	100.0	11,063											
Cross River	25.5	2.0	14.2	4.9	0.0	9.7	0.8	5.7	1.9	0.0	35.3	100.0	3,233											
Delta	38.1	4.8	11.2	9.3	0.1	6.1	3.6	2.8	1.6	0.0	22.5	100.0	2,921											
Ebonyi	12.1	5.0	2.8	1.3	0.0	21.0	7.2	4.1	1.0	0.0	45.6	100.0	2,248											
Edo	51.6	9.5	7.8	5.1	0.0	6.8	0.8	3.3	1.3	0.0	13.9	100.0	2,339											
Ekiti	25.5	0.7	19.0	5.1	0.1	2.4	0.1	7.3	0.6	0.2	39.0	100.0	1,128											
Enugu	32.9	5.1	7.8	6.1	0.0	5.1	1.0	1.7	0.4	0.1	39.8	100.0	2,399											
Gombe	42.9	0.0	3.1	0.6	0.1	29.6	0.1	3.9	0.2	0.0	19.5	100.0	3,291											
Imo	57.8	2.8	10.7	1.9	0.0	11.3	0.6	1.4	0.1	0.0	13.3	100.0	3,270											
Jigawa	32.8	1.9	1.0	1.0	0.0	35.6	0.7	3.7	0.3	0.0	23.0	100.0	8,019											
Kaduna	29.4	0.8	12.6	8.6	0.0	25.9	0.2	10.5	1.7	0.0	10.3	100.0	10,418											
Kano	55.1	0.8	5.9	1.6	0.1	26.3	0.3	4.5	1.0	0.0	4.6	100.0	13,560											
Katsina	28.2	0.0	2.5	0.0	0.0	45.1	0.3	6.3	0.3	0.0	17.2	100.0	10,941											
Kebbi	30.5	0.5	2.6	2.5	0.0	0.8	0.1	25.0	100.0	5,391	Kogi	21.7	3.8	5.6	1.5	0.2	1.6	1.7	0.8	0.1	0.6	62.5	100.0	3,152
Kwara	22.5	2.4	15.0	9.5	0.0	0.9	0.2	0.4	0.5	0.0	48.6	100.0	2,709											
Lagos	44.0	0.5	22.8	28.7	0.1	0.5	0.3	0.2	0.3	0.0	2.5	100.0	7,576											
Nasarawa	27.0	0.6	4.7	3.9	0.0	14.2	0.0	2.4	0.7	0.0	46.4	100.0	3,792											
Niger	33.1	1.0	9.0	2.8	0.0	6.9	0.6	1.2	0.0	0.1	45.3	100.0	7,954											
Ogun	31.5	0.4	23.1	13.7	0.0	3.5	0.3	5.3	2.5	0.0	19.6	100.0	2,317											
Ondo	21.9	0.6	19.6	11.6	0.0	3.6	4.3	4.0	2.3	0.0	32.0	100.0	3,471											
Osun	24.7	2.0	25.3	9.8	0.0	2.1	1.4	1.5	0.3	0.0	32.7	100.0	3,257											
Oyo	21.6	1.6	24.0	8.4	0.0	0.3	0.0	0.6	1.0	0.0	42.5	100.0	5,508											
Plateau	26.8	0.9	8.9	2.3	0.3	3.4	0.6	0.9	0.9	0.1	54.8	100.0	6,581											
Rivers	38.7	5.6	14.3	8.0	0.0	2.2	10.3	1.0	0.2	0.0	19.8	100.0	3,729											
Sokoto	40.7	0.4	5.6	0.4	0.0	18.6	0.1	1.8	0.2	0.0	32.1	100.0	5,164											
Taraba	31.0	0.4	2.8	1.3	0.0	20.1	0.3	2.1	0.9	0.1	40.9	100.0	2,974											
Yobe	20.7	0.0	2.1	0.1	0.0	34.5	0.6	4.6	0.0	0.0	37.4	100.0	6,511											
Zamfara	41.2	0.3	2.5	0.6	0.0	35.0	1.5	12.2	2.4	0.0	4.4	100.0	7,663											
FCT Abuja	40.9	0.8	12.9	4.9	0.0	3.0	0.2	1.0	1.2	0.1	35.1	100.0	1,489											

¹ MICS indicator 4.3; MDG indicator 7.9 - Use of improved sanitation

Table WS.7: Drinking water and sanitation ladders

Percentage of household population by drinking water and sanitation ladders, Nigeria, 2016-17

	Percentage of household population using:											
	Improved drinking water ^{1, a}		Unimproved sanitation					Improved drinking water				
	dwelling, household	Unimproved yard improved	Shared sources improved water	Total sanitation ²	Number of plot or <u>sanitation</u> ² <u>facilities</u>	Other drinking facilities	Improved improved	Improved improved	Unimproved	Piped into	Open improved	
Total	4.1	60.0	35.9	100.0	35.9	15.6	25.0	23.5	100.0	26.5	182,165	
Geopolitical zone												
North Central	2.5	56.1	41.3	100.0	27.5	12.9	9.6	50.0	100.0	21.6	30,688	
North East	3.4	49.0	47.6	100.0	39.2	10.2	32.4	18.2	100.0	22.8	36,964	
North West	5.8	52.8	41.4	100.0	37.9	8.0	39.8	14.3	100.0	25.6	61,155	
South East	1.6	78.5	19.9	100.0	44.1	17.4	16.5	22.0	100.0	37.6	12,708	
South South	5.0	70.5	24.5	100.0	38.3	24.9	16.5	20.4	100.0	34.4	17,393	
South West	3.5	83.8	12.7	100.0	30.6	39.9	5.4	24.1	100.0	29.4	23,257	
Residence												
Urban	8.8	74.1	17.1	100.0	49.2	29.9	14.9	6.0	100.0	41.3	61,430	
Rural	1.7	52.9	45.4	100.0	29.2	8.3	30.1	32.4	100.0	19.0	120,735	
Education of household head												
None	2.0	52.6	45.4	100.0	24.4	8.6	29.9	37.1	100.0	15.9	39,653	
Non-formal	2.5	47.7	49.8	100.0	33.0	7.8	40.8	18.4	100.0	18.6	36,506	
Primary	2.3	63.0	34.7	100.0	31.7	17.4	22.8	28.1	100.0	23.9	34,678	
Secondary	4.1	69.2	26.7	100.0	36.1	26.1	16.6	21.1	100.0	28.5	43,819	
Higher	11.8	68.6	19.6	100.0	61.8	17.1	12.6	8.5	100.0	52.6	27,166	
Missing/Don't know	3.6	68.5	27.9	100.0	33.8	19.8	27.9	18.4	100.0	27.5	344	
Wealth index quintile												
Poorest	0.8	36.9	62.3	100.0	15.5	2.3	38.6	43.5	100.0	6.9	36,427	
Second	1.5	51.1	47.5	100.0	24.8	5.0	37.9	32.3	100.0	14.4	36,454	
Middle	1.5	58.7	39.8	100.0	32.4	13.2	28.8	25.5	100.0	20.0	36,404	
Fourth	3.3	75.6	21.1	100.0	43.4	27.4	14.7	14.5	100.0	33.4	36,449	
Richest	13.5	77.8	8.7	100.0	63.5	30.0	4.8	1.7	100.0	57.8	36,432	
Ethnicity of household head												
Hausa	5.1	50.9	44.1	100.0	38.7	8.9	35.9	16.4	100.0	25.1	90,060	
Igbo	3.6	78.1	18.3	100.0	44.4	22.7	14.3	18.6	100.0	39.0	18,007	
Yoruba	3.0	86.1	10.9	100.0	30.6	39.2	6.4	23.8	100.0	29.1	21,721	
Other ethnic group	3.1	58.7	38.2	100.0	30.4	14.8	17.5	37.2	100.0	23.5	52,376	
¹ MICS indicator 4.1; MDG indicator 7.8 - Use of improved drinking water sources ² MICS indicator 4.3; MDG indicator 7.9 - Use of improved sanitation												

^a Those indicating bottled water as the main source of drinking water are distributed according to the water source used for other purposes such as cooking and handwashing.

Table WS.7: Drinking water and sanitation ladders (continued)

Percentage of household population by drinking water and sanitation ladders, Nigeria, 2016-17

	Percentage of household population using:										
	Improved drinking water ^{1, a}				Unimproved sanitation				Improved drinking water		
	dwelling, household	Unimproved yard improved	Shared sources water	Total sanitation ²	Number of plot or facilities	Other drinking facilities	Improved defecation	Improved Total sanitation	members		
Total	4.1	60.0	35.9	100.0	35.9	15.6	25.0	23.5	100.0	26.5	182,165
States											
Abia	4.0	79.5	16.5	100.0	53.1	23.5	19.6	3.8	100.0	46.1	1,826
Adamawa	2.9	51.0	46.1	100.0	38.9	11.2	33.6	16.3	100.0	20.6	4,379
Akwa Ibom	2.0	78.3	19.7	100.0	46.3	31.3	15.1	7.3	100.0	39.6	3,893
Anambra	2.9	81.5	15.6	100.0	56.7	21.0	12.0	10.3	100.0	50.7	2,965
Bauchi	2.8	57.4	39.8	100.0	37.8	5.0	42.1	15.0	100.0	27.0	8,746
Bayelsa	2.3	58.3	39.4	100.0	20.9	9.4	38.5	31.2	100.0	17.0	1,279
Benue	0.2	64.1	35.7	100.0	22.2	8.3	18.3	51.2	100.0	17.3	5,012
Borno	2.5	44.5	53.0	100.0	52.3	22.0	21.9	3.8	100.0	26.7	11,063
Cross River	3.6	50.3	46.1	100.0	25.5	21.1	18.1	35.3	100.0	20.4	3,233
Delta	5.4	74.1	20.6	100.0	38.1	25.3	14.1	22.5	100.0	35.1	2,921
Ebonyi	0.2	76.2	23.6	100.0	12.1	9.1	33.2	45.6	100.0	10.4	2,248
Edo	6.1	81.8	12.1	100.0	51.6	22.4	12.1	13.9	100.0	49.0	2,339
Ekiti	3.6	80.8	15.6	100.0	25.5	24.9	10.5	39.0	100.0	23.6	1,128
Enugu	1.5	57.7	40.8	100.0	32.9	19.0	8.3	39.8	100.0	16.6	2,399
Gombe	4.8	34.3	60.8	100.0	42.9	3.8	33.8	19.5	100.0	20.0	3,291
Imo	0.3	91.9	7.8	100.0	57.8	15.3	13.5	13.3	100.0	54.9	3,270
Jigawa	7.0	72.5	20.6	100.0	32.8	3.9	40.3	23.0	100.0	28.6	8,019
Kaduna	3.5	57.6	38.9	100.0	29.4	22.0	38.3	10.3	100.0	23.1	10,418
Kano	7.8	50.1	42.1	100.0	55.1	8.2	32.0	4.6	100.0	33.8	13,560
Katsina	6.1	54.6	39.2	100.0	28.2	2.6	52.0	17.2	100.0	21.6	10,941
Kebbi	4.7	50.7	44.7	100.0	30.5	5.6	38.9	25.0	100.0	22.8	5,391
Kogi	0.5	69.7	29.8	100.0	21.7	11.1	4.8	62.5	100.0	18.9	3,152
Kwara	1.7	84.1	14.2	100.0	22.5	26.9	2.0	48.6	100.0	22.1	2,709
Lagos	8.4	85.2	6.4	100.0	44.0	52.1	1.4	2.5	100.0	42.5	7,576
Nasarawa	0.3	54.5	45.2	100.0	27.0	9.2	17.3	46.4	100.0	20.4	3,792
Niger	2.5	50.4	47.1	100.0	33.1	12.8	8.8	45.3	100.0	23.8	7,954
Ogun	1.9	86.6	11.4	100.0	31.5	37.2	11.7	19.6	100.0	31.1	2,317
Ondo	0.3	79.2	20.4	100.0	21.9	31.9	14.3	32.0	100.0	21.3	3,471
Osun	1.3	87.2	11.5	100.0	24.7	37.1	5.4	32.7	100.0	23.0	3,257
Oyo	0.7	82.1	17.2	100.0	21.6	34.0	1.9	42.5	100.0	20.6	5,508
Plateau	4.4	38.5	57.1	100.0	26.8	12.5	5.8	54.8	100.0	21.3	6,581
Rivers	9.4	74.0	16.5	100.0	38.7	27.9	13.6	19.8	100.0	37.3	3,729
Sokoto	4.4	28.2	67.4	100.0	40.7	6.4	20.8	32.1	100.0	16.9	5,164
Taraba	3.7	34.5	61.8	100.0	31.0	4.5	23.5	40.9	100.0	17.7	2,974
Yobe	5.2	58.0	36.8	100.0	20.7	2.2	39.6	37.4	100.0	15.4	6,511
Zamfara	5.8	45.7	48.5	100.0	41.2	3.4	51.0	4.4	100.0	25.1	7,663
FCT Abuja	13.8	61.8	24.4	100.0	40.9	18.6	5.5	35.1	100.0	34.3	1,489

¹ MICS indicator 4.1; MDG indicator 7.8 - Use of improved drinking water sources ² MICS indicator 4.3; MDG indicator 7.9 - Use of improved sanitation

^a

Those indicating bottled water as the main source of drinking water are distributed according to the water source used for other purposes

such as cooking and handwashing.

Table WS.8: Disposal of child's faeces

Percent distribution of children age 0-2 years according to place of disposal of child's faeces, and the percentage of children age 0-2 years whose stools were disposed of safely the last time the child passed stools, Nigeria, 2016-17

	Place of disposal of child's faeces									Percentage of		
	Put/rinsed disposed of toilet/latrine	Put/rinsed latrine	Thrown or ditch	Left in garbage	stools Buried	children open	Child used Other know	into toilet Missing	or into drain	Total	Number of safely ¹	children whose last Number of into the Don't years
Total	6.6	51.5	6.9	24.8	4.4	2.2	2.8	0.6	0.2	100.0	58.1	16,480
Type of sanitation facility used by household members												
Improved	8.5	65.4	5.2	16.1	1.8	0.7	1.5	0.7	0.2	100.0	73.8	8,208
Unimproved	7.4	63.8	6.0	15.1	4.6	1.1	1.4	0.3	0.1	100.0	71.3	4,379
Open defecation	1.6	8.6	11.3	54.3	9.5	6.5	7.1	0.8	0.4	100.0	10.1	3,892
Geopolitical zone												
North Central	3.5	26.8	9.4	42.7	4.0	6.0	5.2	1.7	0.7	100.0	30.2	2,643
North East	4.3	60.6	6.1	21.2	4.7	1.6	1.3	0.2	0.0	100.0	65.0	3,499
North West	10.6	61.6	6.2	14.6	4.2	0.8	1.3	0.5	0.2	100.0	72.2	6,286
South East	4.4	41.5	6.3	32.2	5.2	2.6	6.7	0.6	0.5	100.0	45.9	926
South South	3.9	40.0	7.6	33.8	8.0	2.5	3.4	0.7	0.2	100.0	43.9	1,347
South West	4.5	49.0	6.5	31.2	1.7	1.9	4.8	0.4	0.0	100.0	53.5	1,779
Residence												
Urban	7.6	63.1	5.4	18.6	1.6	0.7	2.0	0.9	0.1	100.0	70.6	5,006
Rural	6.1	46.5	7.5	27.6	5.6	2.8	3.1	0.5	0.3	100.0	52.7	11,473
Mother's education												
None	5.1	47.0	8.7	27.1	5.8	2.6	2.8	0.6	0.1	100.0	52.09	4,713
Non-formal	8.1	61.7	5.2	17.9	3.6	1.4	1.4	0.5	0.2	100.0	69.80	3,589
Primary	7.1	44.8	7.7	27.3	5.2	3.2	3.6	0.7	0.4	100.0	51.91	2,464
Secondary	5.4	51.1	6.3	26.6	3.8	2.2	3.7	0.8	0.2	100.0	56.56	4,421
Higher	10.4	54.4	5.1	25.1	1.9	0.5	1.7	0.8	0.3	100.0	64.75	1,292
Missing/Don't know	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.00	1
Wealth index quintile												
Poorest	5.3	40.8	8.0	31.8	7.8	3.3	2.4	0.5	0.1	100.0	46.1	3,674
Second	7.5	49.0	7.6	24.7	5.0	2.7	2.9	0.4	0.3	100.0	56.5	3,542
Middle	5.6	51.9	7.0	24.4	3.7	2.5	3.9	0.6	0.4	100.0	57.4	3,212
Fourth	5.9	57.0	7.6	20.0	3.6	1.5	3.4	0.8	0.2	100.0	62.9	3,103
Richest	8.8	61.9	3.6	21.9	1.0	0.4	1.2	1.0	0.1	100.0	70.7	2,949
Ethnicity of household head												

Hausa	8.0	60.0	6.9	17.1	4.6	1.4	1.3	0.6	0.2	100.0	68.0	9,148
Igbo	4.0	44.2	6.2	33.3	3.8	2.1	5.3	0.5	0.5	100.0	48.2	1,389
Yoruba	5.6	51.2	6.1	28.2	1.8	2.3	4.4	0.5	0.1	100.0	56.8	1,549
Other ethnic group	4.8	36.3	7.2	37.2	5.1	3.7	4.6	0.9	0.3	100.0	41.1	4,393

¹ MICS indicator 4.4 - Safe disposal of child's faeces

Table WS.8: Disposal of child's faeces (continued)

Percent distribution of children age 0-2 years according to place of disposal of child's faeces, and the percentage of children age 0-2 years whose stools were disposed of safely the last time the child passed stools, Nigeria, 2016-17

whose Number of	Percentage of											Place of disposal of child's faeces		children																	
	Child used toilet/latrine	Put/rinsed into latrine	Put/rinsed into toilet or drain	Thrown into or ditch garbage	Buried	Left in the open	Other	Don't know	Missing	Total	last stools were disposed of safely ¹	children age 0-2 years																			
Total	58.1	6.6	51.5	6.9	24.8	4.4	2.2	2.8	0.6	0.2	100.0																				
State																															
Abia	3.7	50.8	7.3	31.3	3.8	0.5	0.6	1.1	0.9	100.0	54.4	140	Adamawa	15.7	40.6	8.4	14.0	9.3	8.3	2.1	1.6	0.0	100.0	56.3	375						
	51.6	5.3	20.3	9.7	3.1	0.4	1.1	0.7	100.0	59.4	357	Anambra	5.4	51.5	3.6	32.0	2.3	0.3	3.7	1.1	0.0	100.0	56.9	218	Bauchi	1.3	71.1	9.6	13.3		
	3.3	0.4	0.9	0.1	0.0	100.0	72.4	903	Bayelsa	1.6	19.1	18.2	35.6	1.7	0.0	23.7	0.3	0.0	100.0	20.7	100	Benue	0.4	14.2	7.3	57.6	4.9	5.7	7.4	2.4	
	0.0	100.0	14.7	382																											
Borno		5.1		73.6		2.2	12.6	3.6	0.7	2.1	0.0	0.0	100.0																		
Cross River	2.8	39.7	10.6	36.6	7.0	1.2	1.1	1.0	0.0	100.0	42.6	234	Delta	1.4	36.8	7.2	33.1	8.5	7.2	4.9	0.9	0.0	100.0	38.2	246	Ebonyi	3.8				
	36.2	11.2	33.8	8.1	4.9	0.7	0.0	1.3	100.0	39.9	166	Edo	3.7	44.0	4.0	42.7	4.0	1.2	0.0	0.4	0.0	100.0	47.7	165	Ekiti	11.1	40.3	5.7	25.9	0.4	1.3
	15.2	0.0	0.0	100.0	51.5	72																									
Enugu	6.6	36.9	4.4	31.0	5.0	5.1	11.1	0.0	0.0	100.0	43.5	160	Gombe	3.4	56.9	7.4	28.5	1.3	1.6	0.8	0.0	0.0	100.0	60.3	326	Imo	2.8	33.7	5.9		
	32.5	6.9	2.8	14.1	0.7	0.7	100.0	36.5	242	Jigawa	9.6	56.5	15.9	11.6	1.9	0.0	3.7	0.9	0.0	100.0	66.1	840	Kaduna	1.4	62.5	5.3	19.4	9.4	0.2		
	1.7	0.3	0.0	100.0	63.8	922																									
Kano	27.8	55.4	6.2	7.1	1.7	0.7	0.7	0.3	0.1	100.0	83.3	1,397	Katsina	13.1	68.1	2.2	10.6	5.2	0.4	0.4	0.1	0.0	100.0	81.2	1,249						
Kebbi	2.4	41.9	7.5	29.2	10.4	4.4	1.4	1.6	1.3	100.0	44.3	538	Kogi	3.3	25.7	4.2	39.2	8.5	0.7	7.5	2.1	8.8	100.0	29.0	199	Kwara	7.1	40.5	8.0		
	31.2	1.3	6.7	5.1	0.0	0.0	100.0	47.6	192																						
Lagos	2.7	61.1	4.8	31.0	0.2	0.0	0.2	0.0	0.0	100.0	63.8	644	Nasarawa	8.7	22.3	18.9	34.6	6.7	8.0	0.9	0.0	0.0	100.0	30.9	348	Niger	1.5	33.6			
	14.5	40.0	3.0	5.1	1.1	1.2	0.0	100.0	35.1	777	Ogun	2.3	59.0	5.2	20.9	5.0	0.0	7.6	0.0	0.0	0.0	100.0	61.3	172	Ondo	4.7	40.2	4.4	22.7	4.6	5.2
	15.7	2.4	0.0	100.0	44.9	244	Osun	1.2	43.0	8.7	33.8	4.0	4.4	4.1	0.8	0.0	100.0	44.2	215	Oyo	8.6	36.3	9.6	40.0	0.2	2.3	3.0	0.0	0.0	100.0	44.9
	432																														
Plateau		4.1		22.0		2.1	47.2	3.0	8.7	9.1	3.9	0.0	100.0																		
Rivers	2.8	32.3	6.9	44.6	11.0	0.0	2.5	0.0	0.0	100.0	35.0	245	Sokoto	0.9	53.7	4.0	37.5	2.6	0.2	0.9	0.2	0.0	100.0	54.6	548	Taraba	2.9	32.9			
	12.2	35.9	14.7	1.0	0.4	0.0	0.0	100.0	35.8	251																					
Yobe	1.6	48.7	3.0	41.7	3.4	0.9	0.6	0.0	0.0	100.0	50.3	611	Zamfara	0.4	85.6	4.2	6.0	0.6	0.9	1.2	0.6	0.5	100.0	86.0	793						
FCT Abuja		1.9		38.6		4.9	37.7	2.0	2.2	12.2	0.2	0.3	100.0																		

¹ MICS indicator 4.4 - Safe disposal of child's faeces

Handwashing

Table WS.9: Water and soap at place for handwashing

Percentage of households where place for handwashing was observed, percentage with no specific place for handwashing, and percent distribution of households by availability of water and soap at specific place for handwashing, Nigeria, 2016-17

Percentage of households:	Place for handwashing observed		Percentage of households with	Number of households where
	<u>Water is available and:</u>	<u>Water is not available</u>		
_____	_____	_____	_____	_____
specific No soap: <input type="checkbox"/> No soap: <input type="checkbox"/>	_____	_____	_____	_____
or with no	_____	_____	_____	_____
handwashing handwashing in mud, or cleansing mud, or cleansing in the soap or other specific place for was the dwelling, Number of Soap sand agent Soap sand agent dwelling, cleansing agent handwashing in the observed yard, or plot households present present present present present present yard, or plot Total are present ¹ dwelling, yard, or plot	_____	_____	_____	_____

Total	22.5	72.5	33901	12.4	0.1	3.9	1.4	0.0	5.9	76.3 100.0	12.4	32,192
Geopolitical zones												
North Central	16.6	74.7	5435	10.0	0.0	1.9	1.5	0.0	4.7	81.8 100.0	10.0	4,961
North East	27.8	68.4	□□□□	13.3	0.3	8.6	0.9	0.0	5.8	71.1 100.0	13.5	5,371
North West	28.1	65.7	□□□□	11.9	0.1	5.5	2.0	0.0	10.4	70.0 100.0	12.0	8,568
South East	13.7	83.1	□□□□	10.0	0.0	1.4	1.3	0.0	1.5	85.8 100.0	10.0	3,031
South South	19.0	77.8	4281	14.7	0.0	1.8	0.8	0.0	2.2	80.4 100.0	14.7	4,140
South West	21.4	75.1	6344	13.6	0.0	1.7	1.5	0.0	5.4	77.8 100.0	13.6	6,122
Residence												
Urban	28.6	67.0	12421	19.2	0.0	3.1	2.0	0.0	5.5	70.1 100.0	19.3	11,871
Rural	18.9	75.7	21480	8.3	0.1	4.3	1.1	0.0	6.1	80.0 100.0	8.4	20,321
Education of household head												
None	18.2	76.3	7443	7.0	0.1	4.6	1.0	0.0	6.6	80.7 100.0	7.1	7,036
Non-formal	23.9	70.8	5269	7.2	0.2	6.3	1.6	0.0	9.9	74.8 100.0	7.4	4,992
Primary	17.5	78.3	6558	9.1	0.0	3.3	1.1	0.0	4.8	81.7 100.0	9.1	6,289
Secondary	20.8	74.5	9047	12.5	0.0	2.8	1.4	0.0	5.1	78.1 100.0	12.6	8,627
Higher	35.4	58.6	5526	28.3	0.0	3.0	2.4	0.0	3.9	62.4 100.0	28.3	5,196
Missing/Don't know	20.2	69.9	58	11.3	0.0	1.4	1.5	0.0	8.2	77.6 100.0	11.3	52
Wealth index quintile												
Poorest	19.1	74.4	5592	3.8	0.1	6.1	0.9	0.0	9.4	79.6 100.0	3.9	5,227
Second	18.0	75.0	6328	5.6	0.2	5.2	1.1	0.0	7.3	80.6 100.0	5.8	5,885
Middle	17.4	78.5	6897	7.9	0.0	3.5	1.4	0.0	5.4	81.8 100.0	7.9	6,617
Fourth	20.0	76.4	7259	11.6	0.0	2.7	1.4	0.0	5.0	79.3 100.0	11.7	6,992
Richest	35.3	60.2	7825	28.3	0.0	2.7	2.2	0.0	3.7	63.1 100.0	28.3	7,472
Ethnicity of household head												
Hausa	27.3	67.4	13433	11.6	0.2	6.7	1.7	0.0	8.6	71.2 100.0	11.7	12,721
Igbo	18.1	78.3	4436	13.6	0.0	1.5	1.5	0.0	2.1	81.2 100.0	13.7	4,279
Yoruba	21.1	75.6	5873	13.0	0.0	1.8	1.4	0.0	5.7	78.1 100.0	13.0	5,680
Other ethnic group	18.8	74.8	10159	12.5	0.0	2.4	1.1	0.0	<u>4.1</u>	<u>79.9 100.0</u>	<u>12.5</u>	<u>9,512</u>
¹ MICS indicator 4.5 - Place for handwashing												

Table WS.9: Water and soap at place for handwashing (continued)

Percentage of households where place for handwashing was observed, percentage with no specific place for handwashing, and percent distribution of households by availability of water and soap at specific place for handwashing, Nigeria, 2016-17

	Percentage of households:		Place for handwashing observed									Percentage of households with a specific place for handwashing observed or with no specific place for handwashing in mud, or cleansing mud, or cleansing handwashing in the dwelling, yard, or plot	Number of households where place for handwashing was observed or with no specific place for handwashing in the dwelling, yard, or plot
	With no specific place for handwashing in the dwelling, yard, or plot	Where place for handwashing in the dwelling, yard, or plot	Water is available and:			Water is not available and:			No specific place for handwashing in mud, or cleansing mud, or cleansing handwashing in the dwelling, yard, or plot	No soap:	No soap:		
			present	present	present	present	present	present					
Total	22.5	72.5	33,901	12.4	0.1	3.9	1.4	0.0	5.9	76.3	100.0	12.4	32,192
States													
Abia	6.0	90.5	472	4.0	0.0	0.8	0.5	0.0	0.9	93.8	100.0	4.0	455
Adamawa	23.6	69.0	735	14.9	0.8	0.3	1.7	0.0	7.7	74.5	100.0	15.8	681
Ibom	17.0	78.6	844	15.4	0.1	1.7	0.3	0.0	0.3	82.2	100.0	15.5	807
Anambra	10.5	85.7	719	5.4	0.0	0.6	3.4	0.0	1.5	89.1	100.0	5.4	692
Bauchi	28.4	69.7	1384	7.6	0.0	15.6	0.9	0.0	4.9	71.0	100.0	7.6	1,358
Bayelsa	10.1	87.6	308	5.7	0.0	1.1	1.8	0.0	1.8	89.6	100.0	5.7	301
Benue	15.7	56.5	987	8.6	0.0	2.2	2.9	0.0	8.1	78.2	100.0	8.6	713
Borno	30.4	68.1	1493	23.1	0.4	4.6	0.5	0.0	2.3	69.1	100.0	23.5	1,471
Cross River	8.4	90.9	778	6.0	0.0	1.1	0.8	0.0	0.6	91.5	100.0	6.0	773
Delta	20.5	73.5	740	18.2	0.0	1.1	1.0	0.0	1.5	78.2	100.0	18.2	695
Ebonyi	13.7	82.7	535	11.8	0.0	1.8	0.2	0.0	0.4	85.8	100.0	11.8	516
Edo	36.2	62.5	654	23.3	0.0	2.0	1.8	0.0	9.5	63.3	100.0	23.3	646
Ekiti	6.4	91.5	351	4.6	0.0	0.4	0.9	0.0	0.5	93.5	100.0	4.6	344
Enugu	14.7	83.8	610	8.5	0.0	1.5	0.9	0.0	4.1	85.0	100.0	8.5	601
Gombe	36.6	55.8	529	16.0	0.0	4.1	2.0	0.0	17.5	60.4	100.0	16.0	488

States													
Kaduna	24.6	70.8	1646	16.7	0.0	3.2	0.5	0.0	5.4	74.2	100.0	16.7	1,570
Kano	43.6	50.8	1894	15.9	0.4	9.9	2.1	0.2	17.8	53.8	100.0	16.3	1,789
Katsina	31.9	63.1	1705	13.2	0.0	5.8	4.4	0.0	10.3	66.4	100.0	13.2	1,620
Kebbi	10.2	76.4	838	5.3	0.0	2.4	0.5	0.0	3.6	88.2	100.0	5.3	725
Kogi	13.0	76.5	649	9.9	0.0	1.7	1.0	0.0	2.0	85.4	100.0	9.9	580
Kwara	15.6	80.8	639	5.4	0.0	2.0	0.5	0.0	8.2	83.8	100.0	5.4	615
Lagos	31.9	64.4	1974	24.8	0.0	2.7	1.4	0.0	4.2	66.9	100.0	24.8	1,900
Nasarawa	4.4	94.0	630	1.1	0.0	0.1	0.2	0.0	3.0	95.5	100.0	1.1	620
Niger	26.6	70.3	1211	16.2	0.0	2.6	2.5	0.0	6.0	72.5	100.0	16.2	1,174
Ogun	10.7	86.1	608	9.7	0.0	0.6	0.3	0.0	0.5	88.9	100.0	9.7	589
Ondo	21.7	72.9	1025	7.7	0.0	1.0	1.7	0.0	12.5	77.1	100.0	7.7	970
Osun	15.8	82.6	916	7.5	0.0	2.0	2.7	0.0	3.8	83.9	100.0	7.5	902
Oyo	18.7	77.7	1470	10.4	0.0	1.2	1.4	0.0	6.2	80.6	100.0	10.4	1,417
Plateau	13.8	81.7	1051	10.4	0.0	2.1	1.1	0.0	0.8	85.6	100.0	10.4	1,003
Rivers	19.1	76.8	957	15.5	0.0	3.2	0.2	0.1	0.8	80.1	100.0	15.5	918
Sokoto	4.1	79.5	820	0.7	0.0	0.7	0.8	0.0	2.7	95.1	100.0	0.7	685
Taraba	12.0	83.0	527	3.0	0.0	3.1	0.5	0.0	6.0	87.4	100.0	3.0	500
Yobe	30.1	65.4	914	8.7	0.3	16.4	0.9	0.0	5.3	68.5	100.0	9.0	872
Zamfara	12.6	84.1	1078	3.1	0.3	2.8	1.2	0.0	5.6	87.0	100.0	3.4	1,042
FCT Abuja	24.7	70.2	270	17.1	0.0	1.9	0.7	0.0	6.2	74.0	100.0	17.1	256
1 MICS indicator 4.5 - Place for handwashing													

Table WS.10: Availability of soap or other cleansing agent

Percent distribution of households by availability of soap or other cleansing agent in the dwelling, Nigeria, 2016-17

	Place for handwashing not observed								Percentage of households with soap or other cleansing agent anywhere in the dwelling ¹	Number of households
	Handwashing observed				Place for handwashing not observed					
	Soap or other cleansing agent not at place for handwashing				Not able/Does					
	Soap or other cleansing agent observed	Soap or other cleansing agent shown	No soap or to other cleansing agent in household	Not able/Does not want to show soap or other cleansing agent	Soap or other cleansing agent shown	No soap or other agent in household	Not able/Does not want to show soap or other cleansing agent	Total		
Total	13.2	3.8	4.0	1.4	24.9	39.1	13.5	100.0	42.0	33,901
Geopolitical zone										
North Central	10.5	2.4	2.6		28.7	42.3	12.4	100.0	41.7	
North East	13.9	6.3	6.1	1.0	14.7	48.5	9.0	100.0	34.9	5,435
North West	13.2	6.0	7.1	1.8	18.6	46.7	6.5	100.0	37.9	9,128
South East	10.9	1.0	1.2	0.6	30.5	39.0	16.8	100.0	42.4	3,132
South South	15.1	1.5	2.1	0.3	32.7	28.4	19.9	100.0	49.3	4,281
South West	14.6	2.8	1.7	2.3	31.7	24.2	22.7	100.0	49.1	6,344
Residence										
Urban	20.4	3.8	2.8		27.1	26.9	17.4	100.0	51.3	
Rural	9.0	3.9	4.8	1.6	23.7	46.1	11.3	100.0	36.6	12,421
Education of household head										
None	7.7				20.8	49.6	11.4	100.0	33.2	
Non-formal	8.5	4.8	4.2	1.6	19.1	50.3	6.6	100.0	32.5	7,443
Primary	9.8	3.4	3.3	1.0	27.7	39.8	15.0	100.0	40.8	6,558
Secondary	13.3	3.3	2.9	1.3	28.7	33.9	16.5	100.0	45.3	9,047
Higher	28.9	3.1	2.3	1.0	26.6	21.9	16.1	100.0	58.6	5,526
Missing/Don't know	11.5	4.3	0.0	4.3	24.8	30.0	25.1	100.0	40.6	58

Total	13.2	3.8	4.0	1.4	24.9	39.1	13.5	100.0	42.0	33,901
State										
Abia	4.4	0.6	0.3	0.8	27.1	37.5	29.4	100.0	32.1	472
Adamawa	16.1	0.7	6.2	0.6	13.2	60.1	3.1	100.0	30.0	735
Akwa Ibom	15.1	0.6	1.1	0.3	37.0	23.1	22.8	100.0	52.7	844
Anambra	8.5	0.5	0.9	0.6	39.6	35.6	14.3	100.0	48.6	719
Bauchi	8.4	17.1	1.4	1.6	19.4	40.2	12.0	100.0	44.8	1,384
Bayelsa	7.3	0.7	1.4	0.7	23.7	44.2	22.1	100.0	31.7	308
Benue	8.3	3.8	2.5	0.8	22.1	51.9	10.3	100.0	34.2	987
Borno	23.6	1.1	5.7	0.0	15.3	46.9	7.4	100.0	40.0	1,493
Cross River	6.8	1.0	0.5	0.1	50.5	33.4	7.7	100.0	58.2	778
Delta	18.1	1.0	1.0	0.4	21.7	26.2	31.6	100.0	40.8	740
Ebonyi	11.6	0.2	1.9	0.0	20.7	58.9	6.7	100.0	32.4	535
Edo	24.9	1.3	9.7	0.3	17.1	34.6	12.1	100.0	43.3	654
Ekiti	5.4	0.2	0.1	0.6	32.0	39.5	22.1	100.0	37.7	351
Enugu	9.3	3.2	1.2	1.1	38.5	34.7	12.1	100.0	51.0	610
Gombe	16.6	4.7	10.7	4.4	13.5	33.4	16.5	100.0	34.9	529
Imo	17.9	0.6	1.4	0.5	24.7	32.9	22.0	100.0	43.1	796
Jigawa	19.3	8.0	17.2	2.5	5.7	45.5	1.9	100.0	32.9	1,147
Kaduna	16.4	3.5	3.1	1.6	32.6	34.3	8.4	100.0	52.5	1,646
Kano	17.5	11.4	12.6	2.2	16.4	35.2	4.8	100.0	45.3	1,894
Katsina	16.7	8.0	5.2	2.1	30.5	34.7	2.9	100.0	55.2	1,705
Kebbi	5.0	1.6	2.7	0.6	10.7	68.8	10.2	100.0	17.2	838
Kogi	9.8	1.6	1.5	0.2	24.1	55.7	7.2	100.0	35.4	649
Kwara	5.8	1.6	2.2	6.0	31.6	33.3	19.5	100.0	39.0	639
Lagos	25.3	3.7	0.3	2.6	29.6	15.5	23.0	100.0	58.6	1,974
Nasarawa	1.3	1.3	1.7	0.0	17.4	66.0	12.2	100.0	20.0	630
Niger	18.2	3.3	5.0	0.1	39.2	20.8	13.4	100.0	60.7	1,211
Ogun	9.7	0.2	0.0	0.8	31.5	26.7	30.9	100.0	41.3	608

Ondo	8.9	4.8	5.7	2.3	33.3	25.4	19.6	100.0	47.0	1,025
Osun	10.1	2.1	2.1	1.5	47.6	16.0	20.6	100.0	59.8	916
Oyo	11.5	2.1	1.7	3.3	23.4	35.4	22.5	100.0	37.0	1,470
Plateau	11.0	1.6	1.2	0.0	28.8	44.9	12.4	100.0	41.3	1,051
Rivers	15.2	3.6	0.2	0.1	36.5	21.6	22.9	100.0	55.3	957
Sokoto	1.2	0.8	0.9	1.0	6.9	71.1	17.9	100.0	8.9	820
Taraba	3.3	0.5	7.3	0.8	4.6	76.5	6.9	100.0	8.5	527
Yobe	9.4	7.5	10.6	2.7	14.2	47.3	8.4	100.0	31.1	914
Zamfara	4.5	2.6	3.8	1.6	11.3	70.3	5.6	100.0	18.4	1,078

FCT Abuja	17.0	<u>2.7</u>	<u>4.0</u>	<u>1.1</u>	<u>37.2</u>	<u>26.7</u>	<u>11.5</u>	MICS	100.0	56.8	270
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indicator 4.6 - Availability of soap or other cleansing agent

Safely managed drinking water services

Safe drinking water is a human right and a basic requirement for good health. Microbiological contamination of drinking water can lead to diarrhoeal diseases including shigellosis and cholera. Other pathogens in drinking water can cause hepatitis, typhoid, and polio myelitis. Drinking water can also be contaminated with chemicals with harmful effects on human health.

The global indicator for tracking progress towards the SDG drinking water target (SDG 6.1) is use of 'safely managed drinking water services', defined as an improved drinking water source that is accessible on premises, available when needed and free from contamination¹³. This represents a much more ambitious service level for drinking water services than the 'improved source' indicator used during the MDGs. The Nigeria MICS 2016-17 recorded whether households used sources located on premises, whether water sources provided water every day in the last two weeks and also included direct measurement of microbiological quality of drinking water at both the source and the household level.

The bacteria species *Escherichia coli* (*E. coli*) is the most commonly recommended faecal indicator, and many countries including Nigeria have set a standard that no *E. coli* should be found in a 100 mL sample of drinking water. *E. coli* was measured in the field by MICS teams by filtering 100 mL of sample through a 0.45 micron filter (Millipore Microfil®) which was then placed onto CompactDry EC growth media plates (Nissui, Japan). A 1 mL sample was also tested from the same source directly onto a second media plate. Incubation was done using ambient temperature and incubation belts were worn at night to keep the samples near body temperature. After 24-48 hours, the number of blue colonies, signifying the presence of *E. coli* colony forming units (CFU), was recorded and classified into the following risk categories: low risk (<1 per 100 mL), medium risk (1-10 per 100 mL), high risk (11-100 per 100 mL) and very high risk (>100 per 100 mL)¹⁴. Laboratory staff identified by the Federal Ministry of Water Resources trained field teams and conducted field visits to as part of the quality assurance for the water quality module.

Tables WQ.1 and WQ.2 report the levels of contamination of drinking water from a glass within the home and from water sample obtained from the water source. Table WQ.3 combines information on the quality, availability and location of drinking water sources to provide first estimates of safely managed drinking water services for Nigeria.

¹³ WHO/UNICEF Joint Monitoring Programme for Water Supply, Sanitation and Hygiene (2017), Progress on Drinking Water, Sanitation and Hygiene: 2017 Update and SDG baseline.

¹⁴ Adapted from WHO drinking water quality guidelines, 4th Ed. (2011), *E. coli* coliform counts are divided into risk categories based on probability of infection of diarrheal disease. Note, this classification does not take account of the sanitary inspection.

Table WQ.1: Quality of source of drinking water

Percent distribution of household population according to faecal contamination risk as assessed by levels of E. coli in source of drinking water, and percent of household population with E. coli in drinking water source Nigeria, 2016-17

	Low (<1 per 100 members)	Moderate (1-10 (11-100	High (>100 household mL)	Very high per 100 mL)	Number of per 100 mL)	Total
Total	22.7	16.3	14.6	46.4	100.0	13605
Main source of drinking water						
Piped water	34.1	19.3	21.9	24.8	100.0	1153
Tubewell/borehole	38.6	30.0	15.9	15.5	100.0	4926
Protected wells and springs	5.6	7.3	12.0	75.1	100.0	1571
Unprotected wells and springs	2.0	3.6	9.4	85.0	100.0	3042
Rainwater collection	15.0	13.8	22.5	48.7	100.0	703
Tanker-truck and cart will small	19.5	27.3	12.7	40.5	100.0	183 tank/drum
Sachet and bottled water	70.0	12.8	7.7	9.5	100.0	577
Other	7.2	4.9	16.9	71.0	100.0	1450
Residence						
Urban	27.2	20.9	20.0	31.8	100.0	4729
Rural	20.3	13.8	11.7	54.2	100.0	8876
Education of household head						
None	19.7	13.6	10.8	55.9	100.0	2547
Non-formal	11.5	12.9	17.0	58.6	100.0	2722
Primary	25.0	16.1	13.2	45.7	100.0	2663
Secondary	29.5	16.8	16.5	37.3	100.0	3663
Higher	26.5	23.5	14.4	35.6	100.0	2008
Wealth index quintile						
Poorest	15.4	9.9	9.4	65.3	100.0	2835
Second	12.9	11.2	13.4	62.6	100.0	2612
Middle	16.8	16.8	15.3	51.1	100.0	2658
Fourth	26.6	20.8	17.2	35.3	100.0	2743
Richest	41.5	22.6	17.7	18.2	100.0	2756
Ethnicity of household head						
Hausa	15.0	15.6	14.9	54.5	100.0	6413
Igbo	40.0	26.6	15.7	17.7	100.0	1452
Yoruba	34.4	18.5	13.7	33.5	100.0	1993
Other ethnic group	23.1	12.2	14.1	50.6	100.0	3747

Table WQ.1: Quality of source of drinking water – continued

Percent distribution of household population according to faecal contamination risk as assessed by levels of E. coli in source of drinking water, and percent of household population with E. coli in drinking water source Nigeria, 2016-17

Low (<1 per 100 mL)	Moderate (1-10 per 100 mL)	High (11-100 per 100 mL)	Very high (>100 per 100 mL)	Total	Number of household members
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State						
Abia	63.8	18.8	12.5	4.9	100.0	136
Adamawa	22.3	10.1	24.8	42.8	100.0	302
Akwa Ibom	55.7	15.7	14.5	14.2	100.0	330
Anambra	43.7	23.6	18.8	13.9	100.0	224
Bauchi	24.4	21.4	5.1	49.1	100.0	633
Bayelsa	22.1	10.1	25.6	42.2	100.0	96
Benue	6.1	2.1	5.4	86.4	100.0	402
Borno	8.8	9.5	20.0	61.8	100.0	297
Cross River	16.6	7.8	39.3	36.2	100.0	263
Delta	51.0	6.3	21.6	21.1	100.0	252
Ebonyi	2.5	14.9	19.4	63.1	100.0	147
Edo	52.6	14.5	7.2	25.7	100.0	214
Ekiti	13.2	13.1	29.7	44.0	100.0	112
Enugu	31.7	19.8	19.8	28.7	100.0	154
Gombe	6.6	14.4	18.7	60.2	100.0	240
Imo	58.1	28.1	8.7	5.2	100.0	311
Jigawa	24.6	19.6	5.5	50.3	100.0	650
Kaduna	17.7	14.4	13.3	54.5	100.0	823
Kano	12.0	16.8	30.1	41.1	100.0	1223
Katsina	48.9	4.5	15.2	31.4	100.0	606
Kebbi	2.4	10.5	3.8	83.3	100.0	357
Kogi	11.8	15.5	17.7	54.9	100.0	238
Kwara	48.6	7.9	1.9	41.5	100.0	286
Lagos	43.5	43.1	13.3	0.0	100.0	675
Nasarawa	9.9	17.4	7.4	65.4	100.0	283
Niger	11.5	13.5	20.3	54.6	100.0	624
Ogun	35.0	31.8	8.1	25.1	100.0	231
Ondo	18.0	9.3	16.4	56.3	100.0	280
Osun	26.5	17.7	16.6	39.1	100.0	282
Oyo	14.5	10.2	16.0	59.3	100.0	476
Plateau	3.0	8.1	11.6	77.3	100.0	452
Rivers	47.5	24.5	13.3	14.7	100.0	311
Sokoto	2.1	14.3	4.4	79.1	100.0	394
Taraba	6.8	9.8	17.9	65.5	100.0	219
Yobe	7.7	42.7	6.5	43.0	100.0	375
Zamfara	6.0	8.5	7.1	78.4	100.0	593
FCT Abuja	36.3	12.4	13.9	37.4	100.0	114

Table WQ.2: Quality of household drinking water

Percent distribution of household population according to faecal contamination risk as assessed by levels of E. coli in household drinking water, and percent of household population with E. coli in drinking water Nigeria, 2016-17						
	Low (<1 per 100 members)	Moderate (1-10 per 100 members)	High (11-100 per household)	Very high (>100 mL per 100 mL)	Number of Total	
Total	9.2	13.4	21.7	55.7	100.0	15106
Main source of drinking water						
Piped water	10.7	15.0	34.7	39.6	100.0	1352
Tubewell/borehole	8.2	21.8	26.6	43.4	100.0	4997
Protected wells and springs	3.9	7.8	19.5	68.8	100.0	1671
Unprotected wells and springs	1.1	1.4	13.2	84.3	100.0	3326
Rainwater collection	5.5	14.6	32.2	47.7	100.0	711
Tanker-truck and cart will small	18.5	22.6	29.3	29.6	100.0	247 tank/drum
Sachet and bottled water	52.3	24.3	10.2	13.1	100.0	1074
Other	5.0	7.3	18.0	69.7	100.0	1726
Residence						
Urban	16.5	19.1	24.4	40.0	100.0	5231
Rural	5.3	10.3	20.3	64.0	100.0	9875
Education of household head						
None	3.9	12.7	17.7	65.7	100.0	2835
Non-formal	2.8	3.6	24.3	69.2	100.0	3108
Primary	8.8	15.8	22.4	53.0	100.0	2871
Secondary	13.4	16.2	23.3	47.1	100.0	4063
Higher	17.6	19.4	19.5	43.6	100.0	2221
Wealth index quintile						
Poorest	3.5	8.8	15.0	72.7	100.0	3194
Second	3.3	4.6	19.0	73.2	100.0	2942
Middle	5.1	11.9	24.3	58.7	100.0	2907
Fourth	9.8	16.3	28.8	45.0	100.0	2849
Richest	23.5	24.6	22.4	29.5	100.0	3212
Ethnicity of household head						
Hausa	5.8	8.9	20.3	65.0	100.0	7215
Igbo	15.9	22.4	29.4	32.3	100.0	1584
Yoruba	15.2	21.9	22.0	40.9	100.0	2119
Other ethnic group	9.5	13.3	21.2	56.0	100.0	4187

Table WQ.2: Quality of household drinking water – continued

Percent distribution of household population according to faecal contamination risk as assessed by levels of E. coli in source of drinking water, and percent of household population with E. coli in drinking water source Nigeria, 2016-17

Low (<1 per 100 mL)	Moderate (1-10 per 100 mL)	High (11-100 per 100 mL)	Very high (>100 per 100 mL)	Total	Number of household members
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State						
Abia	16.7	34.4	30.2	18.8	100.0	165
Adamawa	6.4	6.7	6.3	80.6	100.0	342
Akwa Ibom	8.7	29.0	25.4	36.9	100.0	343
Anambra	23.6	14.3	23.2	38.9	100.0	266
Bauchi	0.4	30.8	14.4	54.3	100.0	747
Bayelsa	11.4	15.6	39.2	33.8	100.0	106
Benue	3.6	3.4	12.8	80.3	100.0	441
Borno	1.3	13.7	22.3	62.7	100.0	332
Cross River	8.9	16.8	27.5	46.8	100.0	306
Delta	18.0	22.4	28.8	30.7	100.0	270
Ebonyi	5.5	11.8	24.7	58.0	100.0	167
Edo	25.8	23.5	19.7	31.0	100.0	238
Ekiti	8.2	13.6	28.2	49.9	100.0	118
Enugu	14.4	12.2	41.5	31.9	100.0	200
Gombe	2.2	1.8	21.0	75.0	100.0	270
Imo	16.3	34.5	27.9	21.3	100.0	311
Jigawa	5.0	10.5	33.8	50.6	100.0	675
Kaduna	10.7	7.0	25.1	57.2	100.0	843
Kano	3.0	1.8	29.2	66.0	100.0	1302
Katsina	30.0	11.7	13.9	44.3	100.0	737
Kebbi	0.0	1.3	14.3	84.4	100.0	407
Kogi	2.6	19.9	23.0	54.5	100.0	290
Kwara	3.4	12.6	21.8	62.2	100.0	314
Lagos	26.9	31.0	19.1	23.1	100.0	695
Nasarawa	2.3	8.3	26.6	62.9	100.0	322
Niger	6.5	5.8	15.4	72.4	100.0	785
Ogun	8.8	19.9	35.0	36.3	100.0	244
Ondo	10.0	23.2	16.8	50.0	100.0	287
Osun	9.4	20.8	20.9	48.8	100.0	289
Oyo	11.4	16.8	21.0	50.8	100.0	532
Plateau	6.7	12.1	17.8	63.5	100.0	491
Rivers	25.2	13.0	37.1	24.7	100.0	318
Sokoto	0.0	3.7	21.1	75.2	100.0	480
Taraba	5.1	5.3	23.0	66.6	100.0	248
Yobe	0.8	17.0	17.3	64.9	100.0	422
Zamfara	6.9	6.9	7.8	78.4	100.0	672
FCT Abuja	8.1	6.5	18.5	66.9	100.0	130

Table WQ.3: Safely managed drinking water services

Percent distribution of household population with drinking water accessible on premises, available when needed, and free from faecal contamination, for users of improved and unimproved drinking water sources, Nigeria, 2016-17

	Main source of drinking water:						Percentage of household members with an improved	Number of household members with improved water source located on premises, household population with drinking water free of E. coli in available information on water source weeks on premises water
	Improved sources			Unimproved sources				
	Percentage of household drinking water with members without available every drinking day in last two weeks premises when needed [1]	Percentage of household drinking water with drinking water accessible every day in last two weeks premises when needed [1]	Percentage of household drinking water with drinking water accessible every day in last two weeks premises when needed [1]	Percentage of household drinking water without E. coli in available information on water quality	Percentage of household drinking water with E. coli in available information on water quality	Percentage of household drinking water with E. coli in available information on water quality		
Total	32.1	79.5	33.7	3.7	88.9	31.6	3.7	13605
Main source of drinking water								
Piped water 1153	34.1	40.5	45.4				3.1	
Tubewell/borehole	38.6	85.8	15.7				4.9	4926
Protected wells and springs	5.6	90.2	54.2				3.2	1571
Unprotected wells and springs				2.0	90.2	44.1	0.0	3042
Rainwater collection	15.0	83.5	96.7				10.7	703
Tanker-truck and cart will small tank/drum	19.5	69.3	9.4				1.3	183
Sachet and bottled water	70.0	72.5	39.8				16.5	577
Other				7.2	86.1	5.3	0.0	1450
Residence								
Urban	29.2	78.2	39.7	8.2	82.8	52.2	4.9	4729
Rural	34.6	80.5	28.4	3.2	89.6	29.2	3.0	8876
Education of household head								
None	37.0	81.4	32.0	0.8	90.3	26.0	2.6	2547

Non-formal	18.6	74.6	15.3	4.5	89.8	46.8	1.1	2722
Primary	35.1	83.1	33.4	2.8	88.4	28.2	5.5	2663
Secondary	35.2	78.9	33.6	8.3	86.4	20.8	2.4	3663
Higher	30.5	78.8	50.0	2.5	87.2	21.2	8.6	2008
Wealth index quintile								
Poorest	34.9	84.1	16.2	4.4	90.7	22.0	2.0	2835
Second	24.7	81.2	22.5	2.2	89.4	47.1	1.7	2612
Middle	23.9	84.7	31.1	0.4	90.4	31.9	1.9	2658
Fourth	29.9	77.6	30.7	9.5	77.2	21.5	2.9	2743
Richest	42.0	74.8	49.8	20.2	91.6	35.8	9.8	2756
Ethnicity of household head								
Hausa	23.9	80.6	27.1	3.4	90.2	41.1	1.5	6413
Igbo	46.3	77.6	33.1	3.8	88.8	16.9	7.4	1452
Yoruba	37.3	85.6	43.8	5.8	74.9	27.9	8.4	1993

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Other ethnic group	33.3	74.1	36.3	4.0	88.1	14.3	3.5	3747
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[1] SDG indicator 6.1.1 - Use of safely managed drinking water sources

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VIII. Reproductive Health

Fertility

Table RH.1: Fertility rates			
Adolescent birth rate, age-specific and total fertility rates, the general fertility rate, and the crude birth rate for the three-year period preceding the survey, by area, Nigeria, 2016-17			
	Urban	Rural	Total
Age (Years)			
15-19 ¹	59	154	120
20-24	190	264	238
25-29	253	269	263
30-34	227	238	234
35-39	155	170	165
40-44	79	110	99
45-49	26	62	49
TFR ^a	4.9	6.3	5.8
GFR ^b	157.2	202.9	186.5
CBR ^c	33.8	39.6	37.7
¹ MICS indicator 5.1; MDG indicator 5.4 - Adolescent birth rate			
^a TFR: Total fertility rate expressed per woman age 15-49 years			
^b GFR: General fertility rate expressed per 1,000 women age 15-49 years			
^c CBR: Crude birth rate expressed per 1,000 population			

Table RH.2: Adolescent birth rate and total fertility rate		
Adolescent birth rates and total fertility rates for the three-year period preceding the survey, Nigeria, 2016-17		
	Adolescent birth rate ¹ (Age-specific fertility rate for women age 15-19 years)	Total fertility rate
Total	120	5.83
Geopolitical zone		
North Central	91	5.33
North East	146	6.35
North West	176	7.26

South East	38	4.62
South South	53	4.27
South West	43	4.42
Education		
None	228	7.22
Non-formal	232	7.58
Primary	184	6.24
Secondary	51	4.77
Higher	9	3.67
Wealth index quintile		
Poorest	199	7.42
Second	171	6.79
Middle	131	5.95
Fourth	79	5.25
Richest	35	4.30
Ethnicity of household head		
Hausa	173	7.09
Igbo	38	4.55
Yoruba	40	4.33
Other ethnic groups	85	5.06
¹ MICS indicator 5.1; MDG indicator 5.4 - Adolescent birth rate		

Table RH.2: Adolescent birth rate and total fertility rate; (continued)

Adolescent birth rates and total fertility rates for the *three-year* period preceding the survey, Nigeria, 2016-17

	Adolescent birth rate ¹ (Age-specific fertility rate for women age 15-19 years)	Total fertility rate
Total	120	5.8
State Abia	37	5.1
Adamawa	113	5.5
Akwa Ibom	67	4.5

Anambra	40	4.3
Bauchi	186	6.8
Bayelsa	78	4.8
Benue	79	4.8
Borno	128	6.1
Cross River	68	4.4
Delta	57	5.2
Ebonyi	53	5.2
Edo	42	3.8
Ekiti	60	4.4
Enugu	23	3.8
Gombe	181	7.3
Imo	36	5.1
Jigawa	186	8.5
Kaduna	134	5.6
Kano	169	7.7
Katsina	218	7.5
Kebbi	157	7.7
Kogi	36	3.7
Kwara	70	4.4
Lagos	21	4.0
Nasarawa	101	5.7
Niger	138	6.4
Ogun	50	4.5
Ondo	47	4.5
Osun	57	4.7
Oyo	54	4.9

Plateau	94	5.6
Rivers	18	3.3
Sokoto	174	7.3
Taraba	81	5.5
Yobe	159	6.8
Zamfara	208	7.3
FCT Abuja	39	4.6
¹ MICS indicator 5.1; MDG indicator 5.4 - Adolescent birth rate		

() Sample data are based on 25-29 unweighted cases

(*) Sample data are fewer than 25 unweighted cases

Table RH.3: Early childbearing

Percentage of women age 15-19 years who have had a live birth, are pregnant with the first child, have begun childbearing, and who have had a live birth before age 15, and percentage of women age 20-24 years who have had a live birth before age 18, Nigeria, 2016-17

Percentage of women age 15-19 years who:				Percentage of women age 20-24	
Have had a live birth	Are pregnant age with first child	Have begun childbearing	live birth before age 15	Number of women age 15-19 years	Number of women 20-24 years
			before age 15	years who have had a live birth before age 18 ¹	

Total	15.8	3.3	19.2	3.1	6,822	30.8	5,816
Geopolitical zone							
North Central	10.1	2.8	12.9	1.8	1,184	25.7	1,028
North East	17.9	3.4	21.3	3.2	1,343	41.8	1,190
North West	25.9	5.5	31.4	5.6	2,325	45.7	1,882
South East	5.4	1.5	6.9	0.9	523	5.7	399
South South	7.2	1.4	8.6	0.7	702	14.5	588
South West	5.1	0.8	5.9	0.6	745	8.0	729
Residence							
Urban	5.1	1.2	6.3	0.6	2,569	17.3	2,062
Rural	22.3	4.7	27.0	4.6	4,253	38.2	3,754
Education							
None	38.4	6.7	45.0	7.6	1,024	52.5	1,191
Non-formal	35.6	8.7	44.3	8.6	833	57.9	901
Primary	22.5	3.9	26.4	4.8	708	50.2	605
Secondary	5.6	1.5	7.1	0.6	4,088	13.1	2,413
Higher	0.4	0.0	0.4	0.0	168	3.0	705
Wealth index quintile							
Poorest	29.8	5.1	35.0	8.1	1,042	54.7	947
Second	24.6	6.0	30.7	5.0	1,317	42.5	1,190
Middle	17.3	3.7	21.0	3.0	1,525	34.2	1,186
Fourth	8.4	1.9	10.3	0.6	1,414	21.6	1,222
Richest	4.1	0.8	4.9	0.3	1,525	7.6	1,271
Ethnicity of household head							
Hausa	23.7	4.9	28.7	4.8	3,274	47.0	2,815
Igbo	4.7	1.1	5.8	0.8	692	6.1	564
Yoruba	4.6	0.9	5.5	0.5	752	7.2	672
Other ethnic groups	11.2	2.5	13.7	2.0	2,104	21.8	1,765
<i>¹ MICS indicator 5.2 - Early childbearing</i>							

Table RH.3: Early childbearing (continued)

Percentage of women age 15-19 years who have had a live birth, are pregnant with the first child, have begun childbearing, and who have had a live birth before age 15, and percentage of women age 20-24 years who have had a live birth before age 18, Nigeria, 2016-17

	Percentage of women age 15-19 years who:				Percentage of		
	Have had a live birth age 15-19 years	Are pregnant with first child	Have begun childbearing	Have had a live birth before age 15	Number of women age 15-19 years	years who have had a live birth before age 18 ¹	Number of women 20-24
Total	15.8	3.3	19.2	3.1	6,822	30.8	5,816
State							
Abia	7.8	1.1	8.9	1.6	59	9.2	50
Adamawa	17.8	3.3	21.1	3.9	162	26.7	148
Akwa Ibom	10.8	2.0	12.8	0.0	154	19.1	171
Anambra	5.3	1.1	6.4	0.5	125	1.1	103
Bauchi	29.2	8.2	37.3	3.3	315	53.4	292
Bayelsa	13.5	4.4	18.0	1.1	51	28.3	39
Benue	9.3	3.5	12.8	1.5	198	25.3	170
Borno	10.1	0.0	10.1	0.6	411	40.2	373
Cross River	6.5	1.5	8.0	0.0	152	15.7	95
Delta	7.8	1.0	8.8	2.4	112	15.6	91
Ebonyi	7.5	0.0	7.5	3.2	101	6.7	66
Edo	3.5	0.0	3.5	0.7	90	8.4	73
Ekiti	9.8	0.0	9.8	0.0	33	8.6	34
Enugu	3.4	3.6	7.0	0.0	111	5.4	87
Gombe	26.3	3.9	30.2	10.0	116	43.3	116
Imo	4.7	1.2	5.9	0.0	127	8.6	92
Jigawa	25.3	6.4	31.7	3.8	269	54.6	212
Kaduna	21.4	6.1	27.6	6.0	501	33.3	358
Kano	19.2	4.8	24.0	4.3	560	44.3	412
Katsina	34.9	3.4	38.3	3.6	351	49.0	378
Kebbi	17.7	4.4	22.2	1.6	199	39.6	162
Kogi	6.9	0.6	7.5	2.0	151	13.7	98
Kwara	14.9	2.6	17.6	2.5	78	16.0	77
Lagos	3.1	0.1	3.3	0.0	222	4.6	266
Nasarawa	9.8	3.3	13.1	2.4	145	27.9	139
Niger	11.0	5.4	16.4	1.3	269	36.7	265
Ogun	5.4	0.9	6.3	0.9	85	5.8	70
Ondo	5.9	0.6	6.5	1.5	117	12.6	89
Osun	7.3	1.7	9.0	1.7	136	8.1	115
Oyo	4.5	1.2	5.7	0.0	153	11.9	155
Plateau	11.6	0.7	12.3	1.6	270	23.2	227
Rivers	3.6	0.8	4.4	0.6	143	5.1	119
Sokoto	31.5	8.0	39.5	7.2	175	52.1	145
Taraba	9.5	1.2	10.7	0.9	115	32.7	91
Yobe	16.6	3.6	20.3	5.1	224	42.7	169
Zamfara	39.4	6.3	45.7	13.9	270	55.1	216
FCT Abuja	6.0	2.3	8.2	2.0	74	12.9	52

¹ MICS indicator 5.2 - Early childbearing

Table RH.4: Trends in early childbearing

Percentage of women who have had a live birth, by age 15 and 18, by area and age group, Nigeria, 2016-17

	Urban		Rural				All					
	Percentage Number of women with a live birth before age 15- years	Number of women with a live birth before age 20- years	Percentage Number of women with a live birth before age 15- age 18	Percentage Number of women with a live birth before age 20- age 18	Percentage Number of women with a live birth before age 15- age 15	Percentage Number of women with a live birth before age 20- age 15	Percentage Number of women with a live birth before age 18	Percentage Number of women with a live birth before age 20- age 18	Percentage Number of women with a live birth before age 15- age 15	Percentage Number of women with a live birth before age 20- age 15	Percentage Number of women with a live birth before age 18	Percentage Number of women with a live birth before age 20- age 18
Total	4.9	12373	20.2	9804	9.6	22003	35.2	17750.2	7.9	34376.0	29.8	27,554
Age (Years)												
15-19	0.6	2,569	na		4.6	4253	na		3.1	6822	na	
20-24	4.1	2062	17.3	2062	8.6	3754	38.2	3754	7.0	5816	30.8	5,816
25-29	6.9	2051	20.9	2051	11.4	3864.	36.1	3864	9.8	5915	30.9	5,915
30-34	4.9	1963	19.6	1963	12.4	3428	39.3	3427	9.7	5390	32.1	5,390
35-39	6.9	1569	20.1	1569	10.6	2770	33.6	2770	9.3	4339	28.7	4,339
40-44	7.1	1286	21.1	1286.	12.6	2285	31.3	2285	10.6	3571	27.6	3,571
45-49	8.4	874	25.5	874	9.0	1651	25.6	1651	8.8	2524	25.6	2,524
<i>na: not applicable</i>												

Contraception

Table RH.5: Use of contraception

Percentage of women age 15-49 years currently married or in union who are using (or whose partner is using) a contraceptive method, Nigeria, 2016-17

	currently married											partner is using						Any method ¹ Number of women age 15- years currently married or in union	
	No method	Female sterilization	Male sterilization	IUD	Injectables	Implants	Pill	Male condom	Female condom	Diaphragm/Foam/Jelly	LAM	Periodic abstinence	Withdrawal	Other	Any modern method	Any traditional method			
Total	86.6	0.2	0.0	0.7	4.3	1.4	2.3	1.1	0.1	0.1	0.6	1.0	0.9	0.7	10.8	2.6	13.4	24,373	
Geopolitical zone																			
North Central	83.4	0.3	0.0	0.8	6.0	2.0	2.3	1.5	0.1	0.0	0.8	1.1	0.7	1.0	13.8	2.8	16.6	4,228	
North East	92.4	0.2	0.0	0.2	2.5	0.7	1.3	0.0	0.0	0.1	1.0	0.2	0.3	1.0	6.1	1.5	7.6	4,852	
North West	91.6	0.1	0.0	0.3	3.4	1.0	2.1	0.2	0.0	0.1	0.1	0.1	0.4	0.5	7.4	1.0	8.4	8,815	
South East	76.7	0.4	0.0	0.6	3.8	1.9	1.9	3.6	0.2	0.5	1.9	5.0	3.4	0.1	14.7	8.6	23.3	1,310	
South South	83.3	0.2	0.0	0.5	3.9	2.0	2.5	1.2	0.1	0.0	0.6	3.3	1.5	0.6	11.2	5.5	16.7	2,064	
South West	74.2	0.3	0.0	2.6	7.9	2.1	4.4	3.3	0.2	0.1	0.8	1.4	2.0	0.8	21.7	4.1	25.8	3,103	
Residence																			
Urban	78.9	0.2	0.0	1.6	6.5	2.4	4.1	2.2	0.1	0.1	0.5	1.4	1.3	0.5	17.9	3.3	21.1	7,507	
Rural	90.0	0.2	0.0	0.3	3.3	1.0	1.5	0.5	0.0	0.1	0.7	0.8	0.7	0.8	7.7	2.3	10.0	16,866	
Age (Years)																			
15-19	97.8	0.0	0.0	0.0	0.3	0.0	0.6	0.4	0.0	0.0	0.5	0.0	0.2	0.2	1.8	0.4	2.2	1,513	
20-24	91.0	0.0	0.0	0.2	2.8	0.7	1.4	0.7	0.1	0.2	1.1	0.6	0.7	0.5	7.1	1.8	9.0	3,635	
25-29	87.8	0.1	0.0	0.5	4.0	1.3	2.4	1.1	0.1	0.0	0.7	0.5	0.7	0.6	10.3	1.9	12.2	4,967	
30-34	84.2	0.2	0.0	0.6	5.0	1.8	3.0	1.4	0.1	0.1	0.8	1.2	1.1	0.5	13.1	2.7	15.8	4,867	

35-39	83.7	0.4	0.01.1	4.9	1.9	2.3	1.4	0.1	0.2	0.6	1.4	1.1	0.9	12.8	3.4	16.3	3,928
40-44	82.4	0.3	0.01.3	6.1	1.6	3.0	1.0	0.0	0.1	0.1	1.6	1.1	1.3	13.6	4.0	17.6	3,252
45-49	85.4	0.4	0.0 1.1	5.1	1.8	2.2	0.5	0.0	0.1	0.2	1.4	0.7	1.1	11.5	3.1	14.6	2,210

Table RH.5: Use of contraception (continued)

Percentage of women age 15-49 years currently married or in union who are using (or whose partner is using) a contraceptive method, Nigeria, 2016-17

	Percent of women using														Number of women age 15-49 years currently married or in union		
	No method	Female sterilization	Male sterilization	IUD	Injectables	Implants	Pill	Male condom	Female condom	Diaphragm/Foam/Jelly	LAM	Periodic abstinence	Withdrawal	Other		Any modern method	Any traditional method
Number of living children																	
0	98.3	0.0	0.0	0.0	0.4	0.0	0.4	0.4	0.1	0.0	0.0	0.1	0.2				
1	92.6	0.1	0.0	0.2	1.9	0.4	1.2	1.0	0.1	0.0	0.8	0.6	0.7	0.1	1.4	0.3	1.7
2	88.5	0.1	0.0	0.5	2.8	1.2	2.2	1.2	0.0	0.1	0.7	0.9	1.5	0.3	5.8	1.6	7.4
3	83.3	0.3	0.0	1.0	5.7	1.9	2.4	1.4	0.1	0.1	0.8	1.2	1.1	0.6	13.7	3.0	16.7
4+	83.4	0.3	0.0	0.9	5.7	1.8	2.9	1.0	0.0	0.2	0.6	1.2	0.7	1.1	13.5	3.1	16.6
Education																	
None	93.1	0.2	0.0	0.2	2.0	0.6	0.9	0.2	0.0	0.0	0.6	0.4	0.4				
Non-formal	96.4	0.0	0.0	0.1	1.5	0.1	0.9	0.1	0.0	0.0	0.1	0.2	0.1	1.3	4.8	2.1	6.9
Primary	83.6	0.3	0.0	0.8	5.6	1.6	2.9	1.0	0.0	0.2	1.0	1.3	1.1	0.4	2.9	0.7	3.6
Secondary	78.6	0.2	0.0	1.1	7.3	2.7	3.6	2.0	0.1	0.2	0.9	1.5	1.5	0.7	13.4	3.0	16.4
Higher	71.0	0.4	0.0	2.3	7.2	3.0	5.3	3.9	0.3	0.2	0.5	3.1	2.2	0.5	23.1	5.8	29.0
Wealth index quintile																	
Poorest	95.8	0.0	0.0	0.0	1.3	0.1	0.7	0.1	0.0	0.0	0.3	0.2	0.2				
Second	92.0	0.3	0.0	0.3	2.3	0.8	1.2	0.2	0.0	0.2	0.7	0.4	0.7	1.2	2.6	1.6	4.2
Middle	88.6	0.2	0.0	0.4	4.5	1.2	2.0	0.6	0.0	0.1	0.6	0.8	0.5	0.8	6.0	1.9	8.0
Fourth	81.6	0.2	0.0	0.9	6.2	2.1	3.2	1.6	0.2	0.1	0.8	1.4	1.3	0.6	9.5	1.9	11.4
Richest	73.6	0.4	0.0	2.0	7.8	3.0	4.8	2.9	0.1	0.2	0.7	2.3	1.7	0.4	21.9	4.6	26.4
Ethnicity of household head																	

Hausa	92.4	0.1	0.0	0.3	2.6	0.6	1.9	0.2	0.0	0.1	0.5	0.1	0.3	0.7	6.4	1.2	7.6	12,683
Igbo	77.2	0.3	0.0	0.9	3.9	2.2	2.1	3.6	0.4	0.3	1.4	4.2	3.1	0.3	15.2	7.6	22.8	1,999
Yoruba	72.9	0.4	0.0	2.7	8.6	2.2	5.1	3.3	0.0	0.1	0.7	1.2	2.0	0.7	23.2	3.9	27.1	2,811
Other ethnic groups	84.3	0.2	0.0	0.5	5.7	2.4	2.0	0.9	0.1	0.1	0.6	1.6	0.7	0.8	12.6	3.1	15.7	6,880

1 MICS indicator 5.3; MDG indicator 5.3 - Contraceptive prevalence rate

Table RH.5: Use of contraception (continued)

Percentage of women age 15-49 years currently married or in union who are using (or whose partner is using) a contraceptive method, Nigeria, 2016-17

	No method	Female sterilization	Male sterilization	IUD	Injectables	Implants	Pill	Male condom	Female condom	Diaphragm/Foam/Jelly	LAM	Periodic abstinence	Withdrawal	Other Any modern method	Any traditional method	Any method ¹	Number of women age 15-years currently married or in union						
Percent of women currently married or in union who are using (or whose partner is using):																							
Total State	86.6	0.2	0.0	0.7	4.3	1.4	2.3	1.1	0.1	0.1	0.6	1.0	0.9	0.7	10.8	2.6	13.4	24,373					
Abia	83.4	0.0	0.0	1.1	3.9	0.5	1.8	1.1	0.0	0.0	1.1	5.8	1.4	0.0	9.5	7.1	16.6	197					
Adamawa	90.9	0.6	0.0	0.5	3.9	0.4	1.2	0.3	0.1	0.3	0.0	0.5	1.0	0.5	7.1	2.0	9.1	612					
Akwa Ibom	84.3	0.3	0.0	0.0	5.9	1.0	2.2	1.3	0.2	0.0	0.0	3.7	1.0	0.2	10.8	4.9	15.7	457					
Anambra	71.8	0.6	0.0	0.0	1.9	3.4	2.2	5.0	1.0	0.0	0.0	2.8	7.1	4.2	0.0	16.9	11.3	28.2	322				
Bauchi	88.1	0.5	0.0	0.0	1.6	1.2	1.5	0.0	0.0	0.0	0.2	2.4	1.0	1.7	0.0	0.0	0.0	0.2	3.5	0.1	0.3	3.1	
Bayelsa	85.4	0.0	0.0	0.5	1.2	2.0	3.2	1.0	0.2	0.0	1.9	2.6	0.7	1.3	10.0	4.6	14.6	143					
Benue	81.9	0.7	0.0	0.0	3.3	5.5	1.1	3.3	0.1	0.0	0.0	1.9	1.7	0.7	13.9	4.2	18.1	650					
Borno	94.2	0.0	0.0	0.2	2.4	1.0	1.7	0.0	0.0	0.0	0.2	2.4	1.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.1	5.3
Cross River	77.0	0.6	0.2	0.6	4.7	5.9	2.1	1.8	0.0	0.0	0.2	4.9	1.1	0.9	16.1	7.0	23.0	391					
Delta	89.1	0.0	0.0	0.8	3.5	0.8	2.6	0.3	0.0	0.0	0.0	1.5	1.0	0.4	8.0	2.9	10.9	354					
Ebonyi	97.0	0.3	0.2	0.0	0.5	0.4	0.0	0.0	0.0	0.3	0.4	0.5	0.3	0.2	2.1	0.9	3.0	212					
Edo	84.3	0.0	0.0	1.5	2.4	0.4	3.5	1.0	0.0	0.2	1.0	3.1	2.6	0.0	10.0	5.7	15.7	296					
Ekiti	68.6	0.6	0.3	4.0	7.7	1.7	1.6	7.3	0.0	0.2	0.7	2.1	3.4	1.3	24.4	6.8	31.4	143					
Enugu	77.9	0.5	0.0	0.2	8.2	2.7	1.4	2.8	0.0	0.9	1.4	3.7	0.2	0.2	18.0	4.1	22.1	232					
Gombe	93.4	0.0	0.0	0.3	3.4	0.9	0.7	0.1	0.0	0.0	0.7	0.1	0.0	0.3	6.0	0.4	6.6	440					
Imo	64.2	0.2	0.0	1.5	4.4	1.7	3.3	6.4	0.0	1.1	2.6	6.3	7.9	0.2	21.3	14.5	35.8	345					
Jigawa	98.7	0.0	0.0	0.4	0.4	0.0	0.4	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.1	
Kaduna	75.9	0.0	0.0	0.7	9.5	3.4	6.7	1.1	0.1	0.1	0.3	0.2	1.9	0.1	21.9	2.2	24.1	1,475					
Kano	93.7	0.0	0.0	0.4	2.2	0.7	2.2	0.0	0.0	0.1	0.2	0.2	0.0	0.4	5.7	0.6	6.3	1,862					
Katsina	93.7	0.4	0.0	0.2	3.1	0.2	0.6	0.1	0.0	0.4	0.0	0.0	0.0	0.0	1.5	4.9	1.5	6.3	1,671				
Kebbi	93.7	0.1	0.1	0.0	2.8	0.6	1.2	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.1	0.0	0.1	0.4	0.8	5.0			
Kogi	93.3	0.3	0.0	0.0	3.5	0.3	2.0	0.1	0.0	0.0	0.0	0.0	0.0	0.3	6.2	0.3	6.7	357					
Kwara	72.9	0.0	0.0	1.2	7.3	2.3	3.9	5.1	0.0	0.0	3.9	2.1	1.2	0.0	23.7	3.4	27.1	357					
Lagos	77.4	0.7	0.0	2.1	4.6	1.9	4.0	3.6	0.4	0.0	0.2	4.2	1.0	0.8	17.4	5.3	22.6	1,097					
Nasarawa	83.0	0.0	0.0	1.0	7.2	4.0	1.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.9	1.2	13.8					
Niger	88.8	0.0	0.0	1.0	2.9	0.0	2.2	0.6	0.1	0.0	1.3	1.2	0.1	1.9	8.1	3.2	11.2	1,227					
Ogun	78.7	0.0	0.0	1.0	8.1	1.7	5.0	2.3	0.0	0.1	0.0	0.4	0.8	1.9	18.2	3.2	21.3	327					
Ondo	78.2	0.0	0.0	3.0	5.5	1.7	3.0	3.6	0.3	0.0	1.6	0.5	2.6	0.0	18.8	3.1	21.8	404					
Osun	75.4	0.2	0.0	3.3	11.2	1.5	3.8	2.7	0.0	0.2	0.0	0.5	0.7	0.6	22.9	1.7	24.6	382					
Oyo	65.8	0.2	0.0	3.3	12.3	3.3	6.0	2.5	0.0	0.1	2.2	1.2	2.3	0.6	30.0	4.2	34.2	751					
Plateau	79.9	0.3	0.1	1.0	12.1	1.6	3.1	0.4	0.1	0.2	0.4	0.2	0.4	0.3	19.2	0.9	20.1	894					
Rivers	82.0	0.2	0.0	0.0	3.5	1.7	2.5	1.7	0.2	0.0	1.2	3.4	2.5	1.1	11.0	7.0	18.0	423					
Sokoto	95.3	0.0	0.0	0.0	2.7	0.5	1.5	0.0	0.0	0.0	0.0	0.1	0.0	0.0	4.6	0.1	4.7	784					
Taraba	93.3	0.1	0.0	0.2	4.3	0.2	0.5	0.1	0.0	0.1	0.0	0.7	0.0	0.4	5.6	1.1	6.7	364					
Yobe	96.5	0.0	0.0	0.0	1.8	0.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.2	5.0		
Zamfara	94.4	0.0	0.0	0.4	1.8	1.2	1.1	0.2	0.0	0.1	0.1	0.2	0.0	0.1	0.1	0.2	0.2	0.2	5.0				
FCT Abuja	73.8	1.6	0.0	1.4	5.9	1.7	2.7	5.0	0.4	0.0	1.3	2.4	1.3	2.6	19.9	6.3	26.2	213					

¹ MICS indicator 5.3; MDG indicator 5.3 - Contraceptive prevalence rate

Unmet Need

Table RH.6: Unmet need for contraception

Percentage of women age 15-49 years currently married or in union with an unmet need for family planning and percentage of demand for contraception satisfied, Nigeria, 2016-17

Met need for contraception			Unmet need for contraception			Number of women of demand currently married or in union	Percentage for contraception satisfied	Number of women currently married or in union with need for contraception
For spacing	For limiting	Total	For spacing	For limiting	Total ¹			

Total	7.5	5.9	13.4	18.5	9.1	27.6	24,373	32.7	9,991
Geopolitical zone									
North Central	9.0	7.6	16.6	16.6	9.7	26.3	4,228	38.7	1,815
North East	4.9	2.7	7.6	20.3	6.6	26.9	4,852	22.1	1,674
North West	6.0	2.4	8.4	20.0	6.9	26.9	8,815	23.8	3,116
South East	8.4	14.9	23.3	12.6	12.1	24.7	1,310	48.6	628
South South	8.7	7.9	16.7	20.2	15.2	35.5	2,064	32.0	1,076
South West	12.3	13.5	25.8	15.3	13.1	28.4	3,103	47.7	1,682
Residence									
Urban	11.0	10.1	21.1	17.3	10.1	27.5	7,507	43.5	3,647
Rural	5.9	4.0	10.0	19.0	8.6	27.7	16,866	26.5	6,344
Age (Years)									
15-19	2.2	0.0	2.2	22.3	1.7	24.0	1,513	8.3	395
20-24	8.7	0.3	9.0	25.6	2.3	27.9	3,635	24.3	1,341
25-29	10.1	2.0	12.2	23.4	4.5	27.9	4,967	30.3	1,992
30-34	10.7	5.1	15.8	20.5	9.4	29.9	4,867	34.6	2,226
35-39	6.9	9.3	16.3	16.1	14.4	30.5	3,928	34.8	1,837
40-44	4.2	13.4	17.6	9.9	17.4	27.3	3,252	39.1	1,460
45-49	2.0	12.5	14.6	5.5	13.4	18.9	2,210	43.5	739
Education									
None	4.1	2.9	6.9	18.9	8.2	27.0	6,972	20.3	2,367
Non-formal	2.7	0.9	3.6	20.1	7.6	27.6	5,039	11.6	1,574
Primary	8.1	8.3	16.4	16.8	11.8	28.6	4,011	36.5	1,805
Secondary	12.5	8.9	21.4	19.4	9.7	29.1	6,278	42.4	3,170
Higher	14.5	14.5	29.0	14.0	8.8	22.9	2,072	55.9	1,075
Wealth index quintile									

Poorest	3.0	1.2	4.2	19.7	7.4	27.1	5,282	13.5	1,654
Second	4.9	3.0	8.0	18.8	8.2	27.0	5,195	22.8	1,817
Middle	6.8	4.5	11.4	18.9	9.0	27.9	4,584	28.9	1,803
Fourth	10.4	8.0	18.4	19.7	10.4	30.1	4,411	37.9	2,140
Richest	13.1	13.4	26.4	15.3	10.9	26.2	4,901	50.2	2,578
Ethnicity of household head									
Hausa	5.4	2.2	7.6	20.3	7.0	27.3	12,683	21.8	4,422
Igbo	9.7	13.1	22.8	13.8	12.0	25.8	1,999	46.9	972
Yoruba	12.9	14.2	27.1	15.0	12.3	27.3	2,811	49.8	1,530
Other ethnic groups	8.5	7.3	15.7	18.0	10.9	28.9	6,880	35.3	3,068

Table RH.6: Unmet need for contraception (continued)

Percentage of women age 15-49 years currently married or in union with an unmet need for family planning and percentage of demand for contraception satisfied, Nigeria, 2016-17

	Met need for contraception			Unmet need for contraception			Number of women currently married or in union	Percentage of demand for contraception satisfied	Number of women currently married or in union with need for contraception
	For spacing	For limiting	Total	For spacing	For limiting	Total ¹			
Total	7.5	5.9	13.4	18.5	9.1	27.6	24,373	32.7	9,991
State									
Abia	4.2	12.4	16.6	19.1	13.9	33.0	197	33.5	98
Adamawa	4.6	4.5	9.1	23.9	11.4	35.3	612	20.5	272
Akwa Ibom	12.0	3.7	15.7	25.4	15.0	40.5	457	28.0	256
Anambra	9.1	19.2	28.2	8.4	13.6	22.0	322	56.2	162
Bauchi	8.6	3.3	11.9	22.0	5.1	27.1	1,330	30.5	518
Bayelsa	7.9	6.7	14.6	23.7	13.5	37.2	143	28.2	74
Benue	9.9	8.2	18.1	13.8	9.9	23.6	650	43.5	271
Borno	3.1	2.6	5.8	21.4	4.5	25.9	1,240	18.3	392
Cross River	11.3	11.7	23.0	18.1	8.2	26.2	391	46.7	192
Delta	4.3	6.6	10.9	26.8	18.0	44.8	354	19.6	197
Ebonyi	1.4	1.5	3.0	16.8	13.0	29.8	212	9.1	70
Edo	7.6	8.1	15.7	15.6	23.5	39.0	296	28.7	162
Ekiti	12.9	18.6	31.4	13.1	13.0	26.1	143	54.6	82
Enugu	5.3	16.8	22.1	14.9	10.2	25.1	232	46.8	110
Gombe	4.4	2.2	6.6	21.6	6.3	27.8	440	19.2	151
Imo	16.7	19.0	35.8	8.7	10.2	19.0	345	65.4	189
Jigawa	0.4	0.9	1.3	19.5	7.0	26.5	1,110	4.8	308
Kaduna	17.4	6.7	24.1	17.5	4.5	22.0	1,475	52.3	680
Kano	5.0	1.3	6.3	25.0	5.8	30.8	1,862	17.1	691
Katsina	4.1	2.2	6.3	20.3	9.3	29.5	1,671	17.6	599
Kebbi	4.4	1.9	6.3	19.5	10.1	29.6	764	17.6	275

Kogi	2.9	3.8	6.7	19.9	13.5	33.5	357	16.7	144
Kwara	14.7	12.4	27.1	12.7	6.4	19.1	357	58.7	165
Lagos	9.3	13.3	22.6	17.4	12.2	29.6	1,097	43.3	573
Nasarawa	10.3	6.7	17.0	18.2	6.3	24.5	530	41.0	220
Niger	6.8	4.4	11.2	19.1	10.3	29.5	1,227	27.6	500
Ogun	9.1	12.3	21.3	18.6	14.6	33.2	327	39.1	178
Ondo	13.1	8.8	21.8	12.7	14.9	27.6	404	44.2	199
Osun	12.0	12.7	24.6	14.5	11.2	25.6	382	49.0	192
Oyo	17.9	16.3	34.2	12.9	13.8	26.7	751	56.1	457
Plateau	10.0	10.1	20.1	15.4	10.1	25.5	894	44.1	408
Rivers	7.6	10.4	18.0	13.3	14.4	27.7	423	39.4	193
Sokoto	3.5	1.2	4.7	23.6	7.0	30.6	784	13.2	277
Taraba	4.4	2.3	6.7	17.5	8.9	26.3	364	20.3	120
Yobe	2.5	1.0	3.5	13.9	8.0	21.9	866	13.8	220
Zamfara	4.2	1.4	5.6	13.2	6.1	19.3	1,149	22.5	286
FCT Abuja	11.9	14.3	26.2	13.1	11.0	24.1	213	52.2	107
<small>† MICS indicator 5.4; MDG indicator 5.6 - Unmet need</small>									

Antenatal Care

Table RH.7: Antenatal care coverage

Percent distribution of women age 15-49 years with a live birth in the last two years by antenatal care provider during the pregnancy for the last birth, Nigeria, 2016-17

	Provider of antenatal care ^a										Number of																	
	Nurse/ attendant	Auxiliary worker	birth Other	Traditional health care	Community antenatal Total provider ^{1,b}	No birth in the last two years	Any doctor	women with a live Midwife	Medical midwife																			
Total	26.5	34.9	4.4	0.8	1.5	0.2	31.6	100.0	65.8		11,547																	
Geopolitical zone																												
North Central	26.2	34.2	2.1	0.4	1.3	0.0	35.7	100.0	62.5		1,770																	
North East	19.5	42.9	4.6	0.2	1.4	0.0	31.4	100.0	67.0		2,394																	
North West	18.2	28.4	7.0	0.2	2.1	0.1	44.0	100.0	53.6	4,603	South East	44.5	46.2	0.7	0.6	0.7	0.0	7.3	100.0	91.3	620							
South South	43.7	35.4	2.0	5.2	0.6	0.0	13.1	100.0	81.0		900																	
South West	49.8	38.3	1.4	2.2	0.4	1.6	6.3	100.0	89.5		1,261																	
Residence																												
Urban	49.2	36.5	1.6	0.8	0.4	0.5	10.9	100.0	87.4		3,426																	
Rural	17.0	34.2	5.6	0.9	1.9	0.1	40.4	100.0	56.8		8,121																	
Mother's age at birth (Years)																												
Less than 20	18.0	32.6	7.0	0.8	1.8	0.1	39.7	100.0	57.6		1,516																	
20-34	28.0	35.2	4.1	0.8	1.4	0.2	30.3	100.0	67.3		7,969																	
Missing	27.2	35.5	3.7	0.9	1.7	0.2	30.9	100.0	66.4		2,062																	
Education																												
None	13.2	30.3	4.7	0.6	1.3	0.1	49.9	100.0	48.2	3,208	Non-formal	11.4	26.6	6.6	0.2	2.8	0.0	52.4	100.0	44.6	2,560	Primary	26.1	41.5	5.9	2.0		
	1.9	0.2	22.4	100.0	73.6	1,716																						
Secondary	41.0	44.5	2.2	1.2	0.7	0.4	9.9	100.0	87.7		3,182																	
Higher	68.0	28.0	1.8	0.2	0.1	0.4	1.4	100.0	97.9		882																	
Wealth index quintile																												
Poorest	7.0	20.1	6.5	0.4	2.5	0.1	63.4	100.0	33.6	2,587	Second	12.7	33.9	7.3	0.7	2.3	0.1	43.1	100.0	53.9	2,548							
Middle	24.1	42.6	4.2	1.0	1.3	0.2	26.7	100.0	70.8		2,270																	
Fourth	37.1	47.5	1.8	1.3	0.8	0.4	11.1	100.0	86.4		2,113																	
Richest	60.6	33.2	1.2	0.9	0.1	0.3	3.7	100.0	95.0		2,028																	
Ethnicity of household head																												
Hausa	19.1	30.7	5.8	0.1	2.0	0.0	42.1	100.0	55.7	6,543	Igbo	50.1	40.8	0.7	0.6	0.8	0.0	7.0	100.0	91.6	923	Yoruba	48.3	38.5	2.1	2.8	0.3	1.9
	6.2	100.0	88.9	1,096																								
Other ethnic group	27.5	40.9	3.3	1.8	0.9	0.0	25.6	100.0	71.7		2,985																	

¹ MICS indicator 5.5a; MDG indicator 5.5 - Antenatal care coverage

^a

Only the most qualified provider is considered in cases where more than one provider was reported.

^b Skilled providers include Medical doctor and Nurse/Midwife.

Table RH.7: Antenatal care coverage (continued)

Percent distribution of women age 15-49 years with a live birth in the last two years by antenatal care provider during the pregnancy for the last birth, Nigeria, 2016-17

	Provider of antenatal care ^a										Number of women with a live birth in the last two years
	Traditional Community					No					
	Medical Nurse/ worker	Auxiliary birth care	health antenatal	Any skilled live birth	in the doctor	Midwife	midwife attendant				
Total	26.5	34.9	4.4	0.8	1.5	0.2	31.6	100.0	65.8	11,547	
State											
Abia	26.1	64.6	0.0	0.5	0.0	0.0	8.7	100.0	90.7	99	
Adamawa	17.4	55.3	7.5	0.0	0.9	0.0	19.0	100.0	80.1	264	
Akwa Ibom	55.5	25.0	0.0	6.3	0.0	0.0	13.2	100.0	80.5	228	
Anambra	66.7	31.7	0.0	0.0	0.4	0.0	1.3	100.0	98.3	140	
Bauchi	8.6	46.7	4.5	0.4	1.6	0.0	38.2	100.0	59.8	618	
Bayelsa	31.9	29.6	0.7	14.0	0.3	0.5	23.1	100.0	62.2	73	
Benue	29.1	36.3	2.1	0.0	1.2	0.0	31.4	100.0	67.5	271	
Borno	40.4	45.1	3.6	0.0	0.0	0.0	10.9	100.0	89.1	692	
Cross River	34.4	39.8	6.8	5.3	1.5	0.0	12.2	100.0	81.0	162	
Delta	34.5	42.2	0.7	4.3	0.8	0.0	17.5	100.0	77.4	173	
Ebonyi	25.1	46.1	3.8	2.2	1.2	0.0	21.6	100.0	75.0	111	
Edo	54.1	36.4	1.0	1.4	1.7	0.0	5.4	100.0	91.5	101	
Ekiti	24.6	58.7	4.5	1.0	1.1	1.7	8.3	100.0	87.9	54	
Enugu	44.6	48.4	0.0	0.8	1.1	0.0	5.1	100.0	93.0	105	
Gombe	12.9	43.2	11.4	0.0	4.6	0.0	27.9	100.0	67.5	236	
Imo	49.6	46.1	0.0	0.0	1.0	0.0	3.4	100.0	95.7	164	
Jigawa	19.3	21.8	9.9	0.2	6.5	0.0	42.3	100.0	51.0	595	
Kaduna	33.4	33.2	9.5	0.5	0.0	0.0	23.4	100.0	76.1	663	
Kano	17.6	40.0	7.5	0.3	4.6	0.1	29.9	100.0	65.1	1,038	
Katsina	14.0	27.5	3.6	0.0	0.0	0.3	54.6	100.0	45.1	916	
Kebbi	10.6	21.5	13.3	0.2	1.6	0.0	52.9	100.0	45.4	398	
Kogi	37.6	40.7	2.1	0.5	1.0	0.0	18.1	100.0	80.4	133	
Kwara	45.1	23.0	6.7	4.3	0.6	0.0	20.3	100.0	74.8	115	
Lagos	68.3	22.9	1.1	3.6	0.4	0.7	3.1	100.0	92.2	429	
Nasarawa	26.5	35.7	5.7	0.0	1.4	0.0	30.7	100.0	67.9	244	
Niger	10.9	35.7	1.2	0.4	2.6	0.0	49.1	100.0	47.9	527	
Ogun	40.7	44.0	0.6	3.4	0.0	2.2	9.0	100.0	85.3	132	
Ondo	40.1	44.7	0.3	1.1	0.0	1.0	12.8	100.0	85.0	163	
Osun	49.6	41.4	4.7	0.6	0.6	0.8	2.4	100.0	95.6	161	
Oyo	38.1	48.3	0.6	1.4	0.6	3.3	7.8	100.0	86.9	322	
Plateau	27.2	34.1	0.0	0.0	0.0	0.0	38.7	100.0	61.3	392	
Rivers	44.8	40.3	2.5	2.8	0.0	0.0	9.6	100.0	87.6	163	
Sokoto	16.9	17.0	1.3	0.0	1.0	0.0	63.9	100.0	35.1	409	
Taraba	10.4	34.2	0.7	0.0	3.9	0.0	50.9	100.0	45.2	173	
Yobe	9.4	29.2	2.6	0.3	1.1	0.0	57.4	100.0	41.2	410	
Zamfara	13.8	23.2	5.1	0.0	0.0	0.0	57.8	100.0	42.2	583	
FCT Abuja	61.7	20.6	0.5	0.0	1.1	0.0	16.1	100.0	82.8	89	

¹ MICS indicator 5.5a; MDG indicator 5.5 - Antenatal care coverage

a

Only the most qualified provider is considered in cases where more than one provider was reported.

^b Skilled providers include Medical doctor and Nurse/Midwife.

Table RH.8: Number of antenatal care visits and timing of first visit

Percent distribution of women age 15-49 years with a live birth in the last two years by number of antenatal care visits by any provider and by the timing of first antenatal care visits, Nigeria, 2016-17

Percent distribution of women who had:						Percent distribution of women by number of months at the time of first antenatal care visit						Number of pregnant women with a live birth in	Median the last two years who had at least one ANC visit	
No antenatal care visits	One visit	Two visits	Three visits	4 or more visits ¹	Missing/Don't know	No antenatal care visits	First trimester	4-5 months	6-7 months	8+ months	Missing/Don't know	Total two years	ANC visit	ANC visit
						Total								

Total	31.6	4.6	4.9	8.6	49.1	1.1	100.0	32.0	18.4	29.8	17.3	2.0	0.4	100.0	11,547	5.0	7,802
Geopolitical zone																	
North Central	35.7	3.8	5.0	8.4	46.7	0.5	100.0	36.0	23.4	27.1	11.5	1.8	0.3	100.0	1,770	4.0	1,129
North East	31.4	4.4	6.2	14.3	42.7	0.9	100.0	31.7	11.5	33.0	21.5	2.1	0.2	100.0	2,394	5.0	1,630
North West	44.0	6.2	5.2	7.8	35.4	1.3	100.0	44.7	12.5	23.6	16.3	2.2	0.8	100.0	4,603	5.0	2,512
South East	7.3	5.4	1.8	3.9	79.2	2.4	100.0	7.4	34.3	37.9	18.7	1.3	0.2	100.0	620	4.0	572
South South	13.1	2.3	4.8	7.7	71.4	0.7	100.0	13.1	24.7	36.6	22.3	3.2	0.1	100.0	900	5.0	781
South West	6.3	1.7	2.8	3.9	83.8	1.4	100.0	6.4	33.6	41.4	17.3	1.1	0.2	100.0	1,261	4.0	1,178
Residence																	
Urban	10.9	4.7	3.6	8.6	70.7	1.4	100.0	11.7	26.0	39.1	20.6	2.2	0.4	100.0	3,426	4.0	3,013
Rural	40.4	4.6	5.5	8.6	40.0	1.0	100.0	40.6	15.2	25.9	15.9	1.9	0.4	100.0	8,121	5.0	4,788
Mother's age at birth (Years)																	
Less than 20	39.7	6.1	5.4	9.2	38.1	1.4	100.0	40.1	16.1	27.8	13.8	2.0	0.3	100.0	1,516	5.0	904
20-34	30.3	4.4	4.8	8.7	50.8	0.9	100.0	30.7	18.9	30.6	17.5	1.9	0.5	100.0	7,969	4.0	5,487
Missing	30.9	4.3	4.8	7.9	50.5	1.6	100.0	31.2	18.1	28.3	19.4	2.6	0.3	100.0	2,062	5.0	1,411
Education																	
None	49.9	5.9	6.1	8.5	28.5	1.0	100.0	50.6	10.3	21.0	15.5	1.9	0.7	100.0	3,208	5.0	1,564
Non-formal	52.4	4.1	5.5	8.0	29.6	0.4	100.0	52.5	10.4	19.2	15.8	2.0	0.2	100.0	2,560	5.0	1,212
Primary	22.4	5.2	4.8	11.1	54.4	2.1	100.0	22.5	20.1	32.5	21.3	3.0	0.6	100.0	1,716	5.0	1,320
Secondary	9.9	3.7	4.2	8.9	72.0	1.2	100.0	10.3	26.3	41.8	19.3	1.9	0.3	100.0	3,182	4.0	2,843
Higher	1.4	3.5	1.6	4.2	87.6	1.6	100.0	1.9	39.4	43.9	13.5	1.1	0.3	100.0	882	4.0	863
Wealth index quintile																	
Poorest	63.4	4.1	4.4	6.0	21.5	0.7	100.0	63.9	7.9	13.9	12.1	2.0	0.2	100.0	2,587	5.0	929
Second	43.1	5.4	6.4	10.0	34.4	0.7	100.0	43.4	13.7	23.5	17.2	1.9	0.4	100.0	2,548	5.0	1,433
Middle	26.7	5.4	5.6	11.1	50.0	1.2	100.0	26.9	18.4	31.3	20.6	2.2	0.6	100.0	2,270	5.0	1,646
Fourth	11.1	4.5	5.1	10.4	67.0	1.8	100.0	11.5	23.1	42.4	19.9	2.6	0.5	100.0	2,113	4.0	1,860
Richest	3.7	3.6	2.7	5.4	83.2	1.5	100.0	4.1	32.8	43.2	17.8	1.5	0.6	100.0	2,028	4.0	1,933
Ethnicity of household head																	
Hausa	42.1	5.7	5.5	9.1	36.4	1.2	100.0	42.7	12.5	24.8	17.0	2.4	0.5	100.0	6,543	5.0	3,716
Igbo	7.0	4.3	2.2	3.6	81.1	1.8	100.0	7.1	34.1	39.0	18.5	1.2	0.2	100.0	923	4.0	855
Yoruba	6.2	2.4	2.5	4.1	83.1	1.7	100.0	6.4	33.3	43.2	15.6	1.2	0.3	100.0	1,096	4.0	1,023
Other ethnic group	25.6	3.2	5.4	10.7	54.5	0.6	100.0	25.7	21.1	32.9	18.2	1.7	0.3	100.0	2,985	4.0	2,208
¹ MICS indicator 5.5b; MDG indicator 5.5 - Antenatal care coverage																	

Table RH.8: Number of antenatal care visits and timing of first visit (continued)

Percent distribution of women age 15-49 years with a live birth in the last two years by number of antenatal care visits by any provider and by the timing of first antenatal care visits, Nigeria, 2016-17

	Percent distribution of women who had:						Percent distribution of women by number of months at the time of first antenatal care visit						Number of pregnant women with a live birth in the last two years	Median ANC visit at first ANC visit	women with a live birth in the last two years who had at least one ANC visit		
	No antenatal care visits	One visit	Two visits	Three visits	4 or more visits ¹	Missing/ Don't know	Total	No antenatal care visits	First trimester	4-5 months	6-7 months	8+ months				Missing/ Don't know	Total
Total	31.6	4.6	4.9	8.6	49.1	1.1	100.0	32.0	18.4	29.8	17.3	2.0	0.4	100.0	11,547	5.0	7,802
State																	
Abia	8.7	0.9	1.3	2.4	86.1	0.5	100.0	8.7	32.0	35.8	22.6	0.9	0.0	100.0	99	4.0	90
Adamawa	19.0	3.6	5.8	14.6	55.7	1.4	100.0	19.8	26.1	39.6	13.0	1.2	0.2	100.0	264	4.0	211
Akwa Ibom	13.2	2.0	7.2	10.8	66.7	0.0	100.0	13.2	14.2	41.9	29.4	1.2	0.0	100.0	228	5.0	198
Anambra	1.3	3.3	1.0	2.0	90.0	2.4	100.0	1.3	40.2	41.7	14.4	2.4	0.0	100.0	140	4.0	138
Bauchi	38.2	4.9	9.0	12.7	33.0	2.3	100.0	38.4	6.5	22.0	30.7	2.2	0.2	100.0	618	6.0	380
Bayelsa	23.1	1.3	8.0	4.8	62.9	0.0	100.0	23.1	26.1	27.4	21.0	2.2	0.3	100.0	73	4.0	56
Benue	31.4	3.4	6.3	9.7	48.2	1.1	100.0	31.4	29.6	23.7	12.1	2.7	0.5	100.0	271	4.0	185
Borno	10.9	3.4	4.6	19.2	61.9	0.0	100.0	10.9	12.0	50.1	22.8	4.1	0.0	100.0	692	5.0	617
Cross River	12.2	1.9	5.4	13.4	67.1	0.0	100.0	12.2	22.1	36.8	25.4	3.5	0.0	100.0	162	5.0	142
Delta	17.5	3.5	6.3	5.4	64.5	2.7	100.0	17.5	22.8	39.3	17.6	2.8	0.0	100.0	173	4.0	143
Ebonyi	21.6	2.1	2.2	11.5	57.7	4.9	100.0	22.3	26.1	32.6	16.5	1.4	0.9	100.0	111	4.0	85
Edo	5.4	3.1	1.6	6.3	83.7	0.0	100.0	5.4	34.9	32.4	16.6	10.1	0.6	100.0	101	4.0	95
Ekiti	8.3	2.4	1.1	1.5	86.1	0.6	100.0	9.6	27.8	44.4	15.1	3.1	0.0	100.0	54	4.0	49
Enugu	5.1	10.4	0.9	2.9	76.7	4.0	100.0	5.1	41.9	38.5	14.1	0.0	0.4	100.0	105	4.0	99
Gombe	27.9	10.2	9.3	17.8	34.1	0.6	100.0	29.8	14.9	38.1	14.9	1.3	1.0	100.0	236	5.0	163
Imo	3.4	9.1	3.0	1.9	81.9	0.6	100.0	3.4	31.3	39.2	24.6	1.4	0.0	100.0	164	4.0	159
Jigawa	42.3	7.6	5.7	7.2	36.3	0.9	100.0	45.0	16.3	20.4	15.4	2.6	0.3	100.0	595	5.0	326

Kaduna	23.4	17.5	2.4	9.0	43.8	3.8	100.0	23.8	25.8	32.5	16.4	1.3	0.3	100.0	663	4.0	504
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Table RH.8: Number of antenatal care visits and timing of first visit (continued)

Percent distribution of women age 15-49 years with a live birth in the last two years by number of antenatal care visits by any provider and by the timing of first antenatal care visits, Nigeria, 2016-17

State	Percent distribution of women who had:							Percent distribution of women by number of months pregnant at the time of first antenatal care visit							Number of women with a live birth in the last two years			
	No visits	visit	visits	visits	visits ¹	Missing/DK	Total	visits	trimester	months	months	months	DK/Missing	Total	Two years	Median visit	ANC one visit	ANC two visit
Kano	29.9	3.7	7.6	13.6	44.7	0.5	100.0	30.3	9.1	32.4	24.6	3.1	0.5	100.0	1,038	5.0	718	
Katsina	54.6	3.3	4.3	3.3	33.4	1.1	100.0	55.1	4.7	20.3	18.1	1.2	0.6	100.0	916	5.0	406	
Kebbi	52.9	7.0	7.5	8.3	20.9	3.5	100.0	53.3	15.9	14.1	6.7	5.3	4.6	100.0	398	4.0	168	
Kogi	18.1	7.7	5.4	8.5	57.0	3.3	100.0	20.1	27.1	35.4	13.1	2.3	2.1	100.0	133	4.0	104	
Kwara	20.3	0.6	3.0	8.9	66.6	0.6	100.0	20.3	21.4	45.5	11.5	1.2	0.0	100.0	115	5.0	91	
Lagos	3.1	0.8	0.5	1.4	94.2	0.1	100.0	3.1	42.5	43.1	11.0	0.1	0.2	100.0	429	4.0	415	
Nasarawa	30.7	6.7	3.4	8.7	50.2	0.3	100.0	31.6	28.5	26.9	11.6	1.1	0.3	100.0	244	4.0	166	
Niger	49.1	4.1	5.7	8.5	32.6	0.0	100.0	49.1	18.6	20.6	9.4	2.3	0.0	100.0	527	4.0	268	
Ogun	9.0	0.0	2.6	2.0	86.4	0.0	100.0	9.0	28.0	44.4	17.9	0.6	0.0	100.0	132	4.0	120	
Ondo	12.8	2.2	3.3	4.5	76.1	1.1	100.0	12.8	22.9	36.1	25.4	2.7	0.0	100.0	163	5.0	142	
Osun	2.4	0.0	3.3	2.1	92.2	0.0	100.0	2.4	32.9	42.5	21.1	1.2	0.0	100.0	161	4.0	157	
Oyo	7.8	4.3	5.9	9.0	68.3	4.8	100.0	7.8	30.9	39.6	19.8	1.3	0.6	100.0	322	4.0	295	
Plateau	38.7	2.1	4.9	7.8	46.5	0.0	100.0	38.7	20.7	26.2	13.5	0.9	0.0	100.0	392	4.0	240	
Rivers	9.6	1.6	0.0	2.2	85.8	0.8	100.0	9.6	36.8	32.9	18.4	2.3	0.0	100.0	163	4.0	148	
Sokoto	63.9	3.2	3.6	4.3	24.9	0.1	100.0	63.9	8.8	14.8	10.9	1.6	0.0	100.0	409	5.0	148	
Taraba	50.9	3.7	4.9	7.4	31.6	1.5	100.0	50.9	15.2	23.3	9.9	0.7	0.0	100.0	173	4.0	85	
Yobe	57.4	2.8	3.9	9.3	26.6	0.0	100.0	57.6	5.5	17.3	19.3	0.2	0.0	100.0	410	5.0	174	

Zamfara	57.8	2.8	4.6	5.7	29.0	0.2	100.0	57.8	12.3	18.9	9.4	1.2	0.4	100.0	583	4.0	243
FCT Abuja	16.1	1.2	3.2	4.1	75.2	0.2	100.0	16.1	28.3	44.8	9.8	1.0	0.0	100.0	89	4.0	75

¹ MICS indicator 5.5b; MDG indicator 5.5 - Antenatal care coverage

Table RH.9: Content of antenatal care

Percentage of women age 15-49 years with a live birth in the last two years who, at least once, had their blood pressure measured, urine sample taken, and blood sample taken as part of antenatal care, during the pregnancy for the last birth, Nigeria, 2016-17

Percentage of women who, during the pregnancy of their last birth, had:				
Blood pressure measured	Urine sample taken	Blood sample taken	Blood pressure measured, urine and blood sample taken ¹	Number of women with a live birth in the last two years

Total	62.2	57.6	58.4	53.6	11,547
Geopolitical zone					
North Central	61.1	56.8	57.1	53.4	1,770
North East	64.9	59.5	60.4	56.8	2,394
North West	48.2	44.3	44.5	39.5	4,603
South East	82.3	81.4	83.2	75.1	620
South South	76.8	72.2	75.1	68.9	900
South West	89.0	81.8	83.7	77.5	1,261
Residence					
Urban	84.9	82.9	82.9	78.7	3,426
Rural	52.6	47.0	48.1	42.9	8,121
Mother's age at birth (Years)					
Less than 20	52.1	47.6	49.2	43.2	1,516
20-34	63.8	59.3	60.1	55.3	7,969
Missing	63.2	58.7	58.9	54.6	2,062
Education					
None	45.0	39.4	40.0	36.0	3,208
Non-formal	40.0	36.1	36.5	32.1	2,560
Primary	69.7	63.6	63.7	57.8	1,716
Secondary	83.8	79.7	81.3	75.4	3,182
Higher	96.4	95.4	96.6	92.9	882
Wealth index quintile					
Poorest	29.8	24.8	25.2	21.6	2,587
Second	49.0	42.7	43.5	38.1	2,548
Middle	66.5	62.2	62.8	56.7	2,270
Fourth	83.1	78.8	80.3	74.8	2,113
Richest	93.3	91.2	92.0	88.0	2,028
Ethnicity of household head					
Hausa	51.6	47.3	47.2	43.2	6,543
Igbo	84.5	82.2	83.5	76.3	923
Yoruba	88.8	82.1	84.3	77.8	1,096
Other ethnic group	68.7	63.7	65.8	60.4	2,985
<i>¹ MICS indicator 5.6 - Content of antenatal care</i>					

Table RH.9: Content of antenatal care (continued)

Percentage of women age 15-49 years with a live birth in the last two years who, at least once, had their blood pressure measured, urine sample taken, and blood sample taken as part of antenatal care, during the pregnancy for the last birth, Nigeria, 2016-17

Percentage of women who, during the pregnancy of their last birth, had:				Number of
Blood pressure taken	Urine blood sample taken ¹	Blood sample taken	Blood pressure measured, urine and live birth in the measured last two years	women with a sample taken

Total	62.2	57.6	58.4	53.6	11,547
State					
Abia	79.8	72.0	80.0	69.0	99
Adamawa 73.8 70.0 71.8 67.3 264 Akwa Ibom 77.8 72.5 76.8 71.4 228 Anambra 86.3 96.5 96.9 84.9 140 Bauchi 58.0 49.6 49.5 46.9 618					
Bayelsa	60.7	55.6	56.8	54.7	73
Benue	66.1	63.7	64.9	60.6	271
Borno 87.7 85.4 83.8 83.1 692 Cross River 79.1 69.1 75.5 67.1 162					
Delta 71.0 66.8 70.5 61.8 173 Ebonyi 59.6 55.0 55.0 46.7 111 Edo 91.9 89.0 89.5 86.2 101 Ekiti 88.2 77.0 81.4 72.2 54					
Enugu	89.2	88.6	85.7	82.7	105
Gombe 66.9 56.6 63.2 53.7 236 Imo 91.2 87.5 90.7 84.7 164 Jigawa 50.1 47.8 47.0 42.2 595					
Kaduna 73.5 71.1 70.6 67.2 663 Kano 58.7 55.9 56.4 49.3 1,038 Katsina 39.2 33.2 33.1 29.5 916					
Kebbi 40.4 32.3 35.6 28.0 398 Kogi 74.0 71.8 72.0 66.7 133 Kwara 74.0 69.7 71.1 68.1 115					
Lagos 94.9 91.3 90.3 88.8 429 Nasarawa 66.9 62.2 64.7 59.8 244 Niger 47.7 40.2 42.6 38.9 527 Ogun 87.2 69.2 75.4 63.5 132					
Ondo	81.3	72.8	78.2	68.0	163
Osun 92.7 83.1 85.6 75.2 161 Oyo 83.9 78.8 80.3 74.9 322 Plateau 59.4 57.5 52.8 50.3 392 Rivers 77.3 77.5 76.4 70.3 163					
Sokoto	29.4	26.5	27.0	24.2	409
Taraba 48.2 38.3 40.7 36.5 173 Yobe 37.3 34.8 36.5 30.8 410 Zamfara 31.4 27.8 27.1 22.0 583					
FCT Abuja	80.4	77.9	77.3	75.0	89
¹ MICS indicator 5.6 - Content of antenatal care					

Assistance at Delivery

Table RH.10: Assistance during delivery and caesarian section

Percent distribution of women age 15-49 years with a live birth in the last two years by person providing assistance at delivery, and percentage of births delivered by C-section, Nigeria, 2016-17

	Person assisting at delivery									Percent delivered by C-section				Number of women who had a live birth
	Medical Nurse/ Auxiliary birth attendant ^{1,a}		Traditional Community Relative No any skilled labour of labour in the last two doctor		Midwife		Delivery assisted by		Decided before onset of		Decided after onset		Other attendant	
	Total	pains	Total ² years			Midwife	midwife	attendant	health worker	Friend				
Total	12.0	28.3	2.7	15.6	1.4	25.8	2.3	11.8	100.0	43.0	1.2	1.6	2.8	11,547
Geopolitical zone														
North Central	14.9	31.2	4.1	10.4	2.1	28.2	4.6	4.5	100.0	50.3	1.0	1.4	2.3	1,770
North East	6.5	25.3	2.3	15.0	1.6	39.3	2.4	7.6	100.0	34.0	0.7	0.8	1.4	2,394
North West	6.2	14.9	2.5	19.9	1.4	31.0	1.4	22.7	100.0	23.6	0.7	1.3	2.0	4,603
South South	18.0	43.8	2.2	27.7	0.9	4.5	2.1	0.9	100.0	64.0	2.1	2.6	4.7	900
South West	30.8	48.7	3.2	6.0	0.3	4.5	3.1	3.4	100.0	82.7	3.2	3.8	6.9	1,261
Residence														
Urban	23.5	41.3	2.3	9.4	0.8	14.9	2.1	5.7	100.0	67.1	2.7	3.0	5.7	3,426
Rural	7.2	22.9	2.9	18.2	1.6	30.5	2.4	14.4	100.0	32.9	0.6	1.0	1.6	8,121
Mother's age at birth (Years)														
Less than 20	8.2	19.7	3.5	20.2	1.7	34.7	2.5	9.5	100.0	31.4	0.7	1.4	2.1	1,516
20-34	12.4	30.0	2.8	15.1	1.4	24.7	2.3	11.4	100.0	45.1	1.0	1.8	2.7	7,969
35-49	13.4	28.3	1.8	14.1	1.2	24.0	2.1	15.1	100.0	43.5	2.4	1.3	3.7	2,062
Place of delivery														
Home	1.9	7.2	1.6	23.7	1.5	41.9	2.9	19.3	100.0	10.7	0.0	0.0	0.0	6,952
Health facility	28.6	62.8	4.3	2.4	1.3	0.2	0.2	0.3	100.0	95.6	3.2	4.3	7.5	4,333
Public	26.1	66.5	5.0	0.4	1.5	0.1	0.2	0.3	100.0	97.6	3.2	3.9	7.1	2,823
Private	33.2	55.9	2.9	6.2	0.9	0.4	0.2	0.3	100.0	92.0	3.1	5.0	8.1	1,511
	19.4	6.8	18.2	1.1	23.7	21.2	3.0	100.0	32.8	0.0	0.0	0.0	262	6.6

Table RH.10: Assistance during delivery and caesarian section (continued)

Percent distribution of women age 15-49 years with a live birth in the last two years by person providing assistance at delivery, and percentage of births delivered by C-section, Nigeria, 2016-17

	Person assisting at delivery								Percent delivered by C-section					Number of women Total ^{1,a}	
	Medical Nurse/ Total attendant ^{1,a}	Auxiliary labour pains	Traditional birth pains	Community health Relative	Community health Relative No any skilled Total ² in the last two years	Delivery assisted by doctor	Decided before onset of labour who had a live birth	Decided after onset of labour who had a live birth	Midwife	Midwife attendant worker	Friend Other attendant				
Education															
None	4.6	15.8	2.0	16.0	1.4	38.8	3.0	18.5	100.0	22.4	0.3	0.5	0.9	3,208	
Non-formal	3.7	10.0	2.8	25.6	1.8	34.9	1.6	19.6	100.0	16.5	0.5	0.6	1.1	2,560	
Primary	9.5	30.3	4.3	17.4	1.3	25.5	2.0	9.7	100.0	44.1	0.6	1.1	1.6	1,716	
Secondary	19.3	49.1	2.4	10.0	1.4	11.8	2.9	3.1	100.0	70.9	1.1	2.8	3.9	3,182	
Higher	41.4	48.4	2.9	2.1	0.3	3.9	0.4	0.6	100.0	92.7	7.7	5.4	13.1	882	
Wealth index quintile															
Poorest	2.9	7.8	2.1	23.2	1.8	40.2	2.4	19.6	100.0	12.8	0.3	0.6	0.9	2,587	
Second	5.5	15.8	3.0	18.3	1.5	34.3	3.1	18.4	100.0	24.3	0.4	0.5	0.9	2,548	
Middle	9.4	30.1	2.5	15.5	1.7	28.0	2.4	10.3	100.0	42.1	0.5	1.1	1.6	2,270	
Fourth	14.3	46.1	3.1	14.0	1.3	14.2	1.8	5.3	100.0	63.5	0.9	2.3	3.3	2,113	
Richest	32.3	49.8	2.8	4.3	0.4	6.7	1.6	2.2	100.0	84.9	4.3	4.2	8.4	2,028	
Ethnicity of household head															
Hausa	6.6	16.5	2.5	18.3	1.4	34.3	1.8	18.6	100.0	25.6	0.6	1.0	1.7	6,543	
Igbo	25.1	62.0	1.6	3.6	1.2	3.8	1.2	1.4	100.0	88.8	2.5	2.8	5.3	923	
Yoruba	29.7	48.6	4.0	7.8	0.4	3.2	3.2	3.0	100.0	82.4	3.1	3.7	6.8	1,096	
Other ethnic group	13.2	36.4	3.0	16.4	1.7	22.5	3.3	3.5	100.0	52.6	1.3	1.7	3.0	2,985	
						¹ MICS indicator 5.7; MDG indicator 5.2 - Skilled attendant at delivery									
						² MICS indicator 5.9 - Caesarean section									
^a Skilled attendants include Medical doctor and Nurse/Midwife.															

Table RH.10: Assistance during delivery and caesarian section (continued)

Percent distribution of women age 15-49 years with a live birth in the last two years by person providing assistance at delivery, and percentage of births delivered by C-section, Nigeria, 2016-17

Person assisting at delivery		Percent delivered by C-section			
		Delivery	Decided before	Decided after	
		assisted by	onset of	onset of	Number of women
Traditional Community	Relative No any skilled labour labour who had a live birth	doctor	Midwife	midwife attendant worker /Friend Other attendant	attendant
Medical Nurse/ Auxiliary birth health	Total attendant ^{1,a} pains pains Total ² in the last two years				

Total	12.0	28.3	2.7	15.6	1.4	25.8	2.3	11.8	100.0	43.0	1.2	1.6	2.8	11,547
State														
Abia	16.5	72.5	2.4	5.6	0.3	0.4	1.1	1.0	100.0	91.4	0.4	3.4	3.8	99
Adamawa	10.2	41.1	1.6	4.4	0.9	33.7	0.6	7.5	100.0	53.0	4.2	0.7	4.9	264
Akwa Ibom	15.1	23.8	1.1	52.2	1.0	1.8	4.1	0.9	100.0	40.0	2.9	1.8	4.7	228
Anambra	28.4	66.8	2.0	1.6	0.4	0.9	0.0	0.0	100.0	97.2	1.3	2.1	3.4	140
Bauchi	1.4	18.8	2.0	4.1	0.6	56.0	0.5	16.8	100.0	22.1	0.1	0.0	0.1	618
Bayelsa	7.3	28.2	2.1	51.2	0.6	8.6	1.0	1.0	100.0	37.6	0.6	2.2	2.8	73
Benue	14.7	45.7	2.3	18.2	2.9	14.8	0.3	0.9	100.0	62.8	0.9	2.4	3.3	271
Borno	10.7	35.7	2.4	18.5	0.0	26.2	6.6	0.0	100.0	48.8	0.0	1.4	1.4	692
Cross River	16.2	44.2	4.2	21.8	1.9	9.5	2.2	0.0	100.0	64.6	3.3	2.2	5.5	162
Delta	16.6	53.2	1.1	22.6	0.7	2.4	0.4	3.0	100.0	70.9	1.0	2.7	3.7	173
Ebonyi	12.0	57.1	3.5	7.8	0.9	11.6	1.4	5.6	100.0	72.6	0.4	1.3	1.7	111
Edo	34.2	56.0	2.6	2.4	0.0	3.6	1.2	0.0	100.0	92.8	2.3	3.5	5.9	101
Ekiti	24.2	47.1	7.0	7.4	0.6	5.2	5.8	2.7	100.0	78.2	2.4	2.7	5.1	54
Enugu	25.0	66.1	1.1	2.2	3.1	1.9	0.4	0.0	100.0	92.2	5.1	0.9	6.0	105
Gombe	6.9	26.2	6.1	14.2	5.5	30.5	2.4	8.2	100.0	39.1	0.6	0.5	1.1	236
Imo	20.3	74.9	0.8	1.0	1.5	1.5	0.0	0.0	100.0	96.0	3.8	3.1	6.9	164
Jigawa	5.5	11.5	4.3	13.5	3.9	33.4	0.5	27.5	100.0	21.2	0.2	0.3	0.5	595
Kaduna	7.6	37.0	2.5	2.0	0.5	44.4	0.6	5.4	100.0	47.1	1.6	2.7	4.3	663
Kano	6.2	12.4	1.2	23.5	2.1	30.4	1.4	22.9	100.0	19.8	0.5	0.5	1.0	1,038
Katsina	6.9	12.4	1.5	27.6	0.4	25.6	3.7	21.9	100.0	20.8	0.9	2.3	3.3	916
Kebbi	2.6	9.3	6.0	21.2	1.3	20.2	0.6	38.8	100.0	17.9	0.5	2.2	2.7	398
Kogi	28.6	44.7	5.1	2.4	1.5	12.5	5.2	0.0	100.0	78.4	1.6	1.8	3.4	133
Kwara	24.6	31.3	7.4	20.2	0.6	6.8	0.4	8.9	100.0	63.2	0.0	1.2	1.2	115
Lagos	42.6	42.4	1.9	6.9	0.4	1.9	2.3	1.6	100.0	86.9	4.6	5.2	9.9	429

Table RH.10: Assistance during delivery and caesarian section (continued)

Percent distribution of women age 15-49 years with a live birth in the last two years by person providing assistance at delivery, and percentage of births delivered by C-section, Nigeria, 2016-17

State	Person assisting at delivery						Percent delivered by C-section							Number of women /Friend Other attendant
	Medical Nurse/ Total attendant ^{1,a}	Auxiliary birth pains	Relative health pains	No any skilled labour in the last two years	Traditional Community Total ²	Delivery assisted by doctor	100.0	Midwife	Decided before onset of	Decided after onset of	2.3	244		
													1.0	
Nasarawa	15.3	23.6	9.5	5.3	0.7	41.2	1.0	3.3	100.0	48.4	1.5	0.8	2.3	244
Niger	7.4	22.0	4.1	14.5	4.2	31.7	6.6	9.6	100.0	33.5	0.1	0.2	0.3	527
Ogun	23.8	55.2	4.1	8.7	0.0	1.6	3.2	3.5	100.0	83.0	1.5	3.2	4.7	132
Ondo	26.9	48.6	0.9	13.9	0.0	6.8	1.0	2.0	100.0	76.4	0.5	4.3	4.7	163
Osun	36.8	43.1	4.7	2.1	0.0	6.8	2.9	3.5	100.0	84.7	1.2	2.9	4.1	161
Oyo	18.1	57.5	4.2	1.4	0.6	6.7	4.9	6.5	100.0	79.8	4.5	2.4	6.8	322
Plateau	17.4	29.0	0.9	3.9	0.4	38.0	8.6	1.8	100.0	47.3	1.5	2.3	3.9	392
Rivers	20.3	60.8	2.7	10.0	0.5	4.1	1.8	0.0	100.0	83.7	1.4	3.5	4.9	163
Sokoto	7.7	11.5	1.4	31.1	0.6	24.4	1.2	22.2	100.0	20.6	0.4	0.3	0.7	409
Taraba	8.5	18.7	2.4	3.2	7.6	50.8	0.7	8.1	100.0	29.6	0.4	1.9	2.3	173
Yobe	3.7	9.5	0.7	37.8	1.7	40.4	0.0	6.3	100.0	13.9	0.3	0.7	1.1	410
Zamfara	6.0	7.8	2.7	19.3	0.6	35.2	0.7	27.8	100.0	16.4	0.4	0.4	0.8	583
FCT Abuja	15.0	52.4	3.2	4.4	1.3	20.3	2.3	1.1	100.0	70.6	2.2	1.9	4.1	89

¹ MICS indicator 5.7; MDG indicator 5.2 - Skilled attendant at delivery ² MICS indicator 5.9 - Caesarean section

^a Skilled attendants include Medical doctor and Nurse/Midwife.

Place of Delivery

Table RH.11: Place of delivery

Percent distribution of women age 15-49 years with a live birth in the last two years by place of delivery of their last birth, Nigeria, 2016-17

	Place of delivery					Total	Delivered in health facility ¹	Number of women with a live birth in the last two years
	Health facility		Home	Other	Missing/Don't know			
	Public sector	Private sector						
Total	24.4	13.1	60.2	2.2	0.1	100.0	37.5	11,547
Geopolitical zone								
North Central	30.3	14.1	51.1	4.5	0.0	100.0	44.4	1,770
North East	24.3	1.5	73.7	0.3	0.2	100.0	25.8	2,394
North West	15.4	2.4	82.0	0.1	0.1	100.0	17.8	4,603
South East	34.1	53.5	11.6	0.5	0.3	100.0	87.5	620
South South	38.1	28.7	29.4	3.9	0.0	100.0	66.8	900
South West	34.9	41.8	13.8	9.6	0.0	100.0	76.6	1,261
Residence								
Urban	37.3	23.7	35.3	3.7	0.1	100.0	61.0	3,426
Rural	19.0	8.6	70.7	1.5	0.1	100.0	27.6	8,121
Mother's age at birth (years)								
Less than 20	19.1	6.1	73.0	1.8	0.0	100.0	25.2	1,516
20-34	25.4	14.2	58.2	2.1	0.1	100.0	39.6	7,969
Missing	24.6	14.0	58.7	2.6	0.2	100.0	38.6	2,062
Number of antenatal care visits								
None	4.7	1.7	91.3	1.9	0.4	100.0	6.4	3,653
1-3 visits	24.7	9.5	64.5	1.2	0.0	100.0	34.3	2,094
4+ visits	37.0	21.7	38.8	2.6	0.0	100.0	58.7	5,670
Missing/Don't know	28.9	14.6	51.8	4.7	0.0	100.0	43.5	130
Education								
None	13.9	3.2	81.4	1.4	0.2	100.0	17.1	3,208
Non-formal	8.8	0.6	90.1	0.4	0.1	100.0	9.4	2,560
Primary	27.9	11.2	58.0	2.9	0.0	100.0	39.1	1,716
Secondary	38.0	27.4	30.5	4.0	0.1	100.0	65.3	3,182
Higher	52.7	37.4	8.0	1.8	0.1	100.0	90.1	882
Wealth index quintile								
Poorest	8.3	1.4	89.3	0.8	0.2	100.0	9.7	2,587
Second	15.4	4.4	78.6	1.4	0.1	100.0	19.8	2,548
Middle	25.7	9.1	63.4	1.7	0.1	100.0	34.9	2,270
Fourth	36.6	20.0	40.7	2.7	0.0	100.0	56.6	2,113
Richest	42.4	36.1	16.7	4.8	0.1	100.0	78.4	2,028
Ethnicity of household head								
Hausa	16.7	2.1	80.6	0.5	0.1	100.0	18.8	6,543
Igbo	36.0	49.6	12.8	1.4	0.2	100.0	85.6	923
Yoruba	38.0	38.4	13.9	9.6	0.0	100.0	76.5	1,096
Other ethnic group	32.9	16.5	47.2	3.3	0.2	100.0	49.3	2,985
¹ MICS indicator 5.8 - Institutional deliveries								

Table RH.11: Place of delivery (continued)

Percent distribution of women age 15-49 years with a live birth in the last two years by place of delivery of their last birth, Nigeria, 2016-17

	Place of delivery						Delivered in health facility ¹	Number of women with a live birth in the last two years
	Health facility		Home	Other	Missing/ Don't know	Total		
	Public sector	Private sector						
Total	24.4	13.1	60.2	2.2	0.1	100.0	37.5	11,547
State								
Abia	38.1	51.1	7.6	2.2	1.0	100.0	89.2	99
Adamawa	37.9	3.6	57.9	0.6	0.0	100.0	41.5	264
Akwa Ibom	26.6	35.6	31.9	5.9	0.0	100.0	62.2	228
Anambra	28.6	67.9	3.2	0.4	0.0	100.0	96.5	140
Bauchi	16.7	0.5	82.5	0.4	0.0	100.0	17.1	618
Bayelsa	20.0	12.5	57.7	9.8	0.0	100.0	32.4	73
Benue	29.5	32.1	35.0	3.4	0.0	100.0	61.6	271
Borno	35.6	1.6	62.5	0.4	0.0	100.0	37.1	692
Cross River	50.0	6.6	41.7	1.7	0.0	100.0	56.6	162
Delta	39.5	29.8	27.9	2.8	0.0	100.0	69.3	173
Ebonyi	56.4	12.2	31.1	0.0	0.3	100.0	68.6	111
Edo	56.7	35.8	6.9	0.6	0.0	100.0	92.5	101
Ekiti	57.2	23.1	12.1	6.7	1.0	100.0	80.3	54
Enugu	41.5	44.7	12.6	0.7	0.4	100.0	86.2	105
Gombe	27.3	2.0	68.4	0.0	2.3	100.0	29.3	236
Imo	16.4	76.0	7.6	0.0	0.0	100.0	92.4	164
Jigawa	16.1	0.9	82.9	0.0	0.1	100.0	16.9	595
Kaduna	28.0	7.4	64.6	0.0	0.0	100.0	35.4	663
Kano	12.5	3.2	84.0	0.2	0.1	100.0	15.7	1,038
Katsina	16.4	1.1	82.2	0.0	0.3	100.0	17.5	916
Kebbi	11.3	0.8	87.6	0.2	0.0	100.0	12.2	398
Kogi	51.2	25.0	20.2	3.6	0.0	100.0	76.3	133
Kwara	42.0	19.6	38.0	0.5	0.0	100.0	61.6	115
Lagos	25.4	54.1	7.2	13.3	0.0	100.0	79.5	429
Nasarawa	32.8	11.9	55.1	0.2	0.0	100.0	44.7	244
Niger	19.7	1.9	77.5	0.8	0.0	100.0	21.7	527
Ogun	23.3	54.5	11.8	10.4	0.0	100.0	77.8	132
Ondo	62.3	11.2	22.3	4.1	0.0	100.0	73.5	163
Osun	24.8	48.6	14.5	12.1	0.0	100.0	73.4	161
Oyo	39.6	35.3	18.9	6.2	0.0	100.0	74.9	322
Plateau	30.1	13.2	43.5	13.3	0.0	100.0	43.3	392
Rivers	37.4	42.6	16.4	3.6	0.0	100.0	80.0	163
Sokoto	11.7	0.6	87.7	0.0	0.0	100.0	12.3	409
Taraba	18.0	4.3	77.5	0.3	0.0	100.0	22.3	173
Yobe	9.0	0.2	90.8	0.0	0.0	100.0	9.2	410
Zamfara	9.7	1.0	89.2	0.2	0.0	100.0	10.7	583
FCT Abuja	44.1	16.9	29.3	9.6	0.0	100.0	61.0	89

¹ MICS indicator 5.8 - Institutional deliveries

Post-natal Health Checks

Table RH.12: Post-partum stay in health facility

Percent distribution of women age 15-49 years with a live birth in the last two years who had their last birth delivered in a health facility by duration of stay in health facility, Nigeria, 2016-17

Duration of stay in health facility								Number of women who had their last birth delivered in a health facility in the last 2 years
Less than 6 hours	6-11 hours	12-23 hours	1-2 days	3 days or more	Missing/Don't know	Total	12 hours or more ¹	

Total	35.2	14.2	4.4	30.2	16.0	0.1	100.0	50.5	4,333
Geopolitical zone									
North Central	46.9	17.1	3.5	23.8	8.5	0.1	100.0	35.9	786
North East	56.2	14.2	5.1	17.0	7.4	0.1	100.0	29.5	618
North West	51.3	17.1	1.1	18.7	11.8	0.0	100.0	31.7	820
South East	14.4	8.5	4.1	50.2	22.6	0.2	100.0	76.9	542
South South	18.2	13.8	4.3	38.2	25.5	0.0	100.0	68.0	601
South West	21.0	12.9	7.5	37.2	21.4	0.0	100.0	66.1	966
Residence									
Urban	31.0	15.2	5.0	30.5	18.3	0.1	100.0	53.8	2,090
Rural	39.2	13.3	3.8	29.9	13.8	0.0	100.0	47.5	2,244
Mother's age at birth (years)									
Less than 20	44.7	13.7	3.1	24.1	14.4	0.0	100.0	41.6	382
20-34	34.2	14.4	4.4	30.9	15.9	0.1	100.0	51.3	3,156
Missing	34.6	13.6	4.6	30.2	16.9	0.1	100.0	51.7	795
Type of health facility									
Public	41.8	14.9	3.9	27.6	11.7	0.1	100.0	43.2	2,823
Private	23.0	12.8	5.3	35.0	23.9	0.0	100.0	64.2	1,511
Type of delivery									
Vaginal birth	37.1	15.2	4.7	32.4	10.6	0.1	100.0	47.7	4,009
C-section	12.4	1.9	0.4	2.2	83.2	0.0	100.0	85.7	324
Education									
None	50.9	16.5	2.3	21.9	8.3	0.2	100.0	32.4	548
Non-formal	61.6	12.8	0.6	15.8	9.1	0.0	100.0	25.6	240
Primary	38.7	13.9	4.7	30.6	11.9	0.2	100.0	47.2	671
Secondary	31.1	15.0	5.0	32.3	16.6	0.0	100.0	53.9	2,079
Higher	24.3	11.3	5.0	34.3	25.2	0.0	100.0	64.5	794
Wealth index quintile									
Poorest	55.4	10.6	1.3	21.1	11.6	0.0	100.0	34.0	250
Second	46.0	17.7	3.8	22.5	10.0	0.0	100.0	36.3	506
Middle	41.8	14.5	3.6	28.0	12.2	0.0	100.0	43.7	792
Fourth	35.0	14.6	4.4	30.6	15.4	0.1	100.0	50.3	1,195
Richest	25.5	13.2	5.4	34.8	20.9	0.1	100.0	61.2	1,591
Ethnicity of household head									
Hausa	51.3	16.8	2.8	18.7	10.3	0.2	100.0	31.8	1,233
Igbo	16.0	9.7	3.8	47.8	22.5	0.1	100.0	74.1	790
Yoruba	25.9	13.5	7.8	33.8	19.0	0.0	100.0	60.6	838
Other ethnic group	37.4	14.8	4.0	28.3	15.5	0.0	100.0	47.8	1,472

¹ MICS indicator 5.10 - Post-partum stay in health facility

Table RH.12: Post-partum stay in health facility (continued)

Percent distribution of women age 15-49 years with a live birth in the last two years who had their last birth delivered in a health facility by duration of stay in health facility, Nigeria, 2016-17

	Duration of stay in health facility							Number of women who had their last birth		
	12-23 or more	1-2 know	3 days Total	Don't or more ¹	12 hours years	Missing/ delivered in a health facility in the last 2 hours	100.0	Less than 6 hours	6-11 days	
Total	35.2		14.2	4.4	30.2	16.0	0.1	100.0	50.5	4,333
State										
Abia	11.6		13.0	6.8	54.2	14.3	0.0	100.0	75.4	88
Adamawa	58.9	11.1	2.4	24.2	3.4	0.0	100.0	30.0	109	109
Akwa Ibom	13.8	7.4	2.2	30.4	46.2	0.0	100.0	78.9	142	142
Anambra	17.8	8.8	7.7	48.8	16.3					
Bauchi	68.1	18.1	1.8	8.4	3.6	0.0	100.0	13.8	106	106
Bayelsa	24.6	21.2	16.7	19.8	17.7	0.0	100.0	54.2	24	24
Benue	39.0		25.9	5.2	22.3	7.6	0.0	100.0	35.1	167
Borno	49.1	16.7	9.4	15.8	9.0	0.0	100.0	34.2	257	257
Cross River	10.3	11.5	5.4	52.2	20.6	0.0	100.0	78.2	92	92
Delta	19.7		17.4	4.8	39.1	19.0	0.0	100.0	62.9	120
Ebonyi	26.8	6.2	3.6	41.7	21.7	0.0	100.0	67.0	76	76
Edo	31.9	14.1	0.7	34.2	19.1	0.0	100.0	54.0	93	93
Ekiti	17.1	12.4	8.5	43.1	19.0	0.0	100.0	70.5	43	43
Enugu	11.5	13.4	0.8	55.5	18.7	0.0	100.0	75.1	91	91
Gombe	60.2	11.4	3.7	16.8	6.6	1.3	100.0	27.1	69	69
Imo	8.5	4.0	1.6	50.1	35.8	0.0	100.0	87.5	152	152
Jigawa	53.7	20.5	0.0	20.5	5.3	0.0	100.0	25.8	101	101
Kaduna	46.7	12.9	0.9	26.5	12.9	0.0	100.0	40.3	235	235
Kano	54.8	18.4	1.4	15.0	10.4	0.0	100.0	26.7	163	163
Katsina	54.5	17.5	0.0	13.0	15.0	0.0	100.0	28.0	160	160
Kebbi	57.0	9.3	1.3	16.7	15.7					
Kogi	45.2		15.6	1.2	27.0	10.1	1.0	100.0	38.3	102
Kwara	32.5		19.8	3.8	36.3	7.6	0.0	100.0	47.7	71
Lagos	13.3	10.4	3.0	44.1	29.2	0.0	100.0	76.3	341	341
Nasarawa	51.3	19.9	1.8	17.3	9.6	0.0	100.0	28.8	109	109
Niger	70.5	12.9	1.4	13.0	2.2	0.0				
Ogun	6.3	8.8	10.2	43.2	31.6	0.0	100.0	85.0	103	103
Ondo	43.2	12.3	8.6	28.0	7.9	0.0	100.0	44.5	120	120
Osun	24.1	14.6	9.5	39.7	12.1	0.0	100.0	61.4	118	118
Oyo	26.3	17.6	10.9	27.4	17.8	0.0	100.0	56.1	241	241
Plateau	47.9	7.9	5.4	27.6	11.2	0.0	100.0	44.2	170	170
Rivers	16.3	17.6	5.7	42.3	18.2	0.0	100.0	66.1	131	131
Sokoto	51.0	10.6	4.0	21.5	12.9	0.0	100.0	38.3	50	50
Taraba	51.9		14.2	0.8	21.3	11.8	0.0	100.0	33.9	38
Yobe	(60.7)	(0.0)	(0.0)	(24.5)	(14.8)	(0.0)	100.0	(39.3)	38	38
Zamfara	42.5	33.6	3.4	10.1	10.4	0.0	100.0	23.9	62	62
FCT Abuja	31.4		21.5	4.3	30.5	12.3	0.0	100.0	47.1	54

1 MICS indicator 5.10 - Post-partum stay in health facility

() Sample data are based on 25-49 unweighted cases

Post-natal Health Checks

Table RH.13: Post-natal health checks for newborns

Percentage of women age 15-49 years with a live birth in the last two years whose last live birth received health checks while in facility or at home following birth, percent distribution whose last live birth received post-natal care (PNC) visits from any health provider after birth, by timing of visit, and percentage who received post natal health checks, Nigeria, 2016 -17

Health check		PNC visit for newborns ^b											
while in facility	at home	1 day following birth	2 days following birth	3-6 days following birth	first week following birth	No post-natal care /Don't know	Missing health check for live births in the	Number of last facility visit	After the birth	Post-natal following birth	Post-natal following birth	Post-natal following birth	Total newborn ^{1, c} last two years

Total	32.8	8.0	1.5	2.0	2.4	3.1	82.9	0.1	100.0	37.1	11,547
Geopolitical zone											
North Central	41.7	9.6	2.5	3.1	1.8	1.6	81.3	0.2	100.0	46.6	1,770
North East	21.9	6.7	0.7	0.8	0.7	3.2	87.8	0.1	100.0	24.5	2,394
North West	14.6	6.5	0.9	1.0	1.4	1.7	88.4	0.1	100.0	19.0	4,603
South East	64.5	6.8	2.8	3.2	3.5	4.2	79.6	0.0	100.0	66.1	620
South South	61.4	12.9	3.0	4.3	7.4	11.6	60.7	0.2	100.0	69.1	900
South West	71.3	10.5	2.7	4.0	6.1	3.3	73.4	0.0	100.0	76.1	1,261
Residence											
Urban	54.0	11.2	1.6	3.1	3.7	4.3	76.0	0.1	100.0	58.9	3,426
Rural	23.8	6.6	1.5	1.5	1.9	2.6	85.8	0.1	100.0	27.8	8,121
Mother's age at birth (years)											
Less than 20	21.7	6.6	1.4	1.4	2.0	3.1	85.6	0.0	100.0	25.9	1,516
20-34	34.9	8.0	1.6	2.1	2.4	3.4	82.3	0.1	100.0	39.3	7,969
Missing	32.8	8.7	1.2	1.9	2.8	1.9	83.3	0.2	100.0	36.6	2,062
Place of delivery											
Home	4.5	5.0	0.9	1.2	1.4	2.0	89.4	0.0	100.0	10.5	6,952
Health facility	78.9	12.4	2.5	3.1	3.8	4.8	73.1	0.3	100.0	79.8	4,333
Public	78.2	14.1	2.4	2.6	2.9	4.3	73.5	0.2	100.0	79.2	2,823
Private	80.1	9.4	2.6	3.8	5.6	5.8	72.5	0.4	100.0	81.0	1,511
Other/Missing/Don't	20.2	11.9	2.9	3.3	6.3	3.0	72.6	0.0	100.0	35.5	262 know
Education											
None	15.0	4.4	0.9	0.8	1.1	1.8	90.8	0.2	100.0	17.6	3,208
Non-formal	9.1	7.9	0.5	0.7	1.1	1.6	88.1	0.0	100.0	15.2	2,560
Primary	34.5	7.6	1.6	2.2	2.8	3.2	82.6	0.0	100.0	39.3	1,716
Secondary	55.2	10.3	2.9	3.4	4.0	4.8	74.4	0.2	100.0	60.0	3,182
Higher	81.9	13.2	1.9	4.0	4.8	5.4	70.5	0.2	100.0	84.1	882
Wealth index quintile											
Poorest	7.4	3.8	0.6	0.5	0.9	1.6	92.5	0.0	100.0	10.6	2,587
Second	17.0	6.3	1.4	1.0	1.4	1.6	88.2	0.1	100.0	21.4	2,548
Middle	30.5	8.2	1.8	2.4	2.4	3.0	82.1	0.2	100.0	35.8	2,270
Fourth	48.4	11.5	1.9	2.4	3.5	4.5	75.9	0.2	100.0	53.6	2,113
Richest	71.3	11.4	2.3	4.0	4.5	5.4	72.3	0.1	100.0	74.7	2,028
Ethnicity of household head											
Hausa	16.1	6.4	0.9	1.1	1.4	2.0	88.1	0.1	100.0	20.2	6,543
Igbo	67.5	8.0	2.5	2.8	3.3	4.5	78.9	0.1	100.0	69.5	923
Yoruba	70.1	11.4	2.8	3.6	6.7	3.1	72.4	0.0	100.0	75.8	1,096
Other ethnic group	44.9	10.2	2.2	2.9	2.9	5	76.6	0.2	100	49.7	2,985

^a Health checks by any health provider following facility births (before discharge from facility) or following home births (before departure of provider from home).

^b Post-natal care visits (PNC) refer to a separate visit by any health provider to check on the health of the newborn and provide preventive care services. PNC visits do not include health checks following birth while in facility or at home (see note ^a above).

^c Post-natal health checks include any health check performed while in the health facility or at home following birth (see note ^a above), as well as PNC visits (see note ^b above) within two days of delivery.

Table RH.13: Post-natal health checks for newborns (continued)

Percent distribution of women age 15-49 years with a live birth in the last two years whose last live birth received a post-natal care (PNC) visit within one week of birth, by location and provider of the first PNC visit, Nigeria, 2016 -17

	Location of first PNC visit for newborns				Provider of first PNC visit for newborns				Number of last live newborns				years location											
	Public		Private		Doctor/ Auxiliary health worker attendant		Community health birth with a PNC visit within the first week of life		Traditional Home Sector		years location													
	Total	midwife	midwife	worker	Total	nurse/ attendant	birth with a PNC visit within the first week of life	Community health birth with a PNC visit within the first week of life	Traditional Home Sector	years location	years location	years location												
Total	41.7	41.8	15.3	1.2	100.0	69.5	6.2	3.9	20.5	100.0		1,603												
Geopolitical zone																								
North Central	41.7	40.7	17.4	0.1	100.0	69.1	8.0	3.4	19.5	100.0	299	North East	34.8	61.3	3.6	0.3	100.0	72.2	8.2	4.0	15.7	100.0	212	
North West		47.9	46.1	5.8	0.1	100.0	56.8	7.6	6.5	29.2	100.0												450	
South East	28.8	30.8	40.4	0.0	100.0	88.9	3.6	2.5	5.1	100.0	101	South South	43.9	41.6	13.8	0.7	100.0	64.9	2.4	3.7	28.9	100.0	248	
South West		39.8	25.9	28.7	5.6	100.0	84.5	4.9	0.8	9.8	100.0												293	
Residence																								
Urban		33.2	43.9	21.0	1.9	100.0	81.0	4.3	2.1	12.6	100.0												670	
Rural		47.9	40.2	11.2	0.7	100.0	61.1	7.5	5.1	26.2	100.0												933	
Mother's age at birth (years)																								
Less than 20	53.8	39.9	5.6	0.7	100.0	60.6	5.9	2.7	30.8	100.0	173	20-34	40.4	42.4	16.2	1.0	100.0	68.7	7.1	4.0	20.1	100.0	1,129	
35-49		39.6	40.4	17.6	2.5	100.0	77.4	3.0	3.8	15.8	100.0												302	
Place of delivery																								
Home	77.1	20.6	2.1	0.1	100.0	37.0	8.6	7.1	47.3	100.0	595	Health facility	19.2	56.6										
	24.0	0.3	100.0	90.6	4.6	2.0	2.7	100.0	944	Public	16.4	82.9	0.6	0.1	100.0	90.7								
	5.4	2.5	1.4	100.0	621	Private	24.4	5.9	69.1	0.6	100.0	90.6	3.1	1.2	5.1									
100.0	322																							
Other/Missing/Don't know	45.1	19.6	9.3	26.1	100.0	59.0	6.7	0.5	33.7	100.0													64	
Education																								
None	41.9	48.3	9.0	0.7	100.0	64.3	8.1	6.9	20.7	100.0													232	
Non-formal	72.0	27.5	0.6	0.0	100.0	38.6	7.7	5.8	47.9	100.0	263	Primary	43.6	41.4	13.9	1.1	100.0	59.7	7.8	3.6	28.9	100.0	243	Secondary
	35.8	42.0	20.2	2.1	100.0	80.1	5.4	2.8	11.7	100.0	655													
Higher	19.9	52.3	27.0	0.8	100.0	91.8	2.8	1.7	3.6	100.0														210
Wealth Index quintile																								
Poorest	60.7	35.6	3.7	0.0	100.0	37.9	9.8	8.5	43.8	100.0													150	
Second	50.1	38.7	10.7	0.4	100.0	52.2	8.7	6.9	32.3	100.0	258	Middle	50.7	41.2	7.1	1.0	100.0	63.5	7.3	4.0	25.2	100.0	335	Fourth
	14.7	0.7	100.0	75.9	5.2	2.7	16.1	100.0	409															
Richest	26.1	42.7	28.4	2.8	100.0	88.5	3.6	1.5	6.5	100.0														451
Ethnicity of household head																								
Hausa	48.0	47.1	4.8	0.1	100.0	58.6	8.6	5.4	27.5	100.0	641	Igbo	27.7	32.1	39.9	0.2	100.0	88.9	3.2	1.6	6.3	100.0	153	Yoruba
	5.2	100.0	82.2	4.7	1.2	11.8	100.0	268																
Other ethnic group	39.1	45.1	14.9	0.9	100.0	70.6	5.0	4.0	20.5	100.0														542

*Sample size by State is too small to give meaningful results

Table RH.14A: Thermal care for newborns

Percentage of last-born children in the last 2 years who were dried after birth, percentage who were given skin to skin contact and percent distribution of timing of first bath, Nigeria, 2016 -17

	Percentage of children who were:				Timing of first bath			Total	children in the last two years
	Dried (wiped) after birth ¹	Given skin-to-skin contact with mother ²	Less than 6 hours after birth	More than 6 hours after birth	Number of hours after birth ³	6-23 hours	24 last-born /Don't know /Don't remember		
Total	69.2	18.2	80.1	13.2	3.5	3.2	100.0	11547	
Geopolitical zone									
North Central	78.5	16.8	84.3	9.9	2.1	3.7	100.0	1770	
North East	60.6	20.3	84.0	11.5	1.8	2.7	100.0	2394	
North West	59.8	19.9	90.0	6.3	1.3	2.5	100.0	4603	
South East	91.3	17.3	49.0	38.6	8.8	3.6	100.0	620	
South South	86.1	16.2	50.7	32.2	14.7	2.4	100.0	900	
South West	83.9	12.2	67.3	19.8	6.7	6.2	100.0	1261	
Residence									
Urban	80.4	22.9	70.9	19.9	5.2	4.0	100.0	3426	
Rural	64.5	16.3	84.0	10.3	2.9	2.8	100.0	8121	
Mother's age at birth									
Less than 20	64.5	14.4	85.6	8.4	2.1	3.8	100.0	1516	
20-34	70.1	18.8	79.0	14.1	3.9	3.1	100.0	7969	
35-49	69.2	18.8	80.6	13.0	3.3	3.1	100.0	2062	
Place of delivery									
Public sector health facility	86.4	32.2	64.3	24.8	6.6	4.3	100.0	2823	
Private sector health facility	88.5	14.7	60.2	26.5	7.1	6.2	100.0	1511	
Home	57.7	13.4	91.2	5.4	1.5	1.9	100.0	6952	
Other	80.5	17.6	73.7	17.0	5.8	3.4	100.0	249	
Education									
None	57.1	12.8	89.7	5.8	1.4	3.1	100.0	3208	
Non-formal	59.1	18.9	91.3	5.5	1.0	2.2	100.0	2560	
Primary	70.2	15.4	81.2	12.8	3.4	2.7	100.0	1716	
Secondary	83.9	21.7	67.7	22.9	6.0	3.5	100.0	3182	
Higher	87.9	28.9	55.7	27.5	10.4	6.4	100.0	882	
Wealth index quintile									
Poorest	52.9	12.2	92.2	4.3	1.6	1.8	100.0	2587	
Second	61.5	16.4	87.7	7.5	1.8	3.0	100.0	2548	
Middle	70.9	17.8	81.1	12.3	3.3	3.3	100.0	2270	
Fourth	79.7	22.0	74.1	18.3	4.0	3.6	100.0	2113	
Richest	86.9	24.6	60.3	27.1	8.0	4.5	100.0	2028	
Ethnicity of household head									
Hausa	61.3	19.3	89.5	6.9	1.4	2.2	100.0	6543	
Igbo	89.6	17.9	53.5	34.8	8.7	3.1	100.0	923	
Yoruba	84.4	15.7	68.5	19.0	6.6	6.0	100.0	1096	
Other ethnic group	74.7	16.8	72.0	18.1	5.5	4.3	100.0	2985	

Table RH.14A: Thermal care for newborns (continued)

Percentage of last-born children in the last 2 years who were dried after birth, percentage who were given skin to skin contact and percent distribution of timing of first bath, Nigeria, 2016 -17

	<u>Percentage of children who were:</u>		Timing of first bath				Total	children in the last two years	
	Dried (wiped) after birth ¹	Given skin-to-skin contact with mother ²	Less	More	Number of than 6	6-23 than 24			Don't last-born
			hours after birth	hours after birth	hours after birth ³	know/Don't remember			
Total	69.2	18.2	80.1	13.2	3.5	3.2	100.0	11547	
State									
Abia	93.4	10.3	46.4	38.5	8.6	6.5	100.0	99	
Adamawa	59.0	21.9	87.7	8.0	0.6	3.7	100.0	264	
Akwa Ibom	79.0	12.0	53.7	23.1	22.0	1.2	100.0	228	
Anambra	95.0	20.8	45.5	41.5	9.0	4.0	100.0	140	
Bauchi	55.2	13.9	88.9	9.0	1.9	0.1	100.0	618	
Bayelsa	75.2	9.7	43.9	42.7	11.7	1.7	100.0	73	
Benue	80.1	13.2	74.1	19.4	1.9	4.6	100.0	271	
Borno	68.5	24.4	79.2	17.2	0.0	3.6	100.0	692	
Cross River	93.1	13.1	43.0	35.9	18.7	2.3	100.0	162	
Delta	82.4	13.7	67.5	24.9	4.6	3.0	100.0	173	
Ebonyi	76.9	30.4	70.6	22.6	4.0	2.8	100.0	111	
Edo	96.7	29.6	66.3	22.1	6.9	4.7	100.0	101	
Ekiti	83.9	6.2	56.9	22.3	9.2	11.6	100.0	54	
Enugu	90.3	19.6	59.5	24.0	12.7	3.8	100.0	105	
Gombe	73.0	26.6	70.4	12.7	9.6	7.3	100.0	236	
Imo	97.1	8.3	32.5	56.3	9.4	1.8	100.0	164	
Jigawa	57.9	28.6	88.6	6.6	2.9	1.9	100.0	595	
Kaduna	86.6	18.0	85.1	10.7	0.5	3.6	100.0	663	
Kano	61.6	25.4	89.4	7.2	1.3	2.2	100.0	1,038	
Katsina	45.9	21.3	92.6	5.0	1.2	1.2	100.0	916	
Kebbi	52.0	18.6	92.1	2.6	0.5	4.8	100.0	398	
Kogi	67.2	18.4	80.3	13.8	0.5	5.3	100.0	133	
Kwara	69.7	21.5	76.8	16.0	3.5	3.7	100.0	115	
Lagos	88.6	15.9	57.8	28.5	7.9	5.9	100.0	429	
Nasarawa	82.2	13.9	90.0	5.9	1.8	2.3	100.0	244	
Niger	73.5	20.7	91.3	3.0	0.8	5.0	100.0	527	
Ogun	72.1	6.2	78.9	11.8	3.7	5.5	100.0	132	
Ondo	76.5	13.1	69.9	23.6	3.5	3.0	100.0	163	
Osun	93.2	5.8	80.7	10.8	1.8	6.7	100.0	161	
Oyo	81.7	13.4	68.8	13.8	9.9	7.6	100.0	322	
Plateau	87.5	14.4	83.4	10.7	3.9	2.0	100.0	392	
Rivers	91.2	22.4	29.5	50.7	17.3	2.5	100.0	163	
Sokoto	57.5	14.3	89.4	4.1	2.1	4.4	100.0	409	
Taraba	47.6	9.6	84.5	7.7	2.4	5.4	100.0	173	
Yobe	55.0	22.7	90.2	8.6	0.9	0.4	100.0	410	
Zamfara	56.8	5.7	92.7	5.4	0.5	1.5	100.0	583	
FCT Abuja	83.0	15.3	77.2	16.6	4.1	2.2	100.0	89	

Table RH.14B: Cord cutting and care

Percent distribution of last live births in the last 2 years delivered outside a facility by what instrument was used to cut the umbilical cord and what substance was applied to the cord, Nigeria, 2016 -17

	Instrument used to cut the cord								Substances ^b applied to the cord					Percentage with years delivered outside a the cord ²	
	New facility		Used blade		Don't		Boiled or sterilised		A clean instruments instrument ^{1,a}		non-harmful		Harmful substance		harmful applied to substance
			blade	Scissors	Other	know			Nothing	Chlorhexidine					
Total	88.0	4.7	5.7	0.0	1.7	17.7	90.6	44.7	3.9	14.6	8.3	63.2	7214		
Geopolitical zone															
North Central	86.6	3.4	9.1	0.0	1.1	20.8	90.6	11.3	0.4	21.5	12.4	33.2	984		
North East	96.0	1.0	2.5	0.0	0.8	16.2	96.9	33.9	6.6	10.2	8.0	50.7	1776		
North West	89.2	6.9	2.9	0.0	0.8	17.7	90.9	64.6	3.9	8.0	7.3	76.6	3783		
South East	37.5	5.4	52.9	0.0	9.1	22.9	53.2	20.1	0.6	35.4	23.0	56.0	77		
South South	76.3	5.3	15.7	0.0	3.1	15.8	81.9	11.4	0.3	43.0	7.8	54.7	299		
South West	56.1	2.3	26.4	0.0	16.5	17.9	66.6	5.8	3.2	68.6	5.8	77.6	295		
Residence															
Urban	79.6	6.5	10.2	0.0	4.4	20.6	84.6	31.6	5.7	26.7	5.9	63.9	1336		
Rural	90.0	4.3	4.7	0.0	1.1	17.1	92.0	47.7	3.5	11.9	8.9	63.0	5878		
Mother's age at birth															
Less than 20	89.6	5.0	4.1	0.0	1.4	18.2	90.9	48.6	5.0	8.9	10.0	62.4	1134		
20-34	87.9	4.7	5.9	0.0	1.7	17.7	90.7	44.4	3.9	15.4	7.7	63.7	4813		
35-49	87.3	4.4	6.4	0.0	1.6	17.6	90.0	42.1	2.7	16.9	9.0	61.8	1267		
Place of delivery															
Home	89.0	4.8	5.0	0.0	1.2	17.2	91.3	46.0	3.9	13.2	8.3	63.1	6952		
Other	64.7	2.7	24.2	0.0	10.4	32.9	73.8	5.7	2.1	55.3	10.3	63.1	249		

Table RH.14B: Cord cutting and care (continued)

Percent distribution of last live births in the last 2 years delivered outside a facility by what instrument was used to cut the umbilical cord and what substance was applied to the cord, *Nigeria, 2016-17*

	Instrument used to cut the cord					Percentage of children whose cord was cut with:		Substances ^b applied to the cord				Number of last-born children in the last two years delivered outside a facility	
	New blade	Used blade	Scissors	Other	Don't know	Boiled or sterilised instruments	A clean instrument ^{1,a}	Nothing	Chlorhexidine	Other non-harmful substance	Harmful substance	Percentage with nothing harmful applied to the cord ²	
Total	88.0	4.7	5.7	0.0	1.7	17.7	90.6	44.7	3.9	14.6	8.3	63.2	7214
Mother's Education													
None	92.2	3.5	3.3	0.0	1.1	17.8	93.6	47.1	5.1	8.2	8.9	60.4	2659
Non-formal	89.8	6.1	3.2	0.0	0.7	15.2	91.5	58.7	1.8	8.5	7.1	69.0	2319
Primary	87.6	4.7	6.1	0.0	1.9	17.2	90.2	32.2	4.3	20.6	10.4	57.1	1045
Secondary	75.6	4.9	15.6	0.0	4.7	23.4	82.6	23.0	5.0	35.2	7.6	63.2	1103
Higher	76.6	1.6	16.4	0.0	4.1	17.6	79.4	20.4	2.9	41.7	7.7	65.1	87
Wealth index quintile													
Poorest	91.8	5.3	2.0	0.0	.9	16.5	92.7	57.8	2.3	5.9	9.8	66.1	2337
Second	90.3	5.1	3.4	0.0	1.0	14.9	91.8	49.6	4.1	8.6	7.7	62.4	2043
Middle	87.5	3.8	7.1	0.0	1.5	19.2	90.8	34.9	6.3	16.4	8.3	57.6	1479
Fourth	83.6	4.0	10.7	0.0	2.2	22.4	88.1	26.6	3.0	32.0	7.3	61.6	918
Richest	68.4	4.1	20.2	0.0	8.4	22.8	78.3	22.5	4.5	46.6	5.1	73.6	438
Ethnicity of household head													
Hausa	90.7	5.5	2.9	0.0	0.8	17.6	92.3	52.9	4.3	10.0	8.0	67.2	5310
Igbo	53.1	3.9	38.7	0.0	6.6	26.4	64.7	25.4	6.8	29.5	17.5	61.7	132
Yoruba	53.3	2.4	28.2	0.0	18.0	18.8	64.2	6.0	2.1	75.4	5.1	83.5	258
Other ethnic group	87.5	2.3	8.6	0.0	1.5	17.3	91.2	24.0	2.4	19.3	9.1	45.8	1513

Table RH.14B: Cord cutting and care (continued)

Percent distribution of last live births in the last 2 years delivered outside a facility by what instrument was used to cut the umbilical cord and what substance was applied to the cord, Nigeria, 2016 -17

born	Instrument used to cut the cord					Substances ^b applied to the cord					Percentage	Number of last-born children in the last two years delivered outside a facility	
	New blade	Used blade	Scissors	Other	Don't know	Boiled or sterilised instruments	A clean instrument ^{1,a}	Nothing	Chlorhexidine	Other non-harmful substance			Harmful substance

Total	88.0	4.7	5.7	0.0	1.7	17.7	90.6	44.7	3.9	14.6	8.3	63.2	7214
State													
Abia	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	11
Adamawa	94.4	2.2	3.4	0.0	0.0	19.0	96.4	56.8	4.4	4.8	16.7	66.1	154
Akwa Ibom	90.3	2.0	6.6	0.0	0.0	26.7	96.2	27.8	0.0	28.0	7.6	55.8	86
Anambra	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	5
Bauchi	99.4	0.0	0.6	0.0	0.0	3.1	99.4	27.5	8.9	4.1	12.8	40.4	512
Bayelsa	80.2	3.7	14.2	0.0	2.2	7.3	86.2	2.1	0.0	49.5	1.4	51.6	49
Benue	94.5	3.2	3.3	0.0	0.0	4.1	94.5	11.3	0.0	3.4	12.0	14.6	104
Borno	97.8	0.0	2.2	0.0	0.0	39.1	99.3	11.9	12.4	18.5	0.0	42.8	435
Cross River	93.3	0.0	7.3	0.0	0.0	11.0	96.6	0.0	.5	28.2	12.6	28.7	70
Delta	55.4	14.2	27.6	0.0	2.7	12.2	58.4	7.6	0.0	73.4	6.5	81.0	53
Ebonyi	51.5	4.9	40.9	0.0	6.6	18.8	61.8	17.0	1.3	27.6	22.9	45.8	35
Edo	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	8
Ekiti	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	11
Enugu	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	15
Gombe	86.3	0.0	5.7	0.0	8.0	7.3	88.3	70.2	.9	6.3	8.8	77.5	167
Imo	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	12
Jigawa	94.9	3.0	1.8	0.0	.7	16.7	96.4	59.1	1.4	10.3	11.0	70.7	494
Kaduna	60.3	29.3	9.1	0.0	1.2	29.3	66.2	3.8	19.2	27.8	26.0	50.7	428
Kano	95.7	1.3	1.6	0.0	.8	8.4	96.3	68.5	5.0	8.0	8.8	81.5	876
Katsina	98.3	0.0	.8	0.0	.4	23.5	98.6	82.6	1.0	1.5	.8	85.1	756

() Sample data are based on 25-49 unweighted cases (*) Sample data are fewer than 25 unweighted cases

Table RH.14B: Cord cutting and care (continued)

Percent distribution of last live births in the last 2 years delivered outside a facility by what instrument was used to cut the umbilical cord and what substance was applied to the cord, Nigeria, 2016 -17

	Instrument used to cut the cord					Percentage of children whose cord was cut with:		Substances ^b applied to the cord			Number of last-born children in the last two years delivered outside a facility		
	New blade	Used blade	Scissors	Other	Don't know	Boiled or sterilised instruments	A clean instrument ^{1,a}	Nothing	Chlorhexidine	Other non-harmful substance	Harmful substance	Percentage with nothing harmful applied to the cord ²	
Total	88.0	4.7	5.7	0.0	1.7	17.7	90.6	44.7	3.9	14.6	8.3	63.2	7214
Kebbi	86.5	2.9	9.3	0.0	1.1	11.9	91.9	78.1	.9	3.2	3.8	82.2	350
Kogi	(73.5)	(13.8)	(5.7)	(.0)	(4.7)	(47.5)	(83.6)	(10.8)	(.0)	(65.7)	(2.0)	(76.5)	32
Kwara	67.6	7.5	22.4	0.0	3.9	12.5	78.2	3.8	0.0	78.7	10.6	82.5	44
Lagos	36.1	0.0	42.6	0.0	24.5	36.6	59.3	3.0	9.9	73.3	2.0	86.2	88
Nasarawa	89.7	3.9	4.4	0.0	1.6	15.2	92.5	6.8	0.4	20.0	7.0	27.2	135
Niger	83.5	2.4	12.6	0.0	1.1	17.1	88.5	8.9	0.8	13.4	13.8	23.2	413
Ogun	(47.1)	(6.4)	(38.8)	(0.0)	(7.8)	(40.3)	(72.0)	(6.4)	(3.0)	(71.2)	(8.8)	(80.7)	29
Ondo	73.6	5.0	13.3	0.0	11.4	3.4	73.6	5.0	0.0	56.7	25.0	61.7	43
Osun	(61.0)	(.0)	(24.4)	(0.0)	(11.9)	(9.8)	(63.6)	(2.1)	(0.0)	(84.5)	(0.0)	(86.6)	43
Oyo	(68.8)	(2.3)	(13.6)	(0.0)	(15.3)	(2.7)	(71.5)	(10.0)	(0.0)	(61.9)	(2.3)	(71.9)	81
Plateau	93.4	3.2	4.6	0.0	0.7	38.4	95.5	20.2	0.0	26.1	15.6	46.3	222
Rivers	(36.0)	(10.6)	(41.8)	(0.0)	(17.0)	(18.8)	(50.3)	(9.1)	(0.0)	(55.4)	(11.2)	(64.5)	33
Sokoto	96.2	1.6	0.7	0.0	0.9	33.4	97.0	80.5	0.9	7.4	3.2	88.8	359
Taraba	97.3	0.0	6.4	0.0	0.6	31.2	97.3	24.2	0.0	11.8	7.7	35.9	134
Yobe	93.5	4.0	2.5	0.0	0.0	4.9	94.4	46.2	2.6	12.2	7.1	60.9	372
Zamfara	80.2	17.9	1.2	0.0	0.9	9.2	81.0	67.3	0.2	3.0	0.7	70.4	521
FCT Abuja	79.7	1.3	18.9	0.0	0.0	10.2	87.5	8.8	0.0	36.4	9.6	45.2	35

(*) Sample data are based on 25-49 unweighted cases (*)

Sample data are fewer than 25 unweighted cases

Table RH.14C: Content of postnatal care for newborns

Percent of last live births in the last two years for which within 2 days after birth the umbilical cord was examined, the temperature of the newborn was assessed, breastfeeding counseling was done and breastfeeding observed, counseling on danger signs for newborns was done and the newborn was weighed, Nigeria, 2016 -17

Percentage of newborn receiving postnatal care		signal function of:		Percentage of newborns who
Cord	Temperature examination	Counseling of observation on danger signs for assessment	Number of Weight signs for breastfeeding assessment	received a least functions within 2 in the last newborns days after birth ¹

Total		30.4	28.1	28.3	23.6	26.6	32.1	11547
Geopolitical zone								
North Central	37.9 36.2 34.9 26.6 32.9 40.2 1770							
North East	15.2 14.0 14.1 10.5 14.9 16.8 2394							
North West	15.8 12.8 15.3 11.0 13.4 15.9 4603							
South East	56.4 55.1 49.7 50.5 46.6 61.1 620							
South South	60.5 51.6 52.6 47.1 49.5 60.9 900							
South West		68.0	68.9	65.4	60.5	61.8	74.0	1261
Residence								
Urban		48.4	48.0	47.8	43.6	45.8	53.6	3426
Rural		22.8	19.7	20.0	15.2	18.5	23.0	8121
Mother's age at birth								
Less than 20	22.0 17.8 20.8 11.9 19.0 22.0 1516							
20-34	32.2 30.1 30.2 25.7 28.5 34.2 7969							
35-49		29.9	27.6	26.5	24.5	24.8	31.4	2062
Place of delivery								
Public sector health facility	58.2 57.6 55.7 53.4 54.2 63.6 2823							
Private sector health facility	62.6 61.3 57.0 54.5 53.3 67.3 1511							
Home		11.9	8.7	10.8	4.9	9.4	11.4	6952
Other		41.2	33.8	33.6	24.9	34.3	40.7	249
Education								
None	14.2 12.3 13.9 9.2 12.5 14.6 3208							
Non-formal	11.6 9.7 10.6 5.8 9.9 11.4 2560							
Primary	33.1 29.3 28.0 22.5 27.0 33.5 1716							
Secondary	49.4 47.0 46.2 40.6 43.8 53.5 3182							
Higher		70.4	68.2	67.6	69.6	63.5	75.9	882
Wealth index quintile								
Poorest	9.3 7.3 8.7 5.4 7.3 9.1 2587							
Second	17.3 13.9 15.0 9.7 13.8 16.7 2548							
Middle	28.3 25.0 24.4 18.4 23.1 28.2 2270							
Fourth		42.4	40.6	41.6	34.0	39.2	47.3	2113
Richest		63.8	62.9	60.5	59.7	57.9	69.2	2028
Ethnicity of household head								
Hausa	16.2 14.1 15.6 11.2 14.7 17.0 6543							
Igbo	60.7 58.9 54.7 55.3 51.9 65.2 923							
Yoruba	65.6 68.2 64.8 59.5 60.9 73.0 1096							
Other ethnic group		39.2	34.5	34.4	28.0	32.2	39.8	2985

Table RH.14C: Content of postnatal care for newborns (continued)

Percent of last live births in the last two years for which within 2 days after birth the umbilical cord was examined, the temperature of the newborn was assessed, breastfeeding counseling was done and breastfeeding observed, counseling on danger signs for newborns was done and the newborn was weighed, Nigeria, 2016 -17

Percentage of newborn receiving postnatal care signal function of:						Percentage of newborns who	Number of
Cord	Temperature	Counseling observation of children	Counseling the preceding children	Weight signs for	the preceding signal lastborn on and on danger functions within 2	received a least 2 of	
							in the last

	examination	assessment	breastfeeding	assessment	newborns	days after birth ¹	two years
Total	30.4	28.1	28.3	23.6	26.6	32.1	11547
State							
Abia 45.8 40.3 33.3 30.4 31.2 45.3 99 Adamawa 37.9 32.9 30.8 29.8 29.1 38.8 264 Akwa Ibom 64.7 47.4 47.4 40.3 39.7 58.9 228 Anambra 78.3 78.8 77.7 80.2 76.0 82.0 140 Bauchi 9.0 8.3 8.3 5.1 7.8 9.1 618 Bayelsa 29.3 20.7 26.1 21.8 21.9 31.8 73 Benue 38.0 32.2 32.9 25.8 29.9 38.1 271 Borno 12.8 14.1 13.1 8.6 18.7 17.3 692 Cross River 65.7 55.7 56.1 51.0 55.0 65.5 162 Delta 52.5 50.0 50.1 46.7 50.5 57.6 173 Ebonyi 39.8 46.3 38.3 39.1 34.2 48.3 111 Edo 75.6 71.4 74.2 69.4 70.8 80.8 101 Ekiti 54.7 63.2 69.8 56.8 57.4 70.6 54 Enugu 59.8 68.0 58.2 52.5 53.8 73.7 105							
Gombe 17.7 16.3 20.1 15.5 19.5 21.7 236 Imo 53.1 41.7 37.7 43.8 34.5 53.3 164 Jigawa 14.3 13.9 18.0 12.0 14.3 17.1 595							
Kaduna 28.8 29.2 30.9 28.3 28.7 31.4 663 Kano 17.1 11.8 12.7 9.3 11.6 15.3 1038							
Katsina 10.8 5.9 10.1 7.6 8.1 10.3 916 Kebbi 13.8 9.9 14.4 7.9 12.9 14.5 398 Kogi 53.9 49.2 48.7 43.7 47.1 56.4 133 Kwara 54.5 56.8 58.7 47.7 57.8 62.7 115							
Lagos 82.9 80.0 77.3 77.0 76.7 86.2 429 Nasarawa 35.5 36.0 34.6 27.2 32.3 38.1 244 Niger 34.9 33.3 31.6 17.5 30.9 34.8 527 Ogun 65.3 70.4 66.4 44.5 56.7 77.8 132							
Ondo 68.9 68.7 67.1 61.9 62.4 73.4 163							
Osun 51.2 59.8 58.1 42.8 46.7 62.3 161 Oyo 59.6 58.9 51.2 53.9 52.0 62.8 322 Plateau 30.3 30.8 27.2 24.0 24.4 35.6 392 Rivers 62.5 56.6 57.7 50.6 56.0 63.3 163 Sokoto 6.0 6.9 6.7 4.2 5.5 7.6 409							
Taraba 8.9 8.1 6.9 6.2 7.0 8.7 173 Yobe 15.1 11.7 13.5 8.6 10.8 13.7 410 Zamfara 16.1 11.7 13.8 5.9 12.3 13.7 583							
FCT Abuja 51.1 44.7 43.0 38.7 40.4 51.6 89							

Table RH.15: Post-natal health checks for mothers

Percentage of women age 15-49 years with a live birth in the last two years who received health checks while in facility or at home following birth, percent distribution who received post-natal care (PNC) visits from any health provider after birth at the time of last birth, by timing of visit, and percentage who received post natal health checks, Nigeria, 2016 -17

	PNC visit for mothers ^b								Post-natal			
	Health check following birth while in facility	After the					No post- natal	Misssing/ Don't live in the or at home ^a	health check for women with day birth	Number of women with birth		
		1 day following	2 days following	3-6 days following	first week following	After the						
Total	33.4	4.2	1.0	1.5	1.6	2.3	89.4	0.1	100.0	37.1	11,547	
Geopolitical zone												
North Central	42.6	5.6	1.3	2.6	1.3	1.2	87.8	0.1	100.0	47.3	1,770	
North East	22.7	3.6	0.5	0.6	0.4	2.1	92.8	0.0	100.0	24.7	2,394	
North West	15.8	3.9	0.7	0.8	0.7	1.3	92.5	0.1	100.0	19.9	4,603	
South East	62.9	2.1	1.6	2.0	1.9	4.3	88.0	0.1	100.0	64.5	620	
South South	61.1	6.1	2.0	3.3	5.2	6.4	77.0	0.0	100.0	67.8	900	
South West	71.1	3.8	1.3	2.6	5.1	3.5	83.7	0.0	100.0	73.9	1,261	
Residence												
Urban	55.8	5.6	1.0	2.3	2.8	3.3	85.0	0.0	100.0	60.1	3,426	
Rural	24.0	3.5	1.0	1.2	1.2	1.8	91.3	0.1	100.0	27.4	8,121	
Mother's age at birth (years)												
Less than 20	22.5	4.3	1.1	1.1	1.6	2.5	89.4	0.0	100.0	26.9	1,516	
20-34	35.5	4.0	1.1	1.6	1.6	2.3	89.4	0.0	100.0	39.1	7,969	
Missing	33.3	4.6	0.5	1.5	1.7	1.9	89.7	0.1	100.0	36.7	2,062	
Place of delivery												
Home	4.7	4.3	0.7	1.1	0.9	1.6	91.4	0.0	100.0	10.2	6,952	
Health facility	80.2	3.7	1.3	2.0	2.7	3.4	86.7	0.1	100.0	80.6	4,333	
Public	80.0	4.3	1.3	1.7	2.0	2.9	87.7	0.1	100.0	80.5	2,823	
Private	80.5	2.6	1.3	2.6	4.2	4.3	84.8	0.2	100.0	80.8	1,511	
Other/DK/Missing	21.7	8.2	1.7	3.0	3.1	1.2	82.8	0.0	100.0	33.1	262	
Type of delivery												
Vaginal birth	31.9	4.0	1.0	1.5	1.6	1.9	89.9	0.0	100.0	35.6	11,223	
C-section	87.6	7.8	0.5	0.8	3.3	14.7	72.5	0.4	100.0	87.9	324	
Education												
None	15.1	2.4	0.4	0.7	0.5	1.0	95.0	0.0	100.0	17.1	3,208	
Non-formal	10.1	5.9	0.4	0.5	0.7	1.7	90.7	0.0	100.0	15.6	2,560	
Primary	35.1	3.5	0.9	2.4	1.3	2.9	89.0	0.0	100.0	39.3	1,716	
Secondary	56.1	4.7	2.1	2.3	3.1	2.8	85.0	0.1	100.0	60.4	3,182	
Higher	82.5	4.7	0.8	2.7	4.1	5.2	82.3	0.2	100.0	84.0	882	
Wealth Index quintile												
Poorest	7.9	2.8	0.3	0.4	0.2	1.5	94.9	0.0	100.0	10.6	2,587	
Second	17.0	3.5	0.6	1.1	1.0	1.2	92.5	0.1	100.0	20.8	2,548	
Middle	30.9	4.6	1.5	2.0	1.4	1.6	89.0	0.1	100.0	35.8	2,270	
Fourth	50.2	5.4	1.4	1.9	2.8	3.4	85.0	0.1	100.0	54.7	2,113	
Richest	72.0	5.0	1.3	2.5	3.3	4.1	83.7	0.1	100.0	74.5	2,028	
Ethnicity of household head												

Hausa	17.0	4.0	0.7	1.0	0.8	1.6	91.9	0.0	100.0	20.8	6,543	Igbo	67.7	2.1	1.2	1.7	2.7	4.4	87.8	0.1	100.0	69.2	923	Yoruba	70.2	5.0	1.2	2.6	5.6	2.7
	82.8	0.0	100.0	73.4	1,096																									
Other ethnic group							45.2	4.9	1.5	2.1	1.7						2.8	86.9	0.1	100.0	49.5								2,985	

^a Health checks by any health provider following facility births (before discharge from facility) or following home births (before departure of provider from home).

^b Post-natal care visits (PNC) refer to a separate visit by any health provider to check on the health of the mother and provide preventive care services. PNC visits do not include health checks following birth while in facility or at home (see note ^a above).

^c Post-natal health checks include any health check performed while in the health facility or at home following birth (see note ^a above), as well as PNC visits (see note ^b above) within two days of delivery.

Table RH.15: Post-natal health checks for mothers (continued)
 Percentage of women age 15-49 years with a live birth in the last two years who received health checks while in facility or at home following birth, percent distribution who received post-natal care (PNC) visits from any health provider after birth at the time of last birth, by timing of visit, and percentage who received post natal health checks, Nigeria, 2016 -17

	PNC visit for mothers ^b										Number of birth birth birth
	Health check following birth while in facility or visit know	1 day Same following Total mother ^{1, c} last two years	2 days following	3-6 days following	After the first week following care	No post- natal /Don't the live birth in the	Misssing	Post-natal health check for women with a day birth	at home ^a	day	
Total	33.4	4.2	1.0	1.5	1.6	2.3	89.4	0.1	100.0	37.1	11,547
States											
Abia	59.7	1.1	2.7	2.8	4.0	2.8	86.6	0.0	100.0	61.7	99
Adamawa	37.8	11.5	1.6	0.7	1.0	1.9	83.4	0.0	100.0	39.4	264
Akwa Ibom	55.5	8.0	1.8	2.1	6.1	11.7	70.3	0.0	100.0	63.3	228
Anambra	73.5	3.0	0.7	1.1	0.0	4.3	90.3	0.6	100.0	74.5	140
Bauchi	13.9	0.2	0.0	0.4	0.0	0.4	98.9	0.0	100.0	14.3	618
Bayelsa	31.4	13.2	7.1	2.8	4.2	0.6	72.0	0.0	100.0	51.9	73
Benue	54.1	0.3	2.1	1.3	1.2	1.1	94.0	0.0	100.0	55.4	271
Borno	34.7	4.8	0.0	0.3	0.0	2.2	92.7	0.0	100.0	37.8	692
Cross River	58.8	1.4	4.6	6.5	10.3	9.2	68.0	0.0	100.0	66.3	162
Delta	61.0	10.3	0.0	4.5	4.2	4.8	76.3	0.0	100.0	68.5	173
Ebonyi	45.4	3.6	1.9	0.8	1.5	4.0	88.1	0.0	100.0	48.8	111
Edo	81.7	3.9	0.6	2.3	3.7	3.0	86.6	0.0	100.0	83.0	101
Ekiti	61.5	2.0	1.8	3.3	2.6	1.3	89.0	0.0	100.0	61.5	54
Enugu	73.7	3.0	0.8	4.7	1.2	9.5	80.7	0.0	100.0	74.7	105
Gombe	21.7	3.2	0.6	1.2	1.8	1.5	91.8	0.0	100.0	23.1	236
Imo	60.5	0.3	2.1	1.2	2.8	2.2	91.3	0.0	100.0	61.8	164
Jigawa	15.5	0.8	0.6	1.1	1.9	0.8	94.8	0.0	100.0	18.0	595
Kaduna	35.1	1.2	0.8	1.0	0.3	0.9	95.8	0.0	100.0	36.7	663
Kano	13.3	3.3	1.0	0.9	0.5	1.5	92.6	0.2	100.0	17.3	1,038
Katsina	13.6	2.5	0.6	0.4	1.0	1.7	93.8	0.0	100.0	14.9	916
Kebbi	10.7	2.9	0.7	1.7	0.3	2.2	92.1	0.2	100.0	13.5	398
Kogi	67.8	11.5	1.1	2.5	0.0	0.0	83.1	1.8	100.0	70.9	133
Kwara	59.2	5.5	0.6	2.5	4.6	0.6	86.3	0.0	100.0	64.3	115
Lagos	80.0	4.4	1.4	1.9	6.6	6.7	78.9	0.0	100.0	82.8	429
Nasarawa	39.8	1.8	2.1	2.2	1.3	1.7	90.8	0.0	100.0	43.9	244
Niger	28.9	9.8	1.1	3.0	1.3	0.9	84.0	0.0	100.0	37.6	527
Ogun	74.0	3.2	1.3	1.1	3.7	1.6	89.1	0.0	100.0	76.0	132
Ondo	66.0	4.8	1.5	1.9	7.9	2.2	81.7	0.0	100.0	69.4	163
Osun	68.1	6.6	1.5	3.0	4.7	2.0	82.2	0.0	100.0	72.0	161
Oyo	63.7	1.5	0.8	4.3	2.8	1.7	88.8	0.0	100.0	66.2	322
Plateau	37.7	4.9	1.0	3.3	0.9	1.9	88.1	0.0	100.0	40.3	392
Rivers	71.7	2.0	0.7	1.3	1.2	2.6	92.3	0.0	100.0	72.8	163
Sokoto	9.9	1.4	0.0	0.7	0.1	0.8	97.0	0.0	100.0	11.5	409
Taraba	17.2	1.2	2.1	0.3	0.4	0.0	96.0	0.0	100.0	19.2	173
Yobe	8.7	2.5	0.8	1.1	0.7	6.1	88.8	0.0	100.0	12.2	410
Zamfara	9.7	15.8	0.7	0.4	0.8	1.0	81.3	0.0	100.0	25.0	583
FCT Abuja	58.5	2.1	1.0	3.1	1.4	1.3	91.0	0.0	100.0	62.7	89

^a Health checks by any health provider following facility births (before discharge from facility) or following home births (before departure of provider from home).

^b Post-natal care visits (PNC) refer to a separate visit by any health provider to check on the health of the mother and provide preventive care services. PNC visits do not include health checks following birth while in facility or at home (see note ^a above).

^c Post-natal health checks include any health check performed while in the health facility or at home following birth (see note ^a above), as well as PNC visits (see note ^b above) within two days of delivery.

Table RH.16: Post-natal care visits for mothers within one week of birth

Percent distribution of women age 15-49 years with a live birth in the last two years who received a post-natal care (PNC) visit within one week of birth, by location and provider of the first PNC visit, Nigeria, 2016 -17

	Location of first PNC visit for mothers				Provider of first PNC visit for mothers							Number of women with a live birth in the last two years who received a PNC visit within one week of birth	
	Home Sector	Public sector	Private sector	Other location	Total	Doctor/nurse/ midwife	Auxiliary midwife	Community health worker	Traditional birth attendant		Total		
									Other	Other			
Total	60.2	29.2	8.8	1.8	100.0	21.2	40.9	6.4	5.4	26.0	100.0	954	
Geopolitical zone													
North Central	58.6	28.5	12.6	0.2	100.0	27.7	37.7	4.8	3.2	26.5	100.0	192	
North West	66.1	31.8	1.4	0.6	100.0	20.4	27.0	9.5	11.7	31.4	100.0	282	
South South		67.4	22.3	9.0	1.3	100.0	8.6	44.2	2.4	5.2	39.6	100.0	150
South West		58.8	17.2	16.0	8.0	100.0	28.4	55.8	6.6	1.3	7.9	100.0	161
Residence													
Urban		54.5	29.1	13.7	2.8	100.0	28.6	46.7	4.6	3.0	17.1	100.0	399
Rural		64.4	29.2	5.3	1.1	100.0	15.9	36.8	7.7	7.1	32.4	100.0	555
Mother's age at birth (years)													
Less than 20	77.9	19.8	1.5	0.8	100.0	13.5	33.8	8.8	3.7	40.2	100.0	124	
20-34		56.2	32.4	9.8	1.6	100.0	22.4	42.9	4.5	5.8	24.4	100.0	171
35-49		63.0	23.4	10.4	3.3	100.0	22.4	42.9	4.5	5.8	24.4	100.0	171
Place of delivery													
Home	76.6	19.8	3.0	0.7	100.0	11.3	28.8	7.9	8.0	44.0	100.0	487	
Health facility	42.6	41.6	15.4	0.4	100.0	33.9	55.1	3.9	3.0	4.2	100.0	425	
Public	36.3	61.9	1.5	0.3	100.0	30.3	55.1	5.5	4.6	4.5	100.0	264	
Private		52.8	8.4	38.2	0.6	100.0	39.7	55.0	1.3	0.4	3.7	100.0	162
Other/Missing/Don't know		49.6	11.6	9.7	29.0	100.0	8.6	37.9	15.4	0.0	38.1	100.0	42
Type of delivery													
Vaginal birth		62.1	27.9	8.2	1.9	100.0	19.2	41.6	6.5	5.7	27.1	100.0	914
C-section	(18.6)	(57.9)	(23.5)	(0.0)	100.0	(67.9)	(24.8)	(5.5)	(0.0)	(1.9)	100.0	40	
Education													
None	64.2	30.5	2.7	2.5	100.0	18.1	34.1	5.6	12.9	29.4	100.0	129	
Non-formal	76.8	21.7	1.5	0.0	100.0	8.2	21.9	10.3	8.6	51.2	100.0	192	
Primary	66.9	25.8	5.9	1.4	100.0	19.8	35.6	6.9	3.6	34.2	100.0	139	
Secondary	52.8	31.4	12.7	3.1	100.0	22.9	52.1	6.1	3.1	15.8	100.0	386	
Higher		44.0	36.9	19.2	0.0	100.0	44.0	50.1	1.2	1.6	3.1	100.0	108
Wealth Index quintile													
Poorest		75.9	23.0	1.1	0.0	100.0	13.7	16.2	7.4	9.7	52.9	100.0	93
Second	71.5	25.9	2.2	0.4	100.0	11.6	23.5	10.9	13.1	40.9	100.0	159	
Middle	61.5	32.9	3.6	2.1	100.0	17.0	43.6	6.1	4.8	28.5	100.0	212	
Fourth	31.0	10.7	0.6	100.0	21.7	46.0	5.5	3.6	23.1	100.0	244		
Richest		48.5	28.5	18.7	4.3	100.0	33.5	54.2	4.3	1.1	6.9	100.0	245
Ethnicity of household head													
Hausa	62.4	33.1	4.0	0.4	100.0	22.9	27.8	8.3	8.5	32.5	100.0	421	
Igbo	56.5	18.6	24.3	0.5	100.0	20.1	65.5	4.7	0.0	9.6	100.0	71	
Yoruba		58.4	19.4	15.0	7.1	100.0	29.0	55.0	5.5	1.3	9.1	100.0	159
Other ethnic group		59.0	31.2	8.5	1.2	100.0	15.1	46.0	4.7	4.6	29.6	100.0	303

() Sample data are based on 25-49 unweighted cases

Table RH.17: Post-natal health checks for mothers and newborn	
Percent distribution of women age 15-49 years with a live birth in the last two years by post-natal health checks for the mother and newborn, within two days of the most recent birth, Nigeria, 2016 -17	
Post-natal health checks within two days of birth	
	Number of women
for: Missing	
Both mothers Mothers Newborns Neither mother /Don't with a live birth in and newborns only only nor newborn know Total the last two years	

	Post-natal health checks within two days of birth for:					Number of women with		Mothers
	Both mothers and newborns only	Newborns only	Neither mother nor newborn	Missing/ Don't know	a live birth in the last newborns Total	two years		
Total	34.3	2.8	2.8	60.1	0.0	100.0	11,547	
States								
Abia	56.8	4.9	6.2	32.1	0.0	100.0	99	
Adamawa	36.8	2.6	1.7	58.9	0.0	100.0	264	
Akwa Ibom	62.1	1.2	2.8	33.9	0.0	100.0	228	
Anambra	72.8	1.7	3.7	21.8	0.0	100.0	140	
Bauchi	13.7	0.6	2.0	83.6	0.0	100.0	618	
Bayelsa	46.7	5.2	2.1	46.0	0.0	100.0	73	
Benue	52.9	2.5	1.0	43.6	0.0	100.0	271	
Borno	34.6	3.2	0.8	61.4	0.0	100.0	692	
Cross River	64.1	2.2	5.3	28.5	0.0	100.0	162	
Delta	63.7	4.8	3.6	27.9	0.0	100.0	173	
Ebonyi	45.8	2.9	7.8	43.4	0.0	100.0	111	
Edo	79.8	3.2	3.4	13.6	0.0	100.0	101	
Ekiti	57.4	4.1	7.8	30.7	0.0	100.0	54	
Enugu	70.3	4.4	2.9	22.4	0.0	100.0	105	
Gombe	21.6	1.5	2.5	74.4	0.0	100.0	236	
Imo	58.9	2.9	3.8	34.4	0.0	100.0	164	
Jigawa	15.6	2.4	1.5	80.4	0.0	100.0	595	
Kaduna	34.5	2.2	2.4	60.9	0.0	100.0	663	
Kano	13.1	4.3	4.4	78.3	0.0	100.0	1,038	
Katsina	13.8	1.1	0.9	84.2	0.0	100.0	916	
Kebbi	9.4	4.1	2.3	84.2	0.0	100.0	398	
Kogi	65.1	4.6	1.6	27.4	1.3	100.0	133	
Kwara	61.0	3.3	4.9	30.8	0.0	100.0	115	
Lagos	79.5	3.3	6.4	10.8	0.0	100.0	429	
Nasarawa	40.2	3.7	2.0	54.1	0.0	100.0	244	
Niger	33.9	3.8	2.9	59.4	0.0	100.0	527	
Ogun	72.9	3.1	3.6	20.4	0.0	100.0	132	
Ondo	66.2	3.2	7.2	23.3	0.0	100.0	163	
Osun	66.0	6.1	4.2	23.7	0.0	100.0	161	
Oyo	63.7	2.6	5.1	28.7	0.0	100.0	322	
Plateau	38.5	1.8	2.6	57.2	0.0	100.0	392	
Rivers	71.7	1.0	5.4	21.8	0.0	100.0	163	
Sokoto	9.2	2.4	1.0	87.5	0.0	100.0	409	
Taraba	18.9	0.3	1.9	78.9	0.0	100.0	173	
Yobe	11.1	1.1	1.0	86.8	0.0	100.0	410	
Zamfara	19.5	5.5	2.2	72.8	0.0	100.0	583	

FCT Abuja	59.7	3.0	3.2	34.1	0.0	100.0	89
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IX. Early Childhood Development

Early Childhood Education

Table CD.1: Early childhood education

Percentage of children age 36-59 months who are attending an organized early childhood education programme, Nigeria, 2016-17

Percentage of age 36-59 months attending of early childhood age education ¹	Percentage of children age 36-59 months attending early childhood education [Public]	Percentage of children age 36-59 months attending early childhood education [Private]	Percentage of children age 36-59 months children attending early childhood education [Missing information on type of school]	Number children 36-59 months

Total	35.6	12.9	22.6	0.1	11,674
GeoPolitical zone					
North Central	36.7	13.8	22.9	0.0	1,986
North East	13.3	7.0	6.3	0.0	2,559
North West	19.5	12.2	7.1	0.2	4,360
South East	81.4	25.7	55.7	0.0	631
South South	78.0	20.8	57.2	0.0	937
South West	82.2	13.6	68.6	0.0	1,201
Sex					
Male	35.7	13.1	22.5	0.1	5,906
Female	35.4	12.7	22.7	0.1	5,767
Residence					
Urban	56.3	13.4	42.9	0.0	3,572
Rural	26.4	12.7	13.7	0.1	8,102
Age of child (months)					
36-47	30.6	10.0	20.5	0.0	5,818
48-59	40.5	15.7	24.7	0.1	5,856
Mother's education					
None	13.4	8.2	5.2	0.0	3,437
Non formal	11.7	10.1	1.5	0.2	2,616
Primary	39.8	19.0	20.8	0.0	1,876
Secondary	66.1	17.7	48.3	0.1	2,847
Higher	84.2	11.2	72.9	0.0	897
Missing/Don't know	45.1	45.1	0.0	0.0	1
Wealth index quintile					
Poorest	7.6	6.2	1.4	0.0	2,704
Second	16.3	11.2	5.1	0.0	2,485
Middle	33.1	18.5	14.5	0.1	2,352
Fourth	55.3	20.1	35.3	0.0	2,064
Richest	78.2	10.1	68.0	0.1	2,069
Ethnicity of household head					
Hausa	16.5	10.3	6.1	0.1	6,465
Igbo	80.8	20.9	59.9	0.0	930
Yoruba	84.0	15.5	68.6	0.0	1,098
Other ethnic group	44.3	14.9	29.4	0.0	3,180

¹ MICS indicator 6.1 - Attendance to early childhood education

Table CD.1: Early childhood education (continued)

Percentage of children age 36-59 months who are attending an organized early childhood education programme, Nigeria, 2016-17

	Percentage of children age 36-59 months attending early childhood education 36-59 months	Percentage of children age 36-59 months attending early childhood information on children age 36-59 months	Percentage of children age 36-59 attending education [Missing Number of children age education ¹]	Percentage of children age 36-59 months attending early childhood education [Private] type of school	
Total	35.6	12.9	22.6	0.1	11674
State					
Abia	76.2	23.0	53.2	0.0	86
Adamawa	15.3	7.6	7.4	0.3	254
Akwa Ibom	74.6	18.7	55.9	0.0	244
Anambra	90.1	28.2	61.9	0.0	167
Bauchi	9.4	4.9	4.5	0.0	624
Bayelsa	62.9	20.1	42.8	0.0	79
Benue	46.5	11.6	34.9	0.0	319
Borno	20.7	10.3	10.5	0.0	818
Cross River	80.1	24.5	55.7	0.0	163
Delta	81.7	28.3	53.4	0.0	166
Ebonyi	42.8	25.8	16.9	0.0	104
Edo	79.2	12.6	66.6	0.0	116
Ekiti	97.1	38.3	58.8	0.0	53
Enugu	94.7	25.5	69.2	0.0	108
Gombe	12.0	8.8	3.2	0.0	213
Imo	90.9	24.4	66.4	0.0	165
Jigawa	11.1	9.0	1.8	0.3	559
Kaduna	51.1	28.5	22.4	0.2	687
Kano	18.1	9.5	8.5	0.1	929
Katsina	17.6	13.3	4.4	0.0	819
Kebbi	9.6	6.8	2.4	0.4	399
Kogi	46.8	13.3	33.5	0.0	173
Kwara	59.2	22.0	37.3	0.0	166
Lagos	85.2	6.1	79.0	0.0	412
Nasarawa	28.6	9.6	19.1	0.0	260
Niger	19.6	9.7	9.9	0.0	498
Ogun	87.4	18.6	68.8	0.0	125
Ondo	73.6	15.6	58.0	0.0	164
Osun	85.6	14.3	71.3	0.0	128
Oyo	76.9	15.8	61.1	0.0	320
Plateau	38.1	19.0	19.1	0.0	490
Rivers	83.1	18.8	64.3	0.0	168
Sokoto	4.6	2.9	1.7	0.0	429
Taraba	15.5	5.6	9.9	0.0	173
Yobe	4.4	3.5	1.0	0.0	477

Zamfara	12.3	9.1	3.0	0.2	539
FCT Abuja	52.7	15.1	37.6	0.0	80

¹ MICS indicator 6.1 - Attendance to early childhood education

Quality of Care

Table CD.2: Support for learning

Percentage of children age 36-59 months with whom adult household members engaged in activities that promote learning and school readiness during the last three days, and engagement in such activities by biological fathers and mothers, Nigeria, 2016-17

Percentage of children	Percentage of	Number of	Percentage of
Percentage of Mean living with their : children with Mean children age children with Number of children with whom number of _____ whom biological number of 36-59 months whom biological Mean children age adult household activities with Number of fathers have activities living with mothers have number of 36-59 months members have adult children engaged in four with their engaged in four activities with living with their engaged in four or household Biological Biological age 36-59 or more biological biological or more biological biological more activities ¹ members father mother months activities ² fathers fathers activities ³ mothers mothers			

Total	62.8	4.0	89.0	92.8	11,674	10.8	1.1	10387	28.1	2.2	10,836
GeoPolitical zone											
North Central	66.4	4.2	89.2	92.4	1,986	15.2	1.4	1771	30.3	2.4	1,834
North East	49.3	3.3	90.8	92.4	2,559	5.0	0.7	2322	15.4	1.6	2,365
North West	55.1	3.7	93.6	94.5	4,360	8.4	0.9	4080	19.8	1.6	4,121
South East	86.6	5.1	78.6	90.9	631	19.9	1.7	496	56.0	3.5	574
South South	85.8	5.1	74.2	89.4	937	19.0	1.6	695	52.1	3.3	838
South West	82.7	4.8	85.2	92.0	1,201	13.8	1.4	1023	48.2	3.2	1,105
Sex											
Male	62.4	4.0	89.8	92.6	5,906	11.6	1.2	5303	27.5	2.1	5,468
Female	63.1	4.0	88.2	93.1	5,767	10.0	1.0	5084	28.7	2.2	5,368
Residence											
Urban	76.0	4.5	88.0	92.8	3,572	16.2	1.4	3144	41.5	2.8	3,316
Rural	56.9	3.8	89.4	92.8	8,102	8.5	1.0	7243	22.2	1.9	7,520
Age (months)											
36-47	62.1	4.0	89.1	93.3	5,818	10.4	1.1	5181	28.5	2.2	5,428
48-59	63.4	4.0	88.9	92.3	5,856	11.3	1.1	5206	27.7	2.1	5,408
Mother's education											

None	47.9	3.4	89.5	90.2	3,437	6.8	0.8	3078	15.5	1.5	3,099
Non-formal	50.0	3.4	92.7	93.8	2,616	3.7	0.6	2425	11.6	1.2	2,454
Primary	66.1	4.1	87.7	92.6	1,876	9.3	1.1	1646	24.4	2.1	1,738
Secondary	80.9	4.8	86.3	94.6	2,847	17.0	1.5	2457	49.1	3.2	2,694
Higher	92.3	5.3	87.0	94.8	897	30.8	2.2	781	65.5	4.0	851
Missing/Don't know	100.0	6.0	54.9	45.1	1	54.9	2.2	1	45.1	2.7	0

Table CD.2: Support for learning (continued)

Percentage of children age 36-59 months with whom adult household members engaged in activities that promote learning and school readiness during the last three days, and engagement in such activities by biological fathers and mothers, Nigeria, 2016-17

	Percentage of children with whom Biological fathers have number of fathers activities ³	Mean number of children engaged in four or more mothers	Percentage of children with number of months biological or biological	Number of living with their: children biological or more biological	Percentage of children engaged in four or more biological	Mean children age biological	Percentage of adult household members engaged in four or more activities ¹	Mean age 36-59 children with living with their engaged in four or more activities ²	Percentage of children with biological father mother 36-59 months	Number of living with mothers household more activities ²	
Father's education											
None	47.3	3.4	100.0	97.0	1,871	7.9	0.9	1871	16.9	1.7	1,814
Non-formal	53.8	3.6	64.8	82.8	3,650	3.6	0.5	2363	17.2	1.5	3,022
Primary	63.7	4.0	100.0	97.9	1,789	9.1	1.1	1789	27.5	2.1	1,751
Secondary	73.3	4.5	100.0	96.7	2,783	15.4	1.4	2783	39.1	2.7	2,690
Higher	82.4	4.8	100.0	98.6	1,556	25.2	2.0	1556	48.4	3.2	1,534
Missing/Don't know	55.9	3.4	100.0	100.0	25	0.0	0.7	25	19.5	1.7	25
Wealth index quintile											
Poorest	45.5	3.3	93.5	93.6	2,704	5.4	0.7	2529	11.3	1.3	2,530
Second	51.5	3.5	91.1	93.3	2,485	6.4	0.8	2265	17.9	1.6	2,319
Middle	61.6	3.9	85.2	91.0	2,352	7.5	0.9	2004	23.9	1.9	2,139
Fourth	75.9	4.5	84.0	91.4	2,064	13.9	1.3	1733	36.3	2.6	1,886
Richest	87.1	5.1	89.7	94.8	2,069	23.9	1.9	1857	58.9	3.7	1,962
Ethnicity of household head											
Hausa	53.3	3.6	93.1	93.7	6,465	7.3	0.9	6019	18.5	1.6	6,057
Igbo	85.7	5.1	83.1	92.8	930	20.8	1.8	773	57.8	3.6	863

Yoruba	85.6	4.9	83.1	91.1	1,098	14.4	1.5	913	48.9	3.3	1,001
Other ethnic group	67.5	4.2	84.4	91.7	3,180	13.8	1.3	2683	31.6	2.4	2,915
¹ MICS indicator 6.2 - Support for learning ² MICS Indicator 6.3 - Father's support for learning ³ MICS Indicator 6.4 - Mother's support for learning na:											
not applicable											

^a The background characteristic "Mother's education" refers to the education level of the respondent to the Questionnaire for Children Under Five, and covers both mothers and primary caretakers, who are interviewed when the mother is not listed in the same household. Since indicator 6.4 reports on the biological mother's support for learning, this background characteristic refers to only the educational levels of biological mothers when calculated for the indicator in question.

Kano	62.6	3.8	92.6	95.0	929	7.8	0.9	860	20.4	1.7	883
Katsina	58.7	4.0	95.2	94.1	819	3.5	0.6	780	14.2	1.3	771
Kebbi	38.3	3.0	95.0	94.4	399	7.9	1.3	379	9.7	1.3	377
Kogi	83.3	4.9	72.9	84.5	173	16.4	1.4	126	36.4	2.6	146
Kwara	77.9	4.9	88.1	95.3	166	21.9	2.1	146	48.6	3.4	158
Lagos	92.9	5.4	90.1	95.7	412	28.6	2.1	371	69.1	4.1	394
Nasarawa	61.9	4.0	90.6	92.5	260	20.0	1.9	235	29.9	2.6	241
Niger	55.2	3.8	97.0	95.7	498	2.8	0.8	483	13.2	1.8	476
Ogun	83.6	4.8	84.7	94.4	125	5.3	0.9	106	46.6	3.0	118
Ondo	75.9	4.4	75.8	87.4	164	7.3	1.1	124	44.3	2.9	143
Osun	87.3	5.0	78.7	85.8	128	11.0	1.3	101	40.1	2.9	110
Oyo	71.7	4.2	87.7	91.0	320	2.3	0.8	280	29.2	2.4	291
Plateau	71.1	4.2	87.6	92.2	490	23.8	1.6	429	40.3	2.8	452
Rivers	85.4	5.1	82.6	91.6	168	24.4	2.0	139	57.8	3.7	154
Sokoto	36.3	2.9	91.0	92.9	429	1.4	0.3	390	2.9	0.7	398
Taraba	52.8	3.2	88.8	89.9	173	3.4	0.4	154	17.8	1.4	156
Yobe	38.2	2.7	92.0	94.7	477	1.2	0.4	439	3.6	0.8	452
Zamfara	51.0	3.6	93.5	94.6	539	2.4	0.4	504	16.2	1.4	510
FCT Abuja	65.6	4.2	92.6	95.2	80	20.5	1.8	74	41.7	3.1	76

¹ MICS indicator 6.2 - Support for learning

² MICS Indicator 6.3 - Father's support for learning

³ MICS Indicator 6.4 - Mother's support for learning na:

not applicable

^a The background characteristic "Mother's education" refers to the education level of the respondent to the Questionnaire for Children Under Five, and covers both mothers and primary caretakers, who are interviewed when the mother is not listed in the same household. Since indicator 6.4 reports on the biological mother's support for learning, this background characteristic refers to only the educational levels of biological mothers when calculated for the indicator in question.

Table CD.3: Learning materials

Percentage of children under age 5 by numbers of children's books present in the household, and by playthings that child plays with, Nigeria, 2016-17

	Percentage of children living in households that have for the child:		Percentage of children who play with:				Number of
	more children's books	10 or more children's books	Home toys	Toys from a shop /manufactured outside	Household objects /objects found age 5	Two or more children types of	
Total	5.6	0.5	47.1	30.1	62.1	45.7	28,085
GeoPolitical zone							
North Central	5.1	0.4	46.9	22.8	70.1	46.5	4,616
North East	1.9	0.0	39.0	19.1	58.9	33.8	6,041
North West	1.8	0.1	49.8	25.0	62.0	46.6	10,635
South East	15.7	1.4	49.4	41.2	54.9	48.1	1,550
South South	15.6	1.3	51.0	49.7	60.8	55.3	2,273
South West	14.9	1.7	50.3	61.6	60.9	57.0	2,968
Sex							
Male	5.5	0.5	47.3	30.1	62.9	45.8	14,213
Female	5.8	0.5	46.9	30.1	61.3	45.6	13,872
Residence							
Urban	12.2	1.2	53.0	49.5	59.0	54.2	8,553
Rural	2.8	0.1	44.5	21.6	63.4	42.0	19,532
Age (months)							
0-23	1.0	0.1	32.3	24.2	39.2	29.8	10,898
24-59	8.6	0.7	56.5	33.8	76.6	55.8	17,187
Mother's education							
None	0.8	0.0	41.9	14.8	62.8	37.8	8,134
Non-formal	0.8	0.0	46.2	19.6	63.6	42.2	6,196
Primary	4.1	0.1	47.1	27.7	66.7	46.0	4,330
Secondary	10.5	0.5	50.4	45.0	60.7	52.3	7,245
Higher	24.4	4.1	58.0	72.5	50.1	62.5	2,178
Missing/Don't know	0.0	0.0	66.2	0.0	100.0	66.2	2
Wealth index quintile							
Poorest	0.3	0.0	42.8	11.6	62.6	37.9	6,369
Second	0.9	0.0	42.8	16.1	63.2	38.7	6,018
Middle	2.7	0.1	46.2	25.0	66.5	44.8	5,549
Fourth	7.0	0.1	50.4	39.3	63.9	50.6	5,156
Richest	19.8	2.4	55.4	66.9	53.2	59.9	4,993

Ethnicity of household head																
Hausa	1.7	0.1	47.6	22.7	62.2	43.3	15,592	Igbo	17.0	1.4	48.9	48.2	53.7	49.4	2,310	
Yoruba							15.2		1.4		52.1		59.2	63.4	58.6	2,640
Other ethnic group							6.9		0.7		43.8		29.6	63.8	45.0	7,543

¹ MICS indicator 6.5 - Availability of children's books
² MICS indicator 6.6 - Availability of playthings

Table CD.3: Learning materials (continued)							
Percentage of children under age 5 by numbers of children's books present in the household, and by playthings that child plays with, Nigeria, 2016-17							
Percentage of children living in households that have for the child:							
Percentage of children who play with:							
3 or more objects/ books ¹	10 or more objects/ books	Toys from a Household	Two or more toys	Number of children's toys found outside	children's Homemade playthings ²	shop/ manufactured under age 5	

Total	5.6	0.5	47.1	30.1	62.1	45.7	28,085
State							
Abia	14.9	3.6	49.7	38.7	59.9	47.5	224
Adamawa	1.8	0.1	22.1	22.6	32.4	19.4	624
Akwa Ibom	10.7	1.8	42.7	52.8	57.9	50.6	600
Anambra	25.2	1.4	49.1	44.8	56.6	50.9	383
Bauchi	0.5	0.0	32.9	12.0	59.9	26.6	1,524
Bayelsa	10.0	0.3	44.3	35.9	81.2	52.7	177
Benue	6.7	0.4	40.2	13.1	67.8	38.5	697
Borno	4.4	0.0	58.6	32.6	69.7	55.7	1,851
Cross River	12.2	0.6	60.4	41.5	80.6	63.1	393
Delta	18.3	2.3	49.1	43.8	63.4	52.4	409
Ebonyi	6.5	1.1	49.4	39.3	48.0	47.7	271
Edo	23.9	1.1	61.8	61.5	41.0	60.7	281
Ekiti	11.9	0.0	42.2	38.7	64.0	45.3	125
Enugu	12.9	0.7	62.1	40.0	64.9	56.8	268
Gombe	0.4	0.1	26.1	15.3	71.0	27.4	534
Imo	15.1	0.7	41.1	41.3	48.4	40.4	405
Jigawa	0.2	0.0	54.5	20.4	65.9	51.7	1,399
Kaduna	5.3	0.2	54.7	42.8	66.1	55.5	1,607
Kano	1.6	0.1	54.1	30.2	65.1	52.7	2,325
Katsina	1.1	0.1	51.3	21.5	53.0	41.4	2,066
Kebbi	1.7	0.4	36.0	21.6	57.6	35.8	935
Kogi	6.9	0.5	59.7	43.8	64.0	55.7	372
Kwara	7.7	0.5	56.4	23.4	73.7	54.7	358

Lagos	21.1	3.8	55.2	74.8	49.8	57.8	1,054
Nasarawa	2.6	0.0	43.1	18.0	69.2	38.4	607
Niger	2.7	0.1	43.7	22.6	74.7	46.7	1,270
Ogun	7.0	0.8	48.5	67.4	61.0	57.5	295
Ondo	14.9	0.8	50.3	51.1	60.9	53.6	408
Osun	11.7	0.9	41.8	57.5	75.6	57.3	342
Oyo	11.2	0.4	49.4	52.0	69.3	59.5	745
Plateau	5.7	0.7	49.8	20.2	71.1	50.1	1,103
Rivers	20.3	1.1	51.3	57.0	48.4	54.7	412
Sokoto	0.5	0.0	29.4	11.2	56.1	26.9	975
Taraba	1.5	0.0	29.2	7.9	54.2	26.5	422
Yobe	0.5	0.1	34.0	10.3	50.1	21.1	1,085
Zamfara	1.7	0.1	53.6	17.0	69.1	49.6	1,328
FCT Abuja	11.4	0.9	44.7	44.9	52.3	45.1	209

¹ MICS indicator 6.5 - Availability of children's books

² MICS indicator 6.6 - Availability of playthings

Table CD.4: Inadequate care

Percentage of children under age 5 left alone or left in the care of another child younger than 10 years of age for more than one hour at least once during the past week, Nigeria, 2016-17

Percentage of children under age 5:				
	Left alone in the past week	Left in the care of another child younger than 10 years of age in the past week	Left with inadequate care in the past week ¹	Number of children under age 5
Total	26.5	23.1	31.7	28,085
GeoPolitical zone				
North Central	33.5	30.1	39.2	4,616
North East 18.2 17.5 23.4 6,041				
North West 27.0 23.5 30.7 10,635				
South East 36.7 28.1 42.7 1,550				
South South	27.9	28.8	39.3	2,273
South West	24.4	15.4	29.3	2,968
Sex				
Male	26.9	23.6	32.2	14,213
Female	26.1	22.6	31.2	13,872
Residence				
Urban	26.6	21.5	31.2	8,553
Rural	26.5	23.8	32.0	19,532
Age (months)				
0-23	14.6	13.2	18.2	10,898
24-59	34.1	29.4	40.3	17,187
Mother's education				
None	23.7	21.4	27.9	8,134
Non-formal	27.3	25.3	31.9	6,196
Primary	27.9	24.9	34.2	4,330
Secondary	28.1	23.3	34.6	7,245
Higher	26.5	19.6	31.4	2,178
Missing/Don't know	33.8	0.0	33.8	2
Wealth index quintile				
Poorest	27.2	23.5	30.8	6,369
Second	26.2	24.1	31.2	6,018
Middle	26.6	24.6	32.2	5,549
Fourth	27.2	24.1	34.7	5,156
Richest	25.2	18.8	30.1	4,993
Ethnicity of household head				
Hausa	25.5	22.8	29.6	15,592
Igbo	32.9	25.8	39.1	2,310
Yoruba	24.5	16.3	29.7	2,640
Other ethnic group	27.4	25.4	34.5	7,543

¹ MICS indicator 6.7 - Inadequate care

Table CD.4: Inadequate care (continued)

Percentage of children under age 5 left alone or left in the care of another child younger than 10 years of age for more than one hour at least once during the past week, Nigeria, 2016-17

Percentage of children under age 5:			
Left alone in the past of children week age 5	Left in the care of another child younger than 10 years of age in the past week	Left with inadequate care in the past week ¹	Number under

Total	27.2	23.6	32.7	28,085
State				
Abia	30.9	20.3	36.1	224
Adamawa	12.2	13.9	16.2	624
Akwa Ibom	31.6	27.9	40.2	600
Anambra	26.5	22.3	29.9	383
Bauchi	12.8	6.8	14.2	1,524
Bayelsa	22.9	30.0	36.5	177
Benue	31.9	28.9	41.7	697
Borno	19.6	21.6	28.8	1,851
Cross River	30.8	45.1	53.4	393
Delta	31.1	23.6	38.7	409
Ebonyi	28.6	22.2	34.2	271
Edo	18.9	15.0	22.3	281
Ekiti	27.5	22.3	31.3	125
Enugu	41.8	31.0	50.1	268
Gombe	22.9	18.8	27.2	534
Imo	51.4	39.9	59.2	405
Jigawa	30.9	25.5	34.2	1,399
Kaduna	24.1	22.2	27.8	1,607
Kano	19.1	16.9	21.9	2,325
Katsina	32.7	29.0	37.7	2,066
Kebbi	27.6	24.8	31.0	935
Kogi	28.3	21.3	31.6	372
Kwara	14.5	13.6	18.8	358
Lagos	21.0	8.6	23.3	1,054
Nasarawa	35.1	30.7	39.3	607
Niger	45.6	39.6	49.3	1,270
Ogun	22.3	17.2	29.0	295
Ondo	29.7	25.3	40.8	408
Osun	35.3	27.0	40.7	342
Oyo	21.5	12.4	26.1	745
Plateau	28.8	29.1	35.6	1,103
Rivers	24.7	28.8	37.7	412
Sokoto	22.6	18.0	25.0	975
Taraba	25.6	33.5	35.5	422
Yobe	21.5	20.8	24.9	1,085
Zamfara	34.3	29.0	39.0	1,328
FCT Abuja	26.5	25.1	36.8	209
1 MICS indicator 6.7 - Inadequate care				

Developmental Status of Children

Table CD.5: Early child development index

Percentage of children age 36-59 months who are developmentally on track in literacy-numeracy, physical, social-emotional, and learning domains, and the early child development index score, Nigeria, 2016-17

Percentage of children age 36-59 months who are developmentally on track for indicated domains							Early child development index score ¹	Number of children age 36-59 months
Literacy-numeracy	Physical	Social-Emotional	Learning					

Total	29.3	89.8	71.3	77.7	61.2	11,674
GeoPolitical zone						
North Central	29.7	91.2	77.0	77.5	67.3	1,986
North East	12.7	86.0	68.4	71.2	52.0	2,559
North West	14.6	90.1	67.0	75.7	51.3	4,360
South East	69.5	92.9	80.1	81.9	82.7	631
South South	65.0	92.0	68.8	87.8	77.1	937
South West	68.6	91.5	80.7	88.5	83.1	1,201
Sex						
Male	28.4	90.5	70.1	77.3	60.2	5,906
Female	30.3	89.1	72.5	78.0	62.2	5,767
Residence						
Urban	50.6	92.4	73.1	84.6	74.3	3,572
Rural	20.0	88.7	70.5	74.6	55.4	8,102
Age (months)						
36-47	22.6	87.5	70.1	72.4	54.9	5,818
48-59	36.0	92.1	72.5	82.9	67.5	5,856
Attendance to early childhood education						
Attending	68.3	94.0	74.2	89.2	82.0	4,150
Not attending	7.8	87.5	69.7	71.3	49.7	7,524
Mother's education						
None	9.5	86.6	70.8	70.0	48.7	3,437
Non-formal	8.0	89.2	68.0	75.8	50.7	2,616
Primary	31.6	90.9	71.8	77.0	63.9	1,876
Secondary	56.2	92.5	72.7	84.9	75.9	2,847
Higher	77.6	93.6	76.9	90.7	87.5	897
Wealth index quintile						
Poorest	4.5	87.4	70.8	72.8	47.1	2,704
Second	10.0	87.1	69.7	72.1	49.6	2,485
Middle	24.3	90.7	67.8	74.0	58.3	2,352
Fourth	47.8	91.6	73.0	82.7	72.7	2,064
Richest	72.4	93.7	76.0	89.7	85.4	2,069
Ethnicity of household head						
Hausa	13.2	88.5	67.5	73.6	51.1	6,465
Igbo	69.4	93.3	78.9	83.7	81.3	930
Yoruba	69.3	91.1	77.9	87.6	81.7	1,098
Other ethnic group	36.6	91.0	74.4	80.8	68.9	3,180

¹ MICS indicator 6.8 - Early child development index

Table CD.5: Early child development index (continued)

Percentage of children age 36-59 months who are developmentally on track in literacy-numeracy, physical, social-emotional, and learning domains, and the early child development index score, Nigeria, 2016-17

Percentage of children age 36-59 months who are developmentally on track for indicated domains						
Early child						Number of children age 36-59 months
Literacy-numeracy	Physical	Social-Emotional	Learning	development index score ¹		

Total	29.3	89.8	71.3	77.7	61.2	11,674
State						
Abia	74.3	91.7	84.2	81.6	82.5	86
Adamawa	17.6	85.5	68.3	74.6	51.2	254
Akwa Ibom	67.2	88.5	63.4	79.7	73.7	244
Anambra	85.5	94.5	76.1	85.8	89.9	167
Bauchi	5.6	76.4	62.8	51.1	27.9	624
Bayelsa	46.3	95.4	72.5	89.1	77.4	79
Benue	28.3	87.9	65.8	60.4	52.7	319
Borno	19.6	96.3	69.6	75.8	66.1	818
Cross River	45.7	84.8	43.5	91.0	58.5	163
Delta	61.5	93.1	69.1	90.4	76.8	166
Ebonyi	37.8	94.5	87.4	80.8	74.0	104
Edo	86.2	96.1	88.4	90.8	93.5	116
Ekiti	64.7	88.2	83.4	88.3	78.2	53
Enugu	75.3	90.6	88.2	83.1	85.2	108
Gombe	15.5	85.2	55.5	84.4	50.4	213
Imo	66.9	92.2	72.0	77.8	79.3	165
Jigawa	13.8	88.7	76.0	72.7	50.5	559
Kaduna	32.9	88.8	50.5	60.5	43.3	687
Kano	15.6	91.0	76.0	81.4	61.0	929
Katsina	10.5	93.4	67.5	82.5	55.7	819
Kebbi	11.4	92.7	71.7	73.7	53.0	399
Kogi	51.7	89.2	80.2	82.5	73.6	173
Kwara	51.9	84.4	66.0	81.1	65.4	166
Lagos	80.5	93.9	83.9	91.9	89.9	412
Nasarawa	21.3	85.8	69.1	80.3	59.2	260
Niger	15.5	95.0	89.6	82.3	77.9	498
Ogun	65.6	95.9	88.9	91.5	91.7	125
Ondo	60.7	93.7	62.8	75.2	66.7	164
Osun	66.0	94.4	70.8	89.1	80.2	128
Oyo	60.4	84.9	86.1	89.5	81.5	320
Plateau	30.1	94.7	78.1	77.1	66.6	490
Rivers	78.2	98.5	85.8	90.9	89.1	168
Sokoto	4.3	94.2	78.0	61.3	44.4	429
Taraba	22.1	78.6	75.1	77.6	51.7	173
Yobe	3.0	84.1	77.2	79.7	60.7	477
Zamfara	7.4	81.9	50.4	91.2	42.8	539
FCT Abuja	54.5	95.3	76.8	92.3	81.3	80
1 MICS indicator 6.8 - Early child development index						

X. Literacy and Education

Literacy among Young Women and Men

Table ED.1: Literacy (young women)			
Percentage of women age 15-24 years who are literate, Nigeria, 2016-17			
	Percentage literate ¹	Percentage not known	Number of women age 15-24 years
Total	59.3	2.8	12,637
Geopolitical zone			
North Central	62.0	1.2	2,212
North East	41.9	3.6	2,533
North West	38.0	5.6	4,208
South East	95.4	0.0	921
South South	94.8	0.0	1,290
South West	92.6	0.3	1,474
Residence			
Urban	84.0	1.8	4,631
Rural	45.1	3.4	8,007
Education			
None	0.3	2.1	2,215
Non-formal	1.4	14.5	1,734
Primary	7.1	4.6	1,313
Secondary	100.0	0.0	6,501
Higher	100.0	0.0	874
Age (years)			
15-19	63.6	3.0	6,822
20-24	54.3	2.7	5,816
Wealth index quintile			
Poorest	13.5	5.5	1,988
Second	31.6	4.5	2,507
Middle	56.4	4.2	2,711
Fourth	84.5	0.7	2,636
Richest	95.9	0.3	2,796
Ethnicity of household head			
Hausa	35.9	4.7	6,088
Igbo	93.9	0.3	1,256
Yoruba	94.1	0.1	1,424
Other ethnic group	72.2	1.7	3,869
¹ MICS indicator 7.1; MDG indicator 2.3 - Literacy rate among young women			

Table ED.1: Literacy (young women) (continued)

Percentage of women age 15-24 years who are literate, Nigeria, 2016-17

	Percentage literate ¹	Percentage not known	Number of women age 15-24 years
Total	59.3	2.8	12,637
State			
Abia	98.2	0.0	108
Adamawa	50.6	0.4	310
Akwa Ibom	94.6	0.1	325
Anambra	98.1	0.0	228
Bauchi	25.6	2.2	607
Bayelsa	95.8	0.0	90
Benue	69.9	0.5	368
Borno	56.4	3.7	783
Cross River	94.3	0.0	248
Delta	91.0	0.0	202
Ebonyi	83.4	0.0	167
Edo	94.9	0.0	163
Ekiti	96.7	0.0	67
Enugu	97.9	0.0	198
Gombe	37.5	2.6	232
Imo	98.2	0.0	220
Jigawa	24.8	1.1	481
Kaduna	54.4	6.6	859
Kano	46.1	4.6	971
Katsina	32.6	3.9	729
Kebbi	30.9	0.3	361
Kogi	86.3	0.3	249
Kwara	73.5	0.0	155
Lagos	93.1	0.3	488
Nasarawa	56.0	1.6	283
Niger	37.6	1.3	534
Ogun	90.7	0.4	155
Ondo	91.4	0.2	206
Osun	94.7	0.7	250
Oyo	90.7	0.0	308
Plateau	65.1	2.6	497
Rivers	98.1	0.0	262
Sokoto	20.1	13.2	320
Taraba	53.1	1.9	207
Yobe	28.3	9.8	393

Zamfara	31.0	11.6	486
FCT Abuja	81.3	0.5	126

† MICS indicator 7.1; MDG indicator 2.3 - Literacy rate among young women

Table ED.1M: Literacy (young men)

Percentage of men age 15-24 years who are literate, Nigeria, 2016-17

	Percentage literate ¹	Percentage not known	Number of men age 15-24 years
Total	70.9	2.8	5,887
Geopolitical zone			
North Central	76.4	2.0	1,105
North East	53.1	0.8	1,193
North West	57.5	6.8	1,869
South East	94.3	0.0	384
South South	95.0	0.2	601
South West	93.7	0.8	735
Residence			
Urban	88.9	1.1	2,128
Rural	60.7	3.8	3,759
Education			
None	0.6	2.1	537
Non-formal	1.7	17.8	673
Primary	8.3	5.9	563
Secondary	100.0	0.0	3,568
Higher	100.0	0.0	544
Age (years)			
15-19	68.2	3.0	3,508
20-24	74.9	2.5	2,378
Wealth index quintile			
Poorest	28.5	7.7	1,106
Second	53.7	4.3	1,132
Middle	79.2	1.9	1,226
Fourth	90.4	0.5	1,219
Richest	97.9	0.1	1,203
Ethnicity of household head			
Hausa	52.9	5.2	2,786
Igbo	93.4	0.0	556
Yoruba	92.8	0.6	701
Other ethnic group	83.1	0.7	1,844
¹ MICS indicator 7.1; MDG indicator 2.3 - Literacy rate among young men ^[M]			

Table ED.1M: Literacy (young men) (continued)

Percentage of men age 15-24 years who are literate, Nigeria, 2016-17			
	Percentage literate ¹	Percentage not known	Number of men age 15-24 years
Total	70.9	2.8	5,887
State			
Abia	94.2	0.0	54
Adamawa 74.3 3.1 158 Akwa Ibom 92.7 1.1 138 Anambra 95.1 0.0 92			
Bauchi	39.8	0.3	286
Bayelsa	98.3	0.0	43
Benue	90.5	0.0	184
Borno	60.3	0.0	294
Cross River	95.0	0.0	102
Delta 95.3 0.0 99 Ebonyi 81.9 0.0 57 Edo 98.3 0.0 67 Ekiti 99.0 0.0 31			
Enugu	96.8	0.0	83
Gombe 47.5 0.0 118 Imo 98.9 0.0 98			
Jigawa	32.3	0.0	214
Kaduna 65.2 2.7 361 Kano 72.5 10.4 452 Katsina 62.6 0.0 263 Kebbi 41.8 0.5 180			
Kogi	92.4	1.7	126
Kwara	81.0	0.0	93
Lagos 98.3 0.0 226 Nasarawa 78.1 0.0 139 Niger 58.9 1.2 239 Ogun 89.0 2.1 83			
Ondo	93.4	0.0	92
Osun 94.8 2.9 135 Oyo 88.3 0.0 168 Plateau 69.6 6.1 272 Rivers 94.7 0.0 152			
Sokoto 47.4 24.8 152 Taraba 70.6 1.4 91			
Yobe 42.7 0.8 247 Zamfara 53.0 12.6 248			
FCT Abuja	90.1	0.0	52

¹ MICS indicator 7.1; MDG indicator 2.3 - Literacy rate among young men ^[M]

School Readiness

Table ED.2: School readiness		
Percentage of children attending first grade of primary school who attended pre-school the previous year, Nigeria, 2016-17		
	Percentage of children attending first grade who attended children attending first preschool in previous year ¹	Number of grade of primary school
Total	39.2	3,793
Geopolitical zone		
North Central	39.9	774
North East	24.6	630
North West	20.3	1,256
South East	63.6	322
South South	59.4	333
South West	76.8	479
Sex		
Male	39.7	1,934
Female	38.8	1,859
Residence		
Urban	51.8	1,345
Rural	32.3	2,447
Mother's education		
None	22.3	959
Non-formal	22.3	641
Primary	41.9	795
Secondary	57.4	1,085
Higher	57.2	301
Wealth index quintile		
Poorest	14.8	502
Second	26.5	759
Middle	35.8	888
Fourth	46.6	855
Richest	63.0	789
Ethnicity of household head		
Hausa	24.2	1,742
Igbo	65.7	421
Yoruba	71.4	454
Other ethnic group	39.7	1,176
¹ MICS indicator 7.2 - School readiness		

Table ED.2: School readiness (continued)

Percentage of children attending first grade of primary school who attended pre-school the previous year, Nigeria, 2016-17

	Percentage of children attending first grade who attended children attending first preschool in previous year ¹	Number of grade of primary school
Total	39.2	3,793
State		
Abia	84.2	50
Adamawa	25.0	86
Akwa Ibom	61.4	80
Anambra	57.9	72
Bauchi	8.1	108
Bayelsa	29.0	25
Benue	24.6	116
Borno	(30.5)	225
Cross River	77.8	69
Delta	(47.7)	29
Ebonyi	46.0	86
Edo	37.9	65
Ekiti	42.9	21
Enugu	66.0	65
Gombe	23.5	53
Imo	78.8	49
Jigawa	10.3	123
Kaduna	30.5	275
Kano	23.8	325
Katsina	15.9	243
Kebbi	11.3	63
Kogi	10.2	82
Kwara	68.6	66
Lagos	89.1	167
Nasarawa	34.4	102
Niger	23.0	151
Ogun	88.4	72
Ondo	61.0	86
Osun	(*)	23
Oyo	77.1	109
Plateau	56.7	214
Rivers	76.0	65
Sokoto	8.3	89
Taraba	23.3	61
Yobe	30.2	97
Zamfara	20.6	138
FCT Abuja	82.1	43

() Sample data are based on 25-29 unweighted cases

(*) Sample data are fewer than 25 unweighted cases

Primary and Secondary School Participation

Table ED.3: Primary school entry

Percentage of children of primary school entry age entering grade 1 (net intake rate), Nigeria, 2016-17

	Percentage of children of primary school entry age entering grade 1 ¹ age	Number of children of primary school entry age
Total	39.4	6,468
Geopolitical zone		
North Central	48.2	1,083
North East	27.2	1,492
North West	32.5	2,387
South East	60.5	344
South South	52.5	495
South West	56.3	666
Sex		
Male	39.8	3,280
Female	38.9	3,187
Residence		
Urban	52.0	1,995
Rural	33.7	4,472
Mother's education		
None	25.7	2,112
Non-formal	25.2	1,441
Primary	50.2	1,093
Secondary	56.7	1,375
Higher	70.5	434
Wealth index quintile		
Poorest	17.0	1,546
Second	32.9	1,422
Middle	43.0	1,274
Fourth	50.2	1,221
Richest	65.2	1,004
Ethnicity of household head		
Hausa	29.7	3,547
Igbo	62.2	512

Yoruba	57.9	607
Other ethnic group	45.7	1,802
<small>¹ MICS indicator 7.3 - Net intake rate in primary education</small>		

Table ED.3: Primary school entry (continued)	
Percentage of children of primary school entry age entering grade 1 (net intake rate), Nigeria, 2016-17	
	Percentage of children of primary school entry age entering grade 1 ¹ age

Total						39.4		6,467.80
State								
Abia						72.1		48.41
Adamawa						31.0		166.60
Akwa Ibom						48.0		99.74
Anambra						70.9		86.19
Bauchi						21.9		336.79
Bayelsa						56.7		40.45
Benue						43.7		160.97
Borno						31.7		474.81
Cross River						43.8		101.17
Delta						47.8		85.04
Ebonyi						46.8		71.21
Edo						66.7		69.90
Ekiti						57.2		24.00
Enugu						59.9		67.58
Gombe						22.7		129.06
Imo						54.4		70.63
Jigawa						24.0		338.12
Kaduna						39.6		387.26
Kano						35.4		550.95
Katsina						42.6		419.88
Kebbi						24.6		197.76
Kogi						66.6		99.09
Kwara						75.5		95.98
Lagos						78.2		229.77
Nasarawa						43.6		143.99
Niger						31.6		318.14
Ogun						60.5		64.31
Ondo						65.3		89.54
Osun						22.7		90.81
Oyo						37.9		167.19
Plateau						55.2		215.93
Rivers						58.1		98.45
Sokoto	27.0	187.46	Taraba	39.4	93.25	Yobe	22.0	291.89
Zamfara						22.2		306.06
FCT Abuja						61.6		49.28
¹ MICS indicator 7.3 - Net intake rate in primary education								

Table ED.4: Primary school attendance and out of school children

Percentage of children of primary school age attending primary or secondary school (adjusted net attendance ratio), percentage attending preschool, and percentage out of school, Nigeria, 2016-17

	Male					Female					Total				
	Percentage of children:					Percentage of children:					Percentage of children:				
	Net attendance school or (adjusted)	Not attending preschool	attendance preschool	attending school ^a	children	Net attendance school or (adjusted)	Not attending preschool	attendance preschool	attending school ^a	children	Net attendance school or (adjusted) ¹	Not attending preschool	attendance preschool	attending school ^a	children
Total	62.6	20.7	5.7	26.5	16,990	59.2	22.2	5.7	27.9	16,657	60.9	21.5	5.7	27.2	33,647
Geopolitical zone															
North Central	72.0	16.6	6.3	23.0	2,862	67.5	17.7	7.1	24.8	2,736	69.8	17.2	6.7	23.8	5,598
North East	48.8	34.1	3.1	37.3	3,774	44.0	38.2	4.2	42.4	3,783	46.4	36.2	3.7	39.8	7,557
North West	50.8	26.1	4.0	30.1	6,195	47.4	26.7	3.1	29.8	6,217	49.1	26.4	3.6	29.9	12,412
South East	88.3	2.2	9.3	11.5	1,016	88.8	2.0	9.1	11.1	901	88.5	2.1	9.2	11.3	1,917
South South	86.5	2.1	11.4	13.4	1,378	86.9	2.4	10.6	13.1	1,262	86.7	2.2	11.0	13.3	2,641
South West	85.2	5.0	9.8	14.8	1,764	85.6	3.9	10.4	14.3	1,758	85.4	4.5	10.1	14.6	3,522
Residence															
Urban	80.5	5.5	7.8	13.2	5,178	79.5	7.0	7.8	14.8	5,119	80.0	6.2	7.8	14.0	10,296
Rural	54.8	27.4	4.8	32.2	11,812	50.2	29.0	4.7	33.7	11,538	52.5	28.2	4.8	33.0	23,351

Age at beginning of school year

6	42.5	27.7	16.7	44.4	3,280	41.0	29.0	16.6	45.7	3,187	41.7	28.3	16.7	45.0	6,468
7	57.1	23.3	7.0	30.3	3,210	57.6	23.8	7.4	31.2	2,916	57.3	23.5	7.2	30.7	6,126
8	66.4	20.7	3.2	23.9	3,035	60.6	21.5	4.6	26.1	3,042	63.5	21.1	3.9	25.0	6,077
9	74.8	14.8	2.0	16.7	2,446	69.3	17.8	1.3	19.1	2,410	72.1	16.3	1.6	17.9	4,856
10	66.9	20.2	1.3	21.5	3,073	61.8	22.4	0.7	23.0	3,075	64.3	21.3	1.0	22.3	6,148
11	77.7	13.1	0.7	13.8	1,946	72.5	15.5	0.3	15.8	2,026	75.0	14.3	0.5	14.8	3,972

Table ED.4: Primary school attendance and out of school children (continued)

Percentage of children of primary school age attending primary or secondary school (adjusted net attendance ratio), percentage attending preschool, and percentage out of school, Nigeria, 2016-17

Male		Female		Total	
Percentage of children:		Percentage of children:		Percentage of children:	
Net	Not	Net	Not	Net	Not
attendance	attending	attendance	attending	attendance	attending
school or	Attending	school or	Attending	school or	Attending
Out of	Out of	Out of	Out of	Out of	Out of
of	of	of	of	of	of

	(adjusted) preschool preschool school ^a children					(adjusted) preschool preschool school ^a of children					(adjusted) ¹ preschool preschool school ^a children				
Mother's education															
None	46.5	43.8	3.9	47.8	5,795	41.5	49.1	3.4	52.5	5,488	44.1	46.4	3.7	50.1	11,283
Non-formal	44.4	15.6	2.4	17.9	3,773	38.5	15.8	2.8	18.6	3,777	41.4	15.7	2.6	18.2	7,550
Primary	79.6	8.7	9.0	17.8	2,992	77.5	9.9	8.0	17.9	2,955	78.5	9.3	8.5	17.8	5,946
Secondary	86.8	3.1	9.7	12.8	3,323	85.4	2.6	10.6	13.2	3,293	86.1	2.9	10.2	13.0	6,616
Higher	91.6	1.9	5.9	7.8	1,073	91.3	2.9	5.8	8.7	1,109	91.5	2.4	5.9	8.3	2,181
Wealth index quintile															
Poorest	28.6	48.4	1.8	50.2	3,970	23.7	50.4	1.4	51.8	3,796	26.2	49.4	1.6	50.9	7,766
Second	55.0	27.0	4.2	31.1	3,580	50.3	29.9	3.8	33.6	3,721	52.6	28.4	4.0	32.4	7,302
Middle	71.7	11.5	7.2	18.8	3,448	65.6	13.9	7.2	21.0	3,295	68.8	12.7	7.2	19.9	6,743
Fourth	80.2	5.9	8.7	14.6	3,182	78.1	6.0	10.5	16.5	3,112	79.1	6.0	9.6	15.5	6,294
Richest	89.4	1.7	8.1	9.8	2,809	91.6	1.3	6.9	8.2	2,733	90.5	1.5	7.5	9.0	5,542
Ethnicity of household head															
Hausa	48.5	29.1	3.5	32.7	9,201	44.6	30.8	3.4	34.2	9,283	46.6	29.9	3.5	33.4	18,483
Igbo	87.5	2.6	9.1	11.8	1,394	88.0	2.9	8.6	11.5	1,292	87.8	2.8	8.9	11.7	2,686
Yoruba	87.5	2.5	10.0	12.5	1,659	86.0	2.7	11.3	13.9	1,640	86.8	2.6	10.6	13.2	3,300

Other ethnic group	73.9	16.2	7.5	23.6	4,736	71.5	17.3	7.4	24.7	4,442	72.8	16.7	7.4	24.1	9,177
¹ MICS indicator 7.4; MDG indicator 2.1 - Primary school net attendance ratio (adjusted)															
^a The percentage of children of primary school age out of school are those not attending school and those attending preschool															

Table ED.4: Primary school attendance and out of school children (continued)
Percentage of children of primary school age attending primary or secondary school (adjusted net attendance ratio), percentage attending preschool, and percentage out of school, Nigeria, 2016-17

	Male	Female	Total
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	Percentage of children:					Percentage of children:					Percentage of children:							
	Net attendance ratio (adjusted)	Not attending school or preschool				Number of children	Net attendance ratio (adjusted)	Not attending school or preschool				Number of children	Net attendance ratio (adjusted) ¹	Not attending school or preschool				Number of children
		Attending preschool	Out of preschool	Attending school ^a	Out of school ^a			Attending preschool	Out of preschool	Attending school ^a	Out of school ^a			Attending preschool	Out of preschool	Attending school ^a	Out of school ^a	
Total	62.6	20.7	5.7	26.5	16,990	59.2	22.2	5.7	27.9	16,657	60.9	21.5	5.7	27.2	33,647			
State																		
Abia	91.3	2.9	5.9	8.7	137	95.6	1.1	3.3	4.4	133	93.4	2.0	4.6	6.6	269			
Adamawa	59.7	34.4	5.7	40.1	434	55.8	39.5	4.1	43.6	430	57.7	36.9	4.9	41.8	864			
Akwa Ibom	84.9	1.3	13.8	15.1	302	82.7	4.7	12.6	17.3	248	83.9	2.8	13.3	16.1	550			
Anambra	93.8	0.5	5.7	6.2	254	92.9	0.8	6.3	7.1	215	93.4	0.6	6.0	6.6	469			
Bauchi	40.9	57.1	2.0	59.0	893	36.4	60.8	1.5	62.3	927	38.6	59.0	1.7	60.7	1,820			
Bayelsa	83.3	4.6	12.2	16.7	109	86.6	7.0	6.4	13.4	110	84.9	5.8	9.3	15.1	219			
Benue	69.3	13.7	17.0	30.7	434	73.0	11.7	15.3	27.0	439	71.2	12.7	16.1	28.8	873			
Borno	58.4	6.7	3.4	10.1	1,100	48.1	14.7	7.2	22.0	1,218	53.0	10.9	5.4	16.3	2,318			
Cross River	82.8	2.9	14.0	16.8	298	86.8	1.1	12.1	13.2	282	84.8	2.0	13.1	15.1	580			
Delta	86.9	1.2	11.8	13.1	237	83.4	1.5	14.9	16.3	197	85.3	1.3	13.2	14.6	434			
Ebonyi	77.1	6.4	16.4	22.9	202	80.3	7.3	12.4	19.7	187	78.6	6.9	14.5	21.4	389			
Edo	91.2	0.8	8.0	8.8	182	91.7	1.1	7.3	8.3	173	91.4	0.9	7.6	8.6	355			
Ekiti	87.9	2.7	9.3	12.1	83	90.7	1.0	8.3	9.3	83	89.3	1.9	8.8	10.7	166			

Enugu	86.8	1.2	10.7	12.0	184	89.3	0.2	10.2	10.5	155	87.9	0.8	10.5	11.3	338
Gombe	39.8	52.8	3.5	56.3	314	36.2	56.8	3.0	59.8	331	37.9	54.9	3.2	58.1	645
Imo	91.3	0.9	7.8	8.7	234	87.7	0.3	12.0	12.3	211	89.6	0.6	9.8	10.4	451
Jigawa	39.9	40.1	3.8	43.9	920	37.3	42.3	3.4	45.6	855	38.6	41.1	3.6	44.7	1,776
Kaduna	65.1	15.3	9.2	24.5	1013	68.0	16.7	7.2	24.0	963	66.5	16.0	8.3	24.2	1,976
Kano	56.7	16.9	5.1	22.0	1339	53.0	16.3	3.2	19.6	1387	54.8	16.6	4.1	20.8	2,726
Katsina	55.8	34.3	2.7	36.9	1099	57.8	30.6	2.1	32.6	1095	56.8	32.4	2.4	34.8	2,193

Table ED.4: Primary school attendance and out of school children (continued)

Percentage of children of primary school age attending primary or secondary school (adjusted net attendance ratio), percentage attending preschool, and percentage out of school, Nigeria, 2016-17

Male					Female					Total									
Percentage of children:					Percentage of children:					Percentage of children:									
Net	Not				Net	Not				Net	Not								
attendance	attending	ratio	school	Attending	Out of	Number of	children	ratio	school	Attending	Out of	Number of	children	ratio	school	Attending	Out of	Number of	children
(adjusted)	preschool	preschool	school ^a	school ^a	(adjusted)	preschool	preschool	school ^a	school ^a	(adjusted) ¹	preschool	preschool	school ^a	school ^a	(adjusted) ¹	preschool	preschool	school ^a	school ^a

State															
Kebbi	37.8	31.9	1.5	33.4	542	31.3	32.5	1.3	33.8	566	34.5	32.2	1.4	33.6	1,108
Kogi	87.4	6.1	6.5	12.6	285	86.0	6.8	7.2	14.0	257	86.7	6.4	6.8	13.3	542
Kwara	86.6	13.0	0.4	13.4	238	85.5	10.2	4.3	14.5	209	86.1	11.7	2.2	13.9	447
Lagos	94.5	1.3	4.2	5.5	544.5	97.0	0.3	2.7	3.0	508.8	95.7	0.8	3.5	4.3	1,053
Nasarawa	73.1	19.4	7.0	26.3	383.9	68.4	20.3	9.1	29.4	351.0	70.9	19.8	8.0	27.8	735
Niger	58.1	24.1	2.6	26.7	823.5	45.9	28.3	3.5	31.8	822.9	52.0	26.2	3.0	29.2	1,646
Ogun	87.7	4.4	7.8	12.3	177.7	87.8	4.8	7.4	12.2	181.9	87.8	4.6	7.6	12.2	360
Ondo	91.4	3.4	5.2	8.6	274.9	92.3	3.3	4.4	7.7	281.5	91.8	3.3	4.8	8.2	556
Osun	71.0	2.5	26.5	29.0	243.8	75.3	1.9	22.8	24.7	248.2	73.1	2.2	24.7	26.9	492
Oyo	76.1	12.7	11.2	23.9	440.1	72.7	9.5	17.6	27.1	454.6	74.3	11.1	14.5	25.5	895
Plateau	76.2	14.9	6.0	20.9	570.2	75.5	14.7	6.3	21.0	535.6	75.8	14.8	6.1	20.9	1,106
Rivers	90.4	2.6	7.0	9.6	249.7	90.7	1.4	7.9	9.3	252.2	90.6	2.0	7.4	9.4	502
Sokoto	35.1	28.0	1.9	29.9	521.1	28.7	28.2	1.7	29.9	498.1	32.0	28.1	1.8	29.9	1,019
Taraba	57.9	32.1	6.7	38.7	292.7	58.5	31.6	8.1	39.7	255.3	58.2	31.9	7.3	39.2	548
Yobe	38.0	40.1	1.0	41.1	740.5	37.6	42.2	1.3	43.5	622.1	37.8	41.0	1.2	42.2	1,363
Zamfara	47.2	22.4	1.0	23.4	761.6	33.8	29.5	1.0	30.5	853.1	40.1	26.1	1.0	27.1	1,615
FCT Abuja	86.4	8.6	4.3	12.9	128.6	86.1	8.8	4.3	13.1	120.7	86.2	8.7	4.3	13.0	249

¹ MICS indicator 7.4; MDG indicator 2.1 - Primary school net attendance ratio (adjusted)
^a The percentage of children of primary school age out of school are those not attending school and those attending preschool

Table ED.5: Secondary school attendance and out of school children

Percentage of children of secondary school age attending secondary school or higher (adjusted net attendance ratio), percentage attending primary school, and percentage out of school, Nigeria, 2016-17

Male			Female			Total				
<u>Percentage of children:</u>			Net	<u>Percentage of children:</u>			Net	<u>Percentage of children:</u>		
Net attendance of (adjusted)	Attending school	Number of school ^a children	Net attendance (adjusted)	Attending school	Number of school ^a children	Net attendance (adjusted) ¹	Attending school	Number of school ^a children		

Total	47.4	19.2	24.4	12,695	46.2	16.5	27.3	12,160	46.9	17.9	25.8	24,855
Geopolitical zone												
North Central	51.2	26.5	19.3	2,183	49.4	23.4	22.3	2,060	50.3	25.0	20.7	4,242
North East	32.5	18.4	36.5	2,767	30.6	19.5	38.1	2,656	31.6	18.9	37.3	5,423
North West	36.4	17.2	30.3	4,435	30.3	13.8	36.8	4,197	33.5	15.6	33.5	8,632
South East	69.8	22.4	7.7	760	76.6	15.7	7.8	764	73.2	19.0	7.7	1,524
South South	73.6	17.7	8.7	1,136	79.4	12.2	8.4	1,135	76.5	14.9	8.5	2,271
South West	72.4	15.5	12.1	1,414	76.6	12.2	11.2	1,348	74.5	13.9	11.7	2,763
Residence												
Urban	66.4	17.5	12.0	4,303	65.8	16.5	13.1	4,420	66.1	17.0	12.6	8,723
Rural	37.7	20.1	30.8	8,392	35.1	16.4	35.4	7,740	36.5	18.4	33.0	16,132
Age at beginning of school year												
12	28.7	39.6	21.2	2,799	27.6	35.7	22.7	2,667	28.2	37.7	22.0	5,465
13	44.1	26.5	21.1	2,179	43.3	24.2	21.6	2,308	43.7	25.3	21.3	4,487
14	51.9	18.0	21.8	2,165	52.8	12.8	23.7	2,311	52.4	15.3	22.8	4,476
15	51.2	9.6	28.1	2,090	52.6	6.5	32.2	1,819	51.8	8.1	30.0	3,909
16	59.3	5.7	28.5	1,882	54.8	2.7	36.6	1,649	57.2	4.3	32.3	3,531
17	60.1	3.6	28.6	1,581	57.4	2.4	34.2	1,407	58.8	3.0	31.3	2,987

Mother's education												
None	29.6	21.6	43.4	4055	27.8	20.0	46.7	3,435	28.8	20.9	44.9	7,489
Non-formal	28.0	19.8	20.2	2403	24.8	16.9	18.7	2,163	26.5	18.5	19.5	4,566
Primary	58.5	24.9	14.7	2402	59.1	24.2	13.7	2,125	58.8	24.6	14.2	4,526
Secondary	75.8	16.8	7.1	1893	78.3	14.1	7.3	1,997	77.1	15.4	7.2	3,890
Higher	81.6	10.4	7.4	747	79.5	12.2	8.0	793	80.5	11.4	7.7	1,540
Cannot be determined ^b	59.1	8.0	26.5	1183	41.5	3.2	49.3	1,646	48.8	5.2	39.8	2,829

Table ED.5: Secondary school attendance and out of school children (continued)

Percentage of children of secondary school age attending secondary school or higher (adjusted net attendance ratio), percentage attending primary school, and percentage out of school, Nigeria, 2016-17

	Male				Female				Total			
	Net	Percentage of children:			Net	Percentage of children:			Net	Percentage of children:		
	attendance of (adjusted)	Attending school	Number attending school ^a	Attending children	attendance of (adjusted)	Attending school	Number attending school ^a	Attending ratio primary children	Out of (adjusted) ¹	of ratio primary school	of ratio primary school ^a	Number of children
Wealth index quintile												
Poorest	13.6	15.0	50.6	2,733	9.3	12.7	57.1	2,299	11.6	13.9	53.6	5,032
Second	33.3	23.2	32.8	2,557	25.6	18.6	39.3	2,339	29.6	21.0	35.9	4,896
Middle	53.7	23.8	16.2	2,559	43.2	22.1	24.3	2,539	48.5	23.0	20.3	5,097
Fourth	62.5	21.9	10.8	2,631	68.8	18.3	9.8	2,549	65.6	20.1	10.3	5,180
Richest	80.4	11.4	8.0	2,215	80.6	10.2	9.0	2,434	80.5	10.8	8.5	4,650
Ethnicity of household head												
Hausa	32.8	17.8	33.3	6,533	28.3	16.0	38.3	6,205	30.6	16.9	35.8	12,738
Igbo	69.7	19.7	10.0	1,106	77.0	14.5	8.4	1,031	73.2	17.2	9.2	2,137
Yoruba	72.4	16.3	11.1	1,394	76.8	12.4	10.6	1,344	74.6	14.4	10.9	2,738
Other ethnic group	57.4	22.7	18.0	3,662	57.1	19.3	19.9	3,581	57.2	21.0	18.9	7,242
¹ MICS indicator 7.5 - Secondary school net attendance ratio (adjusted)												
^a The percentage of children of secondary school age out of school are those who are not attending primary, secondary, or higher education												
^b Children age 15 or higher at the time of the interview whose mothers were not living in the household												

Table ED.5: Secondary school attendance and out of school children (continued)

Percentage of children of secondary school age attending secondary school or higher (adjusted net attendance ratio), percentage attending primary school, and percentage out of school, Nigeria, 2016-17

	Male				Female				Total			
	attendance (adjusted)	Attending school	primary school ^a	Out of school children	attendance (adjusted)	Attending school	primary school ^a	Out of school children	attendance (adjusted) ¹	Attending school	primary school ^a	Out of school children
Total	47.4	19.2	24.4	12,695	46.2	16.5	27.3	12,160	46.9	17.9	25.8	24,855
State												
Abia	71.9	17.8	10.3	105	79.2	12.0	8.8	96	75.4	15.0	9.5	201
Adamawa	42.7	24.9	31.8	298	37.8	24.0	37.5	318	40.2	24.4	34.7	616
Akwa Ibom	75.6	15.7	8.7	242	78.2	14.3	7.5	254	76.9	15.0	8.1	496
Anambra	74.9	19.1	6.0	194	83.3	12.8	3.9	178	79.0	16.0	5.0	372
Bauchi	24.2	12.3	62.8	641	18.4	15.3	65.7	579	21.4	13.7	64.2	1,220
Bayelsa	73.1	17.8	9.1	93	77.6	9.8	12.7	85	75.2	14.0	10.8	178
Benue	51.2	38.2	10.6	378	52.5	31.8	15.7	360	51.8	35.1	13.1	738
Borno	39.3	21.7	12.8	843	41.5	21.5	15.9	845	40.4	21.6	14.4	1,688
Cross River	73.2	16.4	10.4	219	83.0	7.6	9.4	250	78.4	11.7	9.9	469
Delta	70.9	23.1	6.0	200	69.7	20.8	9.5	173	70.3	22.0	7.7	373
Ebonyi	54.4	34.7	10.9	154	54.9	30.5	14.6	148	54.6	32.7	12.7	302

Edo	74.0	21.4	4.6	138	83.2	11.5	5.3	155	78.9	16.2	4.9	293
Ekiti	77.4	13.2	9.3	62	78.3	12.3	9.4	60	77.9	12.8	9.3	123
Enugu	70.2	22.1	7.8	132	79.7	13.0	7.4	153	75.3	17.2	7.5	285
Gombe	26.2	18.4	51.3	266	25.8	14.9	55.5	214	26.0	16.8	53.1	480
Imo	76.3	18.4	5.3	175	83.3	10.8	5.8	189	80.0	14.5	5.6	364
Jigawa	21.7	16.5	45.7	588	17.4	14.1	51.5	564	19.6	15.3	48.6	1,152
Kaduna	47.4	17.6	27.5	799	40.8	18.4	32.0	787	44.1	18.0	29.7	1,586
Kano	45.3	20.3	17.8	968	39.3	16.4	25.2	982	42.3	18.3	21.5	1,950

Table ED.5: Secondary school attendance and out of school children (continued)

Percentage of children of secondary school age attending secondary school or higher (adjusted net attendance ratio), percentage attending primary school, and percentage out of school, Nigeria, 2016-17

Male		Female		Total	
Net	<u>Percentage of children:</u>	Net	<u>Percentage of children:</u>	Net	<u>Percentage of children:</u>

State	attendance of (adjusted)	Attending school	Number attending school ^a	attendance children	Attending (adjusted)	Number attending school	ratio primary school ^a	primary children	Out of (adjusted) ¹	ratio primary school	Out of school ^a	ratio primary children	Out of Number
Katsina	43.3	14.5	36.0	700	29.7	11.8	46.1	710	36.4	13.1	41.1		1,410
Kebbi	22.6	18.6	39.3	411	24.3	9.2	39.7	355	23.4	14.2	39.5		766
Kogi	64.6	23.9	11.6	213	65.3	22.3	12.4	212	64.9	23.1	12.0		424
Kwara	60.9	23.5	15.6	214	66.1	15.8	17.7	173	63.2	20.0	16.5		387
Lagos	79.9	6.1	14.0	427	83.4	7.1	9.6	388	81.6	6.6	11.9		815
Nasarawa	53.8	23.9	21.4	277	42.7	20.6	34.7	256	48.4	22.3	27.8		533
Niger	34.8	26.2	28.7	581	35.9	18.0	30.1	487	35.3	22.4	29.3		1,067
Ogun	74.1	16.3	9.6	160	76.5	12.6	10.9	163	75.3	14.4	10.3		323
Ondo	76.0	16.9	7.1	219	79.5	10.5	10.0	186	77.6	14.0	8.4		405
Osun	65.6	25.1	9.3	240	67.2	20.9	11.8	218	66.4	23.1	10.5		458
Oyo	62.7	20.1	17.1	306	73.0	13.2	13.8	333	68.1	16.5	15.4		640
Plateau	57.6	21.5	20.0	416	48.0	28.3	19.9	466	52.5	25.1	19.9		882
Rivers	73.9	14.3	11.4	243	82.4	9.6	8.0	219	78.0	12.1	9.8		462
Sokoto	17.0	19.9	31.2	365	16.3	10.9	35.4	312	16.7	15.8	33.1		678

Taraba	39.3	25.2	35.5	192	37.4	29.4	33.3	195	38.3	27.3	34.4	388
Yobe	27.0	14.4	37.8	527	21.2	16.3	38.5	504	24.1	15.3	38.1	1,031
Zamfara	35.2	12.8	26.0	602	24.8	9.1	36.0	487	30.5	11.2	30.5	1,089
FCT Abuja	62.2	24.2	13.2	103	64.6	18.8	16.6	107	63.4	21.5	14.9	210

¹ MICS indicator 7.5 - Secondary school net attendance ratio (adjusted)

^a The percentage of children of secondary school age out of school are those who are not attending primary, secondary, or higher education

^b Children age 15 or higher at the time of the interview whose mothers were not living in the household

Table ED.6: Children reaching last grade of primary school

Percentage of children entering first grade of primary school who eventually reach the last grade of primary school (Survival rate to last grade of primary school), Nigeria, 2016-17

	Percent	Percent	Percent	Percent
Percent attending grade 2 last school	Percent attending grade 3 last school	Percent attending grade 4 last school	Percent attending grade 5 last school	Percent attending grade 6 last school
1 last school year who are in attending grade 4 this school	1 last school year who are in attending grade 5 this school	1 last school year who are in attending grade 6 this school	1 last school year who are in attending grade 2 this school	1 last school year who are in attending grade 3 this school
of those who school year year year year enter grade 1 ¹				

Total	98.9	99.0	98.7	98.8	98.5	94.1
Goepolitical zone						
North Central	98.7	99.0	98.4	99.1	98.6	93.9
North East	99.7	99.1	97.8	98.7	98.5	94.0
North West	98.4	98.6	98.6	97.7	97.6	91.2
South East	99.0	99.9	100.0	99.2	99.3	97.4
South South	98.8	99.4	99.2	99.5	99.3	96.3
South West	99.4	99.0	99.5	100.0	99.4	97.3
Sex						
Male	99.1	99.1	99.1	99.0	99.1	95.5
Female	98.7	98.9	98.3	98.6	97.9	92.7
Residence						
Urban	99.5	99.4	98.9	99.4	98.6	95.8
Rural	98.6	98.8	98.6	98.5	98.5	93.2
Mother's education						
None	99.0	98.8	97.9	97.8	98.1	91.9
Non-formal	98.7	99.9	98.5	98.8	100.0	95.8
Primary	98.4	99.0	99.0	99.2	98.7	94.5
Secondary	99.7	99.5	99.6	99.8	99.4	98.0
Higher	99.5	100.0	99.9	99.6	98.9	98.0
Wealth index quintile						
Poorest	97.8	98.5	97.4	95.6	96.3	86.4
Second	98.8	99.0	97.8	98.5	98.0	92.3
Middle	98.8	98.6	98.7	98.6	98.3	93.1
Fourth	99.2	99.3	99.4	99.5	99.2	96.6
Richest	99.6	99.5	99.6	99.7	99.6	98.1
Ethnicity of household head						
Hausa	98.6	98.7	97.7	97.7	97.8	91.0
Igbo	99.3	99.4	100.0	99.4	99.4	97.5
Yoruba	99.3	99.6	99.5	99.7	99.5	97.6
Other ethnic group	99.0	99.1	99.3	99.5	98.8	95.7
¹ MICS indicator 7.6; MDG indicator 2.2 - Children reaching last grade of primary						

Table ED.6: Children reaching last grade of primary school (continued)

Percentage of children entering first grade of primary school who eventually reach the last grade of primary school (Survival rate to last grade of primary school), Nigeria, 2016-17

	Percent attending grade 1 last school who year who are in	Percent attending grade 2 last school year who are	Percent attending grade 3 last school year who are attending	Percent attending grade 4 last school year who are attending	Percent attending grade 5 last school year who are attending	Percent reach grade 6 of those who enter grade 1 ¹
	grade 2 this school year	attending grade 3 this school year	grade 4 this school year	grade 5 this school year	grade 6 this school year	
Total	98.9	99.0	98.7	98.8	98.5	94.1
State						
Abia	97.1	100.0	100.0	100.0	100.0	97.1
Adamawa	98.8	98.7	99.3	99.2	100.0	96.1
Akwa Ibom	98.7	100.0	98.7	100.0	99.2	96.7
Anambra	100.0	100.0	100.0	98.7	100.0	98.7
Bauchi	99.7	99.0	98.7	95.8	98.7	92.0
Bayelsa	97.5	97.8	94.0	94.6	94.3	79.9
Benue	98.5	97.9	98.1	98.2	93.3	86.7
Borno	100.0	(99.0)	(98.5)	(100.0)	(*)	97.6
Cross River	99.3	100.0	99.4	100.0	100.0	98.6
Delta	100.0	100.0	100.0	100.0	100.0	100.0
Ebonyi	97.0	99.3	100.0	99.1	96.1	91.7
Edo	100.0	100.0	100.0	(100.0)	100.0	(100.0)
Ekiti	97.9	100.0	100.0	(100.0)	(100.0)	97.9
Enugu	100.0	100.0	100.0	100.0	100.0	100.0
Gombe	100.0	98.8	100.0	(100.0)	98.8	100.0
Imo	100.0	100.0	100.0	98.8	100.0	98.8
Jigawa	100.0	99.0	99.1	98.8	97.3	94.4
Kaduna	99.6	96.2	100.0	100.0	98.2	94.1
Kano	98.7	99.8	98.3	97.9	98.6	93.6
Katsina	97.6	100.0	98.1	92.9	94.8	84.3
Kebbi	99.5	100.0	100.0	99.2	(100.0)	98.7
Kogi	96.2	99.5	100.0	98.1	99.0	92.9
Kwara	100.0	100.0	100.0	98.1	100.0	98.1
Lagos	100.0	98.6	100.0	100.0	99.4	98.0
Nasarawa	99.1	100.0	100.0	99.1	98.0	96.3
Niger	97.5	97.8	97.0	100.0	100.0	92.5
Ogun	100.0	98.7	100.0	100.0	98.7	100.0
Ondo	100.0	98.3	100.0	100.0	100.0	98.3
Osun	100.0	100.0	100.0	100.0	(100.0)	100.0
Oyo	97.2	99.3	97.6	(100.0)	(97.7)	92.0
Plateau	100.0	99.4	97.4	99.5	100.0	96.2
Rivers	97.0	98.1	100.0	100.0	(100.0)	95.2
Sokoto	96.6	100.0	96.7	(100.0)	(*)	93.4
Taraba	99.5	99.3	92.1	96.5	89.7	78.8
Yobe	100.0	100.0	96.7	100.0	(100.0)	96.7
Zamfara	95.2	96.6	97.0	97.0	98.8	85.7
FCT Abuja	99.8	100.0	99.7	100.0	99.0	98.5

¹ MICS indicator 7.6; MDG indicator 2.2 - Children reaching last grade of primary

() Sample data are based on 25-49 unweighted cases

(*) Sample data are fewer than 25 unweighted cases

Table ED.7: Primary school completion and transition to secondary school

Primary school completion rates and transition and effective transition rates to secondary school, Nigeria, 2016-17

	Number of school completion age children of primary school	Number of children who were in the last grade of Primary school the previous year	Effective Transition rate in the last grade of primary school current year	Number of children who were in the last grade of Primary school the previous year and are not repeating that grade in the rate ¹	Number of children who were in the last grade of Primary school the previous year and are not repeating that grade in the rate ¹	Number of children who were in the last grade of Primary school the previous year and are not repeating that grade in the rate ¹
Total	63.0	3,972	49.0	2,754	66.9	2,016
Geopolitical zone						
North Central	72.9	691	48.4	548	59.8	444
North East	54.0	782	31.0	422	51.0	256
North West	57.1	1,311	36.0	712	49.6	517
South East	70.7	279	58.2	250	81.8	178
South South	81.5	376	71.7	345	88.2	280
South West	60.8	532	63.7	478	89.4	341
Sex						
Male	68.5	1,946	50.4	1,470	66.9	1,106
Female	57.7	2,026	47.4	1,284	67.0	910
Residence						
Urban	67.6	1,434	52.0	1,214	73.5	859
Rural	60.4	2,538	46.6	1,540	62.1	1,157
Mother's education						
None	55.2	1,180	41.0	559	55.2	415
Non-formal	49.5	788	34.2	479	50.0	328
Primary	85.4	789	53.6	600	74.9	429
Secondary	61.4	892	63.0	697	85.2	516
Higher	56.2	312	71.0	229	89.2	182
Wealth index quintile						
Poorest	32.9	726	25.5	233	35.0	170
Second	64.1	754	39.3	510	50.0	401
Middle	77.7	815	47.8	581	64.9	428
Fourth	86.0	790	48.7	786	72.5	528
Richest	52.7	887	66.6	644	87.6	490
Ethnicity of household head						
Hausa	54.9	1,934	34.0	1,078	48.6	754
Igbo	73.9	387	60.3	337	81.0	250
Yoruba	63.9	488	62.2	452	91.0	309
Other ethnic group	72.4	1,163	56.2	887	71.0	702
¹ MICS indicator 7.7 - Primary completion rate ² MICS indicator 7.8 - Transition rate to secondary school						

Table ED.7: Primary school completion and transition to secondary school (continued)

Primary school completion rates and transition and effective transition rates to secondary school, Nigeria, 2016-17						
	Number of school Primary school and are not repeating that grade in the current school year	Number of children of primary school	Transition rate to secondary school completion age	Number of children who were in the last grade of primary school	Effective transition rate to secondary school ²	Number of children who were in the last grade of primary school the previous year
Total	63.0	3,972	49.0	2,754	66.9	2,016
State						
Abia	74.3	40	79.4	40	90.5	35
Adamawa	56.3	114	12.1	52 (20.1)	31	Akwa Ibom 83.5 72 83.9 70 92.0 64
Anambra	59.6	69	70.3	47	(95.8)	34
Bauchi	50.7	177 (28.9)	69 (41.0)	49	Bayelsa 74.2 35 48.8 24 (49.8)	15
Borno	(57.4)	232 (*)	155 (*)	75	Cross River 59.7 88 82.0 89 89.9 82	Delta 115.6 69 44.5 54 (85.0)
68	53.2	49	Edo 70.4 49 (64.2)	33 (97.2)	22	Ekiti 64.9 29 (48.2)
Enugu	65.4	56	65.7	46	(89.4)	34
Gombe	43.7	64	50.0	35 (78.4)	22	Imo 86.4 67 50.5 49 (95.2)
Kaduna	79.0	208	56.7	124	66.9	105
13.8	51 (32.6)	21	Kogi 82.2 71 38.2	55	50.0	42
Lagos	63.7	155	83.4	165	86.5	159
Nasarawa	81.5	80	59.1	76	61.8	72
Niger	59.0	198	18.5	107	26.0	76
Ondo	63.1	96	78.1	77	95.1	63
Oyo	47.1	133	52.3	100	(90.4)	58
Plateau	83.0	131	76.7	130	85.8	116
Sokoto	18.7	114	12.1	43 (*)	19	Taraba 89.9 53 40.2 50 (56.9)
Zamfara	47.9	166	42.9	113	50.6	96
FCT Abuja	98.0	38	79.5	30	86.5	27

¹ MICS indicator 7.7 - Primary completion rate ²

MICS indicator 7.8 - Transition rate to secondary school

() *Sample data are based on 25-49 unweighted cases*

(*) *Sample data are fewer than 25 unweighted cases*

Table ED.8: Education gender parity

Ratio of adjusted net attendance ratios of girls to boys, in primary and secondary school, Nigeria, 2016-17

	Primary school			Secondary school		
	Primary school adjusted net attendance ratio (NAR),	Primary school attendance secondary ratio (NAR), adjusted girls	Gender parity adjusted net primary school boys adjusted NAR ¹	Secondary school ratio (NAR), girls	Secondary school ratio (NAR), boys NAR ²	Gender parity index (GPI) for school
Total	59.2	62.6	.95	46.2	47.4	.97
Geopolitical zone						
North Central	67.5	72.0	0.9	51.2	1.0	
North East	44.0	48.8	0.9	32.5	0.9	0.9
North West	47.4	50.8	0.9	36.4	0.8	1.1
South East	88.8	88.3	1.0	69.8	1.1	1.1
South South	86.9	86.5	1.0	73.6	1.1	1.0
South West	85.6	85.2	1.0	72.4	1.1	
Residence						
Urban	79.5	80.5	1.0	65.8	66.4	1.0
Rural	50.2	54.8	0.9	35.1	37.7	0.9
Mother's education						
None	41.5	46.5	0.9	27.8	29.6	0.9
Non-formal	38.5	44.4	0.9	24.8	28.0	0.9
Primary	77.5	79.6	1.0	59.1	58.5	1.0
Secondary	85.4	86.8	1.0	78.3	75.8	1.0
Higher	91.3	91.6	1.0	79.5	81.6	1.0
Cannot be determined ^a	71.4	72.0	1.0	41.5	59.1	0.7
Wealth index quintile						
Poorest	23.7	28.6	0.8	9.3	13.6	0.7
Second	50.3	55.0	0.9	25.6	33.3	0.8
Middle	65.6	71.7	0.9	43.2	53.7	0.8

Fourth	78.1	80.2	1.0	68.8	62.5	1.1
Richest	91.6	89.4	1.0	80.6	80.4	1.0
Ethnicity of household head						
Hausa	44.6	48.5	0.9	28.3	32.8	0.9
Igbo	88.0	87.5	1.0	77.0	69.7	1.1
Yoruba	86.0	87.5	1.0	76.8	72.4	1.1
Other ethnic group	71.5	73.9	1.0	57.1	57.4	1.0
¹ MICS indicator 7.9; MDG indicator 3.1 - Gender parity index (primary school) ² MICS indicator 7.10; MDG indicator 3.1 - Gender parity index (secondary school)						
^a Children age 15 or higher at the time of the interview whose mothers were not living in the household na: not applicable						

Table ED.8: Education gender parity (continued)	
Ratio of adjusted net attendance ratios of girls to boys, in primary and secondary school, Nigeria, 2016-17	
Primary school	Secondary school

	Primary school adjusted net attendance ratio (NAR),	Primary school Gender parity attendance ratio (NAR), adjusted girls	primary school adjusted net attendance ratio (NAR) ¹	Secondary school index (GPI) for attendance ratio (NAR), girls	Secondary school attendance ratio (NAR), boys	Gender parity index (GPI) for school
Total	59.2	62.6	0.9	46.2	47.4	1.0
		State				
Abia	95.6	91.3	1.0	79.2	71.9	1.1
Adamawa	55.8	59.7	0.9	37.8	42.7	0.9
Akwa Ibom	82.7	84.9	1.0	78.2	75.6	1.0
Anambra	92.9	93.8	1.0	83.3	74.9	1.1
Bauchi	36.4	40.9	0.9	18.4	24.2	0.8
Bayelsa	86.6	83.3	1.0	77.6	73.1	1.1
Benue	73.0	69.3	1.1	52.5	51.2	1.0
Borno	48.1	58.4	0.8	41.5	39.3	1.1
Cross River	86.8	82.8	1.0	83.0	73.2	1.1
Delta	83.4	86.9	1.0	69.7	70.9	1.0
Ebonyi	80.3	77.1	1.0	54.9	54.4	1.0
Edo	91.7	91.2	1.0	83.2	74.0	1.1
Ekiti	90.7	87.9	1.0	78.3	77.4	1.0
Enugu	89.3	86.8	1.0	79.7	70.2	1.1
Gombe	36.2	39.8	0.9	25.8	26.2	1.0
Imo	87.7	91.3	1.0	83.3	76.3	1.1
Jigawa	37.3	39.9	0.9	17.4	21.7	0.8
Kaduna	68.0	65.1	1.0	40.8	47.4	0.9
Kano	53.0	56.7	0.9	39.3	45.3	0.9
Katsina	57.8	55.8	1.0	29.7	43.3	0.7
Kebbi	31.3	37.8	0.8	24.3	22.6	1.1
Kogi	86.0	87.4	1.0	65.3	64.6	1.0

Kwara	85.5	86.6	1.0	66.1	60.9	1.1
Lagos	97.0	94.5	1.0	83.4	79.9	1.0
Nasarawa	68.4	73.1	0.9	42.7	53.8	0.8
Niger	45.9	58.1	0.8	35.9	34.8	1.0
Ogun	87.8	87.7	1.0	76.5	74.1	1.0
Ondo	92.3	91.4	1.0	79.5	76.0	1.0
Osun	75.3	71.0	1.1	67.2	65.6	1.0
Oyo	72.7	76.1	1.0	73.0	62.7	1.2
Plateau	75.5	76.2	1.0	48.0	57.6	0.8
Rivers	90.7	90.4	1.0	82.4	73.9	1.1
Sokoto	28.7	35.1	0.8	16.3	17.0	1.0
Taraba	58.5	57.9	1.0	37.4	39.3	1.0
Yobe	37.6	38.0	1.0	21.2	27.0	0.8
Zamfara	33.8	47.2	0.7	24.8	35.2	0.7
FCT Abuja	86.1	86.4	1.0	64.6	62.2	1.0

¹ MICS indicator 7.9; MDG indicator 3.1 - Gender parity index (primary school) ²
MICS indicator 7.10; MDG indicator 3.1 - Gender parity index (secondary school)

^a Children age 15 or higher at the time of the interview whose mothers were not living in the household na:
not applicable

Table ED.9: Out of school gender parity	
Percentage of girls in the total out of school population, in primary and secondary school, Nigeria, 2016-17	
Primary	Secondary school

		Percentage of out of school children age	Number of children of primary school	Percentage of girls in the total out of school population of primary school age	Number of children primary school age out of school	Percentage of out of school children	Number of children of secondary school age	Percentage of girls in the total out of school population of secondary school age	Number of children of secondary school age out of school
Total		27.2	33,647	50.8	9,142	25.8	24,855	51.7	6,423
Geopolitical zone									
			North			20.7	4,242	52.2	879
Central	23.8	5,598		50.8	1,335				
North East				53.3	3,009	37.3	5,423	50.1	2,021
North West				49.8	3,717	33.5	8,632	53.4	2,889
South East				46.2	217	7.7	1,524	50.2	118
South South				47.1	350	8.5	2,271	49.3	194
South West				49.0	513	11.7	2,763	46.8	322
Residence									
			Urban						
	14.0	10,296		52.5	1,441				
Rural				50.5	7,700	12.6	8,723	52.9	1,096
						33.0	16,132	51.4	5,327
Mother's education									
			None						
	50.1	11,283		51.0	5,651				
Non-formal				50.9	1,378	44.9	7,489	47.7	3,363
						19.5	4,566	45.4	891
Primary				49.9	1,060	14.2	4,526	45.3	644
Secondary				50.6	862	7.2	3,890	51.8	281
Higher				53.2	180	7.7	1,540	53.5	119
Cannot be determined ^a				31.0	11	39.8	2,829	72.1	1,125
Wealth index quintile									
			Poorest						
	50.9	7,766		49.7	3,957				
Second				52.9	2,367	53.6	5,032	48.7	2,698
						35.9	4,896	52.3	1,759
Middle				51.7	1,339	20.3	5,097	59.8	1,032
Fourth				52.5	978	10.3	5,180	46.7	536

Richest	9.0	5,542	44.8	501	8.5	4,650	55.2	397
Ethnicity of household head								
Hausa	33.4	18,483	51.4	6,179	35.8	12,738	52.2	4,558
Igbo	11.7	2,686	47.6	313	9.2	2,137	43.7	197
Yoruba	13.2	3,300	52.5	436	10.9	2,738	47.9	298
Other ethnic group	24.1	9,177	49.5	2,214	18.9	7,242	52.0	1,370

^a Children age 15 or higher at the time of the interview whose mothers were not living in the household
na: not applicable

Table ED.9: Out of school gender parity (continued)								
Percentage of girls in the total out of school population, in primary and secondary school, Nigeria, 2016-17								
	Primary school				Secondary school			
	Percentage of out of school children school age	Number of school primary	Percentage of girls in the total out of school population of primary school	Number of children of primary school age out of age	Percentage of out of school children	Number of children of secondary school age	Percentage of girls in the total out of school population of secondary school age	Number of children of secondary school age out of school
Total	27.2	33,647	50.8	9,142	25.8	24,855	51.7	6,423
State								
Abia	6.6	269	(33.0)	18	9.5	201	(43.7)	19
Adamawa	41.8	864	51.9	361	34.7	616	55.7	214
Akwa Ibom	16.1	550	48.5	89	8.1	496	(47.7)	40
Anambra	6.6	469	(49.0)	31	5.0	372	(*)	19
Bauchi	60.7	1,820	52.3	1,105	64.2	1,220	48.6	783
Bayelsa	15.1	219	44.6	33	10.8	178	55.8	19
Benue	28.8	873	47.1	252	13.1	738	58.5	96
Borno	16.3	2,318	70.7	379	14.4	1,688	55.5	243

Cross River	15.1	580	42.5	87	9.9	469	(50.8)	46
Delta	14.6	434	51.0	63	7.7	373	(57.8)	29
Ebonyi	21.4	389	44.4	83	12.7	302	56.4	38
Edo	8.6	355	(47.4)	30	4.9	293	(*)	14
Ekiti	10.7	166	(43.3)	18	9.3	123	(49.2)	11
Enugu	11.3	338	42.4	38	7.5	285	(52.4)	22
Gombe	58.1	645	52.8	375	53.1	480	46.5	255
Imo	10.4	451	55.6	47	5.4	404	(*)	22
Jigawa	44.7	1,776	49.2	794	48.6	1,152	51.9	560
Kaduna	24.2	1,976	48.2	479	29.7	1,586	53.4	472
Kano	20.8	2,726	48.0	566	21.5	1,950	58.9	419
Katsina	34.8	2,193	46.8	763	41.1	1,410	56.6	579
Kebbi	33.6	1,108	51.4	372	39.5	766	46.6	302
Kogi	13.3	542	50.1	72	12.0	424	51.5	51
Kwara	13.9	447	48.8	62	16.5	387	47.8	64
Lagos	4.3	1,053	(33.8)	45	11.9	815	38.3	97
Nasarawa	27.8	735	50.5	204	27.8	533	60.0	148
Niger	29.2	1,646	54.4	481	29.3	1,067	46.8	313
Ogun	12.2	360	50.4	44	10.3	323	(53.6)	33
Ondo	8.2	556	47.8	45	8.4	9,405	(54.5)	34
Osun	26.9	492	46.5	132	10.5	458	(53.6)	48
Oyo	25.5	895	53.9	229	15.4	640	46.6	98
Plateau	20.9	1,106	48.6	231	19.9	882	52.7	176
Rivers	9.4	502	(49.6)	47	9.8	462	(38.6)	45
Sokoto	29.9	1,019	48.8	305	33.1	678	49.2	225

Taraba	39.2	548	47.2	215	34.4	388	48.8	133
Yobe	42.2	1,363	47.1	575	38.1	1,031	49.4	393
Zamfara	27.1	1,615	59.3	438	30.5	1,089	52.8	332
FCT Abuja	13.0	249	48.9	32	14.9	210	56.6	31

^a Children age 15 or higher at the time of the interview whose mothers were not living in the household na: not applicable

() Sample data are based on 25-49 unweighted cases (*)
Sample data are fewer than 25 unweighted cases

XI. Child Protection

Birth Registration

Table CP.1: Birth registration

Percentage of children under age 5 by whether birth is registered and percentage of children not registered whose mothers/caretakers know how to register birth, Nigeria, 2016-17

Children under age 5 whose birth is with civil authorities registered		Children under age 5 whose birth is not registered		
Has birth certificate	Total children	Number of children whose mother/caretaker knows how to register without birth	Percent of children whose mother/caretaker seen certificate	Number of children under age 5 registered ¹ under age 5 birth registration
Not	No birth	Total children	Percent of children whose mother/caretaker seen certificate	Number of children under age 5 registered ¹ under age 5 birth registration

Total	23.0	20.2	3.7	46.9	28,085	27.0	14,916
Geopolitical zone							
North Central	22.9	18.1	4.1	45.1	4,616	24.5	2534
North East	17.8	16.2	2.8	36.9	6,041	30.8	3812
North West	17.7	16.5	3.0	37.1	10,635	19.2	6692
South East	42.2	33.6	7.2	82.9	1,550	47.5	265
South South	30.0	28.8	5.7	64.6	2,273	43.2	805
South West	37.8	31.0	4.0	72.8	2,968	59.7	807
Sex							
Male	23.5	20.3	3.4	47.3	14,213	27.0	7490
Female	22.5	20.0	4.0	46.5	13,872	27.1	7426
Residence							
Urban	38.8	27.2	3.5	69.5	8,553	49.0	2613
Rural	16.2	17.1	3.8	37.0	19,532	22.4	12303
Age (Months)							
0-11	20.7	13.4	4.4	38.5	5,363	32.6	3297
12-23	25.3	19.9	3.7	48.8	5,535	27.7	2833
24-35	24.0	21.6	3.5	49.2	5,514	25.4	2802
36-47	22.1	22.5	3.2	47.8	5,818	24.3	3037
48-59	23.1	22.9	3.7	49.7	5,856	24.5	2946
Mother's education							
None	11.3	14.8	2.4	28.5	8,134	19.3	5819
Non-formal	11.1	11.0	2.4	24.5	6,196	19.6	4679
Primary	25.7	22.6	5.2	53.5	4,330	34.2	2013
Secondary	36.5	28.3	5.5	70.3	7,245	52.2	2148
Higher	50.6	34.5	3.2	88.3	2,178	69.2	255
Wealth index quintile							
Poorest	6.6	9.4	2.2	18.3	6,369	13.7	5204
Second	13.2	15.2	3.1	31.6	6,018	21.0	4118
Middle	21.0	19.3	4.4	44.7	5,549	36.1	3068
Fourth	32.3	29.7	5.3	67.3	5,156	46.9	1687
Richest	48.6	30.9	3.8	83.2	4,993	66.6	838
Ethnicity of household head							
Hausa	17.8	15.3	2.9	36.0	15,592	21.8	9984
Igbo	41.6	33.2	5.7	80.5	2,310	51.7	450
Yoruba	38.3	33.2	3.8	75.3	2,640	63.7	652
Other ethnic group	22.9	21.6	4.7	49.2	7,543	31.6	3830
1 MICS indicator 8.1 - Birth registration							

Table CP.1: Birth registration (continued)

Percentage of children under age 5 by whether birth is registered and percentage of children not registered whose mothers/caretakers know how to register birth, Nigeria, 2016-17

Children under age 5 whose birth is registered with civil authorities		Children under age 5 whose birth is not registered	
Has birth certificate	Number of children registered¹ under age 5	Percent of children whose mother/caretaker knows how to register birth	Number of children under age 5 without birth certificate

Total State	23.0	20.2	3.7	46.9	28,085	27.0	14,916
Abia	28.8	45.2	8.2	82.3	224	65.4	40
Adamawa	36.8	23.9	4.4	65.1	624	43.7	218
Akwa Ibom	30.2	26.6	5.1	61.8	600	49.2	229
Anambra	70.8	21.9	1.8	94.5	383	(47.0)	21
Bauchi	15.3	7.8	3.2	26.2	1,524	23.7	1,124
Bayelsa	17.1	26.6	5.4	49.0	177	39.4	90
Benue	22.4	15.7	6.2	44.3	697	39.8	389
Borno	22.8	26.3	1.9	51.0	1,851	55.0	908
Cross River	19.1	24.3	6.8	50.2	393	27.2	196
Delta	27.3	33.1	6.0	66.4	409	52.9	137
Ebonyi	33.8	38.9	3.5	76.2	271	18.0	64
Edo	55.6	29.3	2.6	87.5	281	57.1	35
Ekiti	35.7	38.2	9.2	83.0	125	73.9	21
Enugu	38.5	34.6	8.2	81.4	268	56.9	50
Gombe	14.4	12.8	2.3	29.6	534	16.4	376
Imo	30.5	33.9	13.4	77.8	405	55.6	90
Jigawa	8.1	14.6	0.9	23.6	1,399	7.0	1,069
Kaduna	26.4	26.0	2.7	55.1	1,607	31.7	722
Kano	19.2	12.4	3.7	35.3	2,325	22.0	1,504
Katsina	28.7	14.5	2.8	46.0	2,066	40.6	1,116
Kebbi	15.8	11.8	6.1	33.7	935	12.0	620
Kogi	28.9	29.8	4.3	63.0	372	12.7	137
Kwara	30.7	32.6	3.7	67.0	358	42.2	118
Lagos	47.9	32.0	2.3	82.3	1,054	89.9	187
Nasarawa	19.1	15.9	1.9	37.0	607	21.3	383
Niger	16.8	11.2	2.1	30.0	1,270	15.6	888
Ogun	29.7	27.7	2.8	60.2	295	61.3	117
Ondo	28.2	33.1	7.2	68.5	408	35.7	128
Osun	31.8	35.6	5.1	72.5	342	62.1	94
Oyo	35.3	26.3	3.7	65.2	745	46.9	259
Plateau	23.3	19.1	6.5	48.8	1,103	26.6	564
Rivers	30.9	32.9	7.7	71.5	412	45.9	118
Sokoto	5.7	22.2	1.6	29.5	975	6.6	688
Taraba	10.1	18.4	4.1	32.5	422	16.7	285
Yobe	6.8	7.5	2.7	17.0	1,085	22.6	901
Zamfara	7.4	16.1	3.2	26.7	1,328	7.6	973
FCT-Abuja	46.5	23.6	4.0	74.1	209	52.0	54
			1 MICS indicator	8.1 - Birth registration			

() Sample data are based on 25-49 unweighted cases

Child Labour

Table CP.2: Children's involvement in economic activities

Percentage of children by involvement in economic activities during the last week, according to age groups, Nigeria, 2016-17								
	Percentage of children age 5-11 years involved in economic activity for at least one hour	Percentage of children age 12-14 years involved in:			Percentage of children age 15-17 years involved in:			Number of children age 15-17 years
		Number of children age 5-11 years	Economic activity less than 14 hours	Economic activity for 14 hours or more	Number of children age 12-14	Economic activity less than 43 hours	Economic activity for 43 hours or more	
Total	43.2	37,469	60.1	10.9	13,328	73.2	1.6	10,312
Geopolitical zone								
North Central	47.5	6,221	65.3	10.8	2,281	77.7	2.1	1,853
North East	38.4	8,332	57.2	11.0	3,023	72.8	0.5	2,241
North West	48.8	13,860	62.6	13.5	4,621	73.8	1.7	3,541
South East	38.4	2,211	62.0	4.8	741	76.7	0.5	664
South South	40.4	3,015	67.5	4.0	1,121	72.8	1.7	939
South West	31.0	3,829	44.1	10.7	1,542	62.0	3.2	1,074
Sex								
Male	44.9	19,178	64.0	10.9	6,135	78.2	2.2	5,780
Female	41.4	18,291	56.7	10.8	7,193	66.7	0.8	4,532
Residence								
Urban	25.9	11,217	45.8	5.9	4,760	62.2	1.7	3,758
Rural	50.5	26,252	68.0	13.6	8,568	79.5	1.5	6,554
School attendance								
Yes	41.4	28,222	58.0	9.1	10,609	71.6	1.3	6,673
No	48.7	9,248	68.0	17.8	2,720	76.1	2.0	3,638
Mother's education								
None	48.9	12,711	64.9	15.3	4,418	84.1	1.6	2,642
Non-formal	51.9	8,258	62.6	11.4	2,992	82.6	1.9	1,757
Primary	42.9	6,495	66.2	11.3	2,343	72.1	2.2	1,610
Secondary	31.4	7,531	50.4	5.8	2,515	63.8	1.7	1,392
Higher	21.1	2,410	40.8	2.1	972	40.8	0.6	537
Wealth index quintile								
Poorest	58.1	8,671	72.7	16.2	2,790	89.2	0.7	2,030
Second	54.7	8,071	67.9	14.4	2,623	82.0	3.0	1,970
Middle	42.0	7,642	63.2	11.6	2,705	77.2	1.7	2,053
Fourth	30.8	7,017	53.5	7.4	2,706	66.7	0.5	2,314
Richest	22.2	6,069	41.5	4.2	2,504	50.9	2.1	1,945
Ethnicity of household head								
Hausa	46.1	20,649	61.1	13.0	6,893	74.0	1.4	5,360
Igbo	34.1	3,119	58.0	5.6	1,045	67.4	1.8	940
Yoruba	30.1	3,428	47.4	10.3	1,617	65.5	2.6	1,047
Other ethnic group	44.4	10,274	64.2	8.7	3,774	76.2	1.5	2,965

^a Children age 15 or higher at the time of the interview whose mothers were not living in the household

Table CP.2: Children's involvement in economic activities (continued)

Percentage of children by involvement in economic activities during the last week, according to age groups, Nigeria, 2016-17

	Percentage of children age 12-14 years involved in economic activity for at least one hour		Percentage of children age 15-17 years involved in economic activity for 14 hours or more		Percentage of children age 12-14 years involved in economic activity less than 43 hours		Percentage of children age 5-11 years involved in economic activity for 43 hours or more		Number of children age 15-17 years	
	Number	Percentage	Number	Percentage	Number	Percentage	Number	Percentage		
Total	37,469	43.2	37,469	60.1	13,328	10.9	13,328	73.2	10,312	1.6
State										
Abia	295	37.0	295	60.3	111	3.7	111	76.3	87	0.0
Adamawa	987	38.9	987	59.4	326	10.9	326	69.2	245	0.0
Akwa Ibom	640	50.4	640	86.7	236	0.2	236	82.1	220	4.2
Anambra	551	32.6	551	53.2	180	5.7	180	65.7	142	1.4
Bauchi	2,018	51.8	2,018	69.7	595	13.1	595	81.2	489	0.0
Bayelsa	258	32.5	258	68.8	69	6.3	69	72.1	81	0.0
Benue	965	44.2	965	74.2	417	7.2	417	85.2	284	5.1
Borno	2,554	23.7	2,554	41.1	919	5.9	919	63.4	713	0.0
Cross River	662	58.9	662	72.3	227	2.1	227	79.7	174	1.5
Delta	501	30.4	501	64.8	181	6.3	181	83.9	168	0.6
Ebonyi	458	30.9	458	55.5	139	2.1	139	73.5	138	0.0
Edo	389	18.0	389	54.7	157	1.5	157	45.0	123	0.0
Ekiti	190	25.7	190	70.2	67	6.4	67	74.5	45	0.0
Enugu	374	35.2	374	69.5	125	0.0	125	75.1	144	0.0
Gombe	755	55.5	755	62.5	239	15.6	239	85.9	217	2.6
Imo	533	53.5	533	71.5	185	10.0	185	91.6	153	0.7
Jigawa	1,873	54.1	1,873	75.5	652	7.9	652	80.5	366	0.0
Kaduna	2,310	26.9	2,310	57.5	781	10.9	781	62.1	618	0.1
Kano	3,141	45.2	3,141	59.5	1,055	12.2	1,055	71.4	771	0.6
Katsina	2,399	57.9	2,399	58.7	815	20.4	815	75.4	618	6.0
Kebbi	1,175	54.5	1,175	74.7	448	10.0	448	85.5	351	0.4
Kogi	608	39.8	608	71.5	185	7.6	185	65.1	197	1.9
Kwara	449	24.0	449	52.0	256	7.1	256	66.3	137	0.0
Lagos	1,114	12.3	1,114	20.9	454	2.2	454	35.6	338	4.9
Nasarawa	776	49.5	776	61.9	268	18.6	268	81.3	267	7.1
Niger	1,872	64.9	1,872	63.3	570	16.6	570	83.3	488	0.0
Ogun	409	27.8	409	47.3	201	10.6	201	73.9	98	0.8
Ondo	600	41.1	600	42.6	220	12.3	220	78.4	125	0.5
Osun	516	54.5	516	63.9	220	16.5	220	76.9	214	4.0
Oyo	1,000	36.0	1,000	54.7	378	17.4	378	69.6	254	2.9
Plateau	1,285	36.2	1,285	67.3	482	6.4	482	78.0	380	0.0
Rivers	566	35.2	566	54.6	250	8.6	250	63.4	172	1.6
Sokoto	1,164	48.4	1,164	69.3	417	1.7	417	75.9	249	0.6
Taraba	575	44.1	575	63.7	221	8.7	221	80.5	183	2.8

Yobe	34.2	1,443	62.7	14.9	723	70.7	0.0	393
Zamfara	62.2	1,798	49.1	31.0	453	75.9	2.6	567
FCT-Abuja	42.0	266	60.6	8.6	102	59.4	1.7	100

^a Children age 15 or higher at the time of the interview whose mothers were not living in the household

Table CP.3: Children's involvement in household chores

Percentage of children by involvement in household chores during the last week, according to age groups, Nigeria, 2016-17

	Percentage of children age 5-11 years involved in:		Number of children age 5-11 years in: children	Percentage age 12-4 years involved in:		Number of children age 12-14 years	Percentage age 15-7 years involved in:		Number of children age 15-17 years
	Household chores less than 28 hours	Household chores for 28 hours or more		Household chores less than 28 hours	Household chores for 28 hours or more		Household chores less than 43 hours	Household chores for 43 hours or more	
Total	79.8	4.8	37,469	85.5	8.5	13,328	91.0	4.0	10,312
Geopolitical zone									
North Central	79.8	5.5	6,221	86.4	9.5	2,281	91.0	4.8	1,853
North East	78.3	5.5	8,332	79.1	11.6	3,023	89.4	6.5	2,241
North West	78.6	4.3	13,860	83.9	7.9	4,621	89.2	2.1	3,541
South East	83.1	6.0	2,211	89.3	7.6	741	94.3	3.9	664
South South	84.3	3.0	3,015	93.8	4.7	1,121	95.1	4.4	939
South West	82.1	4.6	3,829	93.3	5.9	1,542	94.3	3.2	1,074
Sex									
Male	77.7	4.4	19,178	86.9	7.7	6,135	91.2	4.3	5,780
Female	82.0	5.2	18,291	84.2	9.2	7,193	90.6	3.5	4,532
Residence									
Urban	79.2	3.7	11,217	86.5	5.6	4,760	92.4	2.2	3,758
Rural	80.1	5.2	26,252	84.8	10.1	8,568	90.2	5.0	6,554
School attendance									
Yes	82.1	4.6	28,222	86.0	7.9	10,609	91.9	3.6	6,673
No	72.7	5.3	9,248	83.4	11.0	2,720	89.3	4.7	3,638
Mother's education									
None	77.3	5.7	12,711	82.7	12.1	4,418	90.3	4.4	2,642
Non-formal	81.3	5.1	8,258	88.6	6.2	2,992	95.3	2.3	1,757
Primary	81.5	4.7	6,495	91.7	6.7	2,343	95.4	2.8	1,610

Secondary	81.8	3.9	7,531	80.6	8.9	2,515	85.3	6.8	1,392
Higher	77.8	1.6	2,410	87.3	2.7	972	85.7	3.4	537
Wealth index quintile									
Poorest	79.2	6.3	8,671	82.7	11.7	2,790	92.2	4.1	2,030
Second	78.4	6.3	8,071	88.0	8.9	2,623	90.5	3.9	1,970
Middle	82.9	3.9	7,642	86.1	9.2	2,705	92.8	3.5	2,053
Fourth	81.5	3.7	7,017	81.8	8.3	2,706	89.4	5.0	2,314
Richest	76.8	2.9	6,069	89.2	4.2	2,504	90.1	3.2	1,945
Ethnicity of household head									
Hausa	79.6	4.3	20,649	84.2	9.8	6,893	90.2	3.2	5,360
Igbo	82.4	5.6	3,119	91.4	5.8	1,045	94.9	3.1	940
Yoruba	81.2	4.8	3,428	91.8	6.8	1,617	93.1	3.8	1,047
Other ethnic group	78.9	5.4	10,274	83.4	7.7	3,774	90.3	5.8	2,965

^a Children age 15 or higher at the time of the interview whose mothers were not living in the household

Table CP.3: Children's involvement in household chores (continued)

Percentage of children by involvement in household chores during the last week, according to age groups, Nigeria, 2016-17

	Percentage of children involved in:		Percentage of children age 5-11 years involved in:		Percentage of children age 12-14 years involved in:		Percentage of children age 15-17 years involved in:	
	Household less chores for 28 years than 28 hours more	Household less chores for 28 years or more	Household less chores for 28 years or more	Household less chores for 28 years or more	Household less chores for 28 years or more	Household less chores for 28 years or more	Household less chores for 28 years or more	Household less chores for 28 years or more

Total	79.8	4.8	37,469	85.5	8.5	13,328	91.0	4.0	10,312
State									
Abia	87.3	4.2	295	95.4	3.5	111	88.4	9.6	87
Adamawa	67.4	9.6	987	75.9	17.1	326	85.6	12.0	245
Akwa Ibom	82.0	1.9	640	93.0	5.9	236	96.8	1.7	220
Anambra	82.8	7.5	551	91.0	9.0	180	92.4	7.6	142
Bauchi	78.9	0.4	2,018	90.8	4.2	595	95.2	3.6	489
Bayelsa	80.5	5.1	258	87.8	10.7	69	91.7	6.9	81
Benue	75.7	7.9	965	86.2	9.2	417	84.8	8.9	284
Borno	83.3	3.8	2,554	63.0	16.4	919	90.3	7.7	713
Cross River	93.4	0.6	662	99.6	0.4	227	100.0	0.0	174
Delta	85.0	2.0	501	95.7	3.1	181	98.2	1.8	168
Ebonyi	79.1	6.7	458	86.0	7.5	139	96.9	1.2	138
Edo	83.5	0.0	389	91.2	3.5	157	98.4	1.6	123
Ekiti	82.1	4.9	190	95.2	3.7	67	94.9	2.0	45
Enugu	85.3	1.7	374	92.9	0.5	125	94.5	0.0	144
Gombe	76.4	15.9	755	84.2	12.1	239	80.5	7.6	217
Imo	83.1	7.9	533	83.8	13.7	185	96.9	3.1	153
Jigawa	76.2	4.5	1,873	84.7	6.3	652	86.6	2.4	366
Kaduna	73.7	1.1	2,310	87.5	1.2	781	86.0	0.3	618
Kano	81.5	5.5	3,141	81.6	3.8	1,055	83.5	1.9	771
Katsina	81.5	5.4	2,399	77.5	20.7	815	96.7	0.8	618
Kebbi	72.0	7.8	1,175	86.6	10.7	448	91.9	5.0	351
Kogi	82.4	5.6	608	84.0	10.8	185	90.3	3.9	197
Kwara	63.7	5.9	449	81.3	15.1	256	80.9	6.2	137
Lagos	80.9	2.5	1,114	94.2	3.7	454	95.4	2.0	338
Nasarawa	84.9	6.8	776	85.4	12.1	268	91.7	8.3	267
Niger	86.3	6.0	1,872	88.6	9.7	570	96.7	3.3	488
Ogun	76.6	4.1	409	96.6	3.4	201	93.3	4.0	98
Ondo	85.9	3.1	600	91.4	8.6	220	93.2	6.8	125
Osun	92.1	3.6	516	91.3	7.5	220	96.3	0.6	214
Oyo	78.2	8.4	1,000	92.4	7.6	378	92.0	5.2	254
Plateau	76.2	2.7	1,285	88.5	6.5	482	91.9	1.9	380
Rivers	78.2	8.8	566	91.2	7.9	250	84.2	15.8	172
Sokoto	82.0	0.7	1,164	87.8	5.2	417	91.0	1.9	249
Taraba	80.0	9.8	575	81.8	13.8	221	85.7	7.8	183
Yobe	76.4	5.8	1,443	88.8	8.4	723	89.4	3.2	393
Zamfara	80.3	4.5	1,798	87.1	8.7	453	91.6	3.8	567
FCT-Abuja	72.9	2.3	266	84.2	0.0	102	90.6	2.4	100

^a Children age 15 or higher at the time of the interview whose mothers were not living in the household

Table CP.4: Child labour

Percentage of children age 5-17 years by involvement in economic activities or household chores during the last week, percentage working under hazardous conditions during the last week, and percentage engaged in child labour during the last week, Nigeria, 2016-17

	Children involved in economic		Children involved in household chores for a activities for a					Number of children age 5-17 years
	total number of last week: Children		total number of hours during last week:		working under hazardous conditions			
	Below the specific age	At or above the age specific	Below the specific age threshold	At or above the age specific threshold	At or above the hazardous threshold	Total child labour ¹	Number of children age 5-17 years	
Total	32.8	29.1	82.9	5.5	39.1	50.8	61,109	
Geopolitical zone								
North Central	35.0	31.3	83.3	6.3	49.6	56.8	10,355	
North East	33.3	26.1	80.3	7.1	34.1	47.2	13,596	
North West	33.2	33.8	81.4	4.7	41.9	55.1	22,022	
South East	33.5	24.5	86.4	5.9	36.1	46.6	3,616	
South South	34.2	25.2	88.4	3.6	37.9	48.7	5,075	
South West	25.0	21.5	86.8	4.7	25.4	38.0	6,445	
Sex								
Male	34.2	30.3	82.0	5.1	42.8	54.3	31,093	
Female	31.2	27.9	83.9	5.9	35.1	47.2	30,016	
Residence								
Urban	28.7	16.5	83.5	3.9	24.4	33.4	19,735	
Rural	34.7	35.1	82.7	6.2	46.0	59.1	41,374	
Age (years)								
5-11	12.0	43.2	79.8	4.8	33.2	49.9	37,469	
12-14	60.1	10.9	85.5	8.5	45.7	51.4	13,328	
15-17	73.2	1.6	91.0	4.0	51.6	53.3	10,312	
School attendance								
Yes	31.5	28.0	84.5	5.2	37.5	48.7	45,503	
No	36.6	32.4	78.4	6.2	43.6	56.9	15,606	
Mother's education								
None	34.0	35.0	80.2	6.9	43.5	57.5	19,771	
Non-formal	33.9	35.8	84.9	5.0	45.5	58.5	13,007	
Primary	32.8	29.5	86.0	4.9	42.2	51.7	10,448	
Secondary	26.1	22.2	81.9	5.4	27.5	39.0	11,438	
Higher	20.9	13.6	81.2	2.1	16.1	24.7	3,919	
Cannot be determined ^a	39.0	30.5	85.6	4.8	45.8	57.1	15,381	
Wealth index quintile								
Poorest	37.6	40.8	81.9	7.1	50.3	66.5	13,491	
Second	35.2	38.3	82.3	6.5	49.2	62.9	12,663	
Middle	34.7	28.7	85.2	5.0	42.4	52.7	12,399	
Fourth	31.2	19.7	83.1	5.0	30.7	39.8	12,037	
Richest	23.2	14.2	82.2	3.3	17.9	26.6	10,519	

Ethnicity of household head															
Hausa	33.2	31.9	82.3	5.3	39.0	52.6	32,901	Igbo	29.9	22.3	86.6	5.2	32.1	41.8	5,104
Yoruba							28.7		20.1						6,092
Other ethnic group							34.2		29						17,012

1 MICS indicator 8.2 - Child labour

^a Children age 15 or higher at the time of the interview whose mothers were not living in the household

Table CP.4: Child labour (continued)

Percentage of children age 5-17 years by involvement in economic activities or household chores during the last week, percentage working under hazardous conditions during the last week, and percentage engaged in child labour during the last week, Nigeria, 2016-17

	Children involved in Children							
	involved in economic household chores for a total number of		household chores for a total number of		activities for a total number of		during last week:	
	Children		Children		Children		Children	
	Below the age specific	At or above the age specific	Below the age specific threshold	At or above the age specific threshold	working under hazardous conditions	Total child labour ¹	children age 5-17 years	Number of threshold 5-17 years
Total State	32.8	29.1	82.9	5.5	39.1	50.8	61,109	
Abia	31.1	22.9	89.3	5.0	40.0	47.9	494	
Adamawa	33.9	26.9	72.0	11.6	33.4	49.1	1,558	
Akwa Ibom	42.2	30.3	87.3	2.7	40.8	56.8	1,097	
Anambra	29.3	22.0	86.1	7.8	25.9	37.5	873	
Bauchi	28.2	36.2	83.8	1.6	23.3	48.5	3,102	
Bayelsa	36.9	21.6	84.0	6.4	37.9	45.9	408	
Benue	42.6	28.3	79.9	8.4	48.5	57.5	1,666	
Borno	32.8	15.7	80.0	7.2	29.6	37.4	4,186	
Cross River	29.9	37.3	95.8	0.5	56.0	64.4	1,063	
Delta	38.3	19.4	89.9	2.2	37.0	44.8	849	
Ebonyi	30.3	19.6	83.7	5.8	34.8	41.3	735	
Edo	29.1	10.8	88.0	1.1	21.1	25.2	670	
Ekiti	38.8	17.5	86.9	4.2	26.0	37.1	303	
Enugu	37.1	20.5	88.8	1.1	26.1	37.8	642	
Gombe	35.5	38.1	78.7	13.7	50.3	62.3	1,212	
Imo	39.1	35.0	85.7	8.3	52.5	65.8	871	
Jigawa	35.6	36.9	79.4	4.6	38.1	53.6	2,891	
Kaduna	31.3	19.0	78.7	1.0	39.0	43.5	3,708	
Kano	37.5	31.3	81.8	4.6	44.4	53.6	4,967	
Katsina	29.2	41.6	83.1	7.9	36.6	59.9	3,832	
Kebbi	41.2	34.8	78.8	7.9	62.9	70.8	1,974	
Kogi	39.1	26.2	84.2	6.2	50.6	57.4	990	
Kwara	30.4	15.0	71.9	8.8	22.9	35.2	842	
Lagos	13.6	8.6	86.6	2.7	11.2	16.9	1,906	
Nasarawa	33.1	34.5	86.4	8.2	55.9	62.5	1,311	
Niger	32.7	44.7	88.5	6.3	58.7	64.9	2,930	
Ogun	30.2	19.2	84.6	3.9	21.2	35.1	708	
Ondo	26.1	29.0	88.2	4.9	26.5	45.8	946	
Osun	37.9	34.3	92.8	3.8	52.6	62.2	950	
Oyo	25.5	26.5	83.6	7.7	27.3	45.3	1,632	
Plateau	34.4	23.1	81.8	3.4	48.4	52.7	2,147	
Rivers	28.8	22.6	82.5	9.8	27.2	43.2	988	
Sokoto	32.1	31.2	84.6	1.9	30.1	46.3	1,831	
Taraba	33.1	28.3	81.5	10.3	47.7	57.7	979	
Yobe	38.8	23.5	81.9	6.1	42.3	49.6	2,559	
Zamfara	26.5	45.2	83.7	5.1	45.1	63.0	2,819	
FCT-Abuja	29.7	26.1	79.1	1.8	31.8	44.7	468	

¹ MICS indicator 8.2 - Child labour

^a Children age 15 or higher at the time of the interview whose mothers were not living in the household

Child Discipline

Table CP.5: Child discipline

Percentage of children age 1-14 years by child disciplining methods experienced during the last one month, Nigeria, 2016-17

	Percentage of children age 1-14 years who experienced:						Only non-violent discipline method ¹ , age 1-14 years
	Psychological	Any violent	Physical punishment		Any Severe	Aggression	
			Number of children	discipline			
	14 years						
Total	8.1	76.2	72.0	29.5	84.9		73,066
Geopolitical zone							
North Central	6.5	81.9	79.3	36.1	90.3		12,172
North East	10.1	72.1	69.2	23.7	83.4	16,160	North West 9.8 70.4 64.2 29.0 78.1 26,893
South South	4.0	86.7	83.6	31.0	93.6		5,949
South West	5.0	83.1	78.6	26.4	91.8		7,728
Sex							
Male	7.6	76.7	74.1	31.1	85.8		36,728
Female	8.5	75.7	69.9	27.9	83.9		36,339
Residence							
Urban	7.1	78.6	73.4	29.3	87.4		22,705
Rural	8.5	75.1	71.4	29.6	83.7		50,362
Age (years)							
1-2	10.0	62.2	60.6	18.9	72.7		10,614
3-4	7.3	76.7	74.3	28.4	86.3		11,654
5-9	7.2	79.4	75.6	31.8	88.1		28,069
10-14	8.6	78.5	71.8	32.3	85.8		22,729
Education of household head							
None	9.9	74.7	69.7	28.0	83.0		15,686
Non-formal	8.9	73.1	66.2	30.3	81.2		16,089
Primary	6.9	76.6	75.6	30.1	86.2		13,684
Secondary	6.0	80.0	77.4	31.6	88.8		17,404
Higher	9.1	75.9	70.8	26.2	84.8		10,050
Wealth index quintile							
Poorest	10.3	69.2	64.7	26.3	77.7		16,455
Second	9.4	74.5	69.8	30.2	83.0		15,631
Middle	6.4	78.8	74.9	30.2	88.5		14,688
Fourth	5.9	79.2	77.8	32.6	88.8		13,683
Richest	7.6	81.1	74.7	28.8	88.1		12,610
Ethnicity of household head							
Hausa	9.5	72.5	66.7	27.9	81.1	39,722	Igbo 5.4 82.7 80.9 36.2 91.1 5,914
Yoruba	5.7	82.7	78.8	28.6	91.1		7,230

Other ethnic group	6.9	79.1	77.5	31.1	88.3	20,200
<small>¹ MICS indicator 8.3 - Violent discipline</small>						

Table CP.5: Child discipline (continued)						
Percentage of children age 1-14 years by child disciplining methods experienced during the last one month, Nigeria, 2016-17						
Percentage of children age 1-14 years who experienced:						
Only non-	Physical punishment	violent	Psychological	Any violent	Severe	Number of children
discipline	aggression	Any	discipline method ¹	discipline method ¹	discipline method ¹	age 1-14 years

Total State	8.1	76.2	72.0	29.5	84.9	73,066
Abia	3.0	88.7	84.2	36.1	94.0	582
Adamawa	13.4	57.3	55.3	18.1	64.4	1,785
Akwa Ibom	5.2	78.1	87.4	29.3	93.5	1,341
Anambra	3.5	88.6	85.7	52.8	96.0	1,021
Bauchi	8.8	73.6	69.9	18.4	87.7	3,943
Bayelsa	1.9	94.2	90.1	45.1	98.0	480
Benue	4.9	83.3	85.5	30.7	90.6	1,949
Borno	10.6	67.5	70.0	25.5	83.8	4,920
Cross River	0.8	93.0	89.2	29.1	97.7	1,204
Delta	3.7	84.4	75.2	29.3	90.1	999
Ebonyi	3.0	81.6	81.1	33.3	91.4	797
Edo	6.6	84.9	75.0	39.6	89.3	775
Ekiti	13.3	79.4	61.6	17.0	85.2	357
Enugu	10.7	73.3	79.8	35.1	86.1	725
Gombe	8.9	82.9	78.1	39.0	88.6	1,384
Imo	3.0	87.7	85.7	36.8	94.4	1,039
Jigawa	21.5	56.0	47.4	18.1	67.2	3,794
Kaduna	1.7	92.0	87.4	51.4	95.4	4,405
Kano	11.2	74.1	67.7	26.2	82.5	5,933
Katsina	11.3	72.3	70.4	24.8	83.3	4,789
Kebbi	4.3	61.4	58.7	31.5	69.3	2,356
Kogi	10.1	75.2	79.5	34.3	86.8	1,118
Kwara	13.9	73.8	61.2	28.3	78.2	1,031
Lagos	7.4	80.5	73.1	25.8	87.0	2,437
Nasarawa	3.7	86.2	76.9	21.0	94.0	1,535
Niger	2.9	89.4	82.6	51.2	95.1	3,390
Ogun	5.1	83.7	78.7	21.0	91.4	841
Ondo	2.5	86.4	77.3	28.0	93.4	1,171
Osun	2.4	91.8	87.2	37.3	97.4	1,019
Oyo	3.4	80.3	85.2	24.5	95.2	1,903
Plateau	10.0	76.3	78.5	33.5	88.4	2,607
Rivers	5.4	90.0	83.5	24.6	93.5	1,149
Sokoto	10.3	48.0	36.0	14.9	53.7	2,320
Taraba	3.9	86.3	85.9	32.5	94.0	1,128
Yobe	11.9	76.2	64.8	20.7	82.3	2,999
Zamfara	6.1	71.1	61.3	31.3	75.7	3,295
FCT-Abuja	4.2	74.6	80.5	35.1	87.7	544
¹ MICS indicator 8.3 - Violent discipline						

Table CP.6: Attitudes toward physical punishment

Percentage of respondents to the child discipline module who believe that physical punishment is needed to bring up, raise, or educate a child properly, Nigeria, 2016-17

	Respondent believes that a child needs to be physically disciplined	Number of respondents punished module
Total	62.3	22,410
Geopolitical zone		
North Central	73.1	3,778
North East	60.2	4,250
North West	51.3	6,930
South East	61.0	1,665
South South	76.1	2,394
South West	66.3	3,393
Sex		
Male	62.3	11,105
Female	62.3	11,305
Residence		
Urban	62.9	7,618
Rural	62.0	14,793
Age (Years)		
<25	60.0	2,149
25-39	62.5	9,881
40-59	62.8	7,796
60+	61.8	2,556
Respondent's relationship to selected child		
Mother	62.4	8,498
Father	62.2	9,456
Other	62.2	4,456
Respondent's education		
None	60.5	5,023
Non-formal	52.9	3,954
Primary	67.9	4,116
Secondary	66.4	6,344
Higher	61.5	2,969
Wealth index quintile		
Poorest	55.2	4,306
Second	60.4	4,434
Middle	65.7	4,399
Fourth	66.7	4,480
Richest	63.2	4,791

Ethnicity of household head

Hausa	54.4	10,273	Igbo	62.2	2,371		
Yoruba						67.1	3,197
Other ethnic group						72.4	6,569

Table CP.6: Attitudes toward physical punishment (continued)

Percentage of respondents to the child discipline module who believe that physical punishment is needed to bring up, raise, or educate a child properly, Nigeria, 2016-17

	Respondent believes that a physically	to the child discipline	Number of respondents child needs to be punished	module
Total		62.3		22,410
State				
Abia		79.5		247
Adamawa		67.4		518
Akwa Ibom	73.5 533	Anambra 83.5 393		
Bauchi		60.3		1,068
Bayelsa		74.7		170
Benue		76.1		660
Borno		50.3		1,183
Cross River		78.9		466
Delta		68.9		393
Ebonyi		43.2		308
Edo		77.6		342
Ekiti		73.6		175
Enugu		64.4		299
Gombe		62.3		394
Imo		39.5		418
Jigawa		27.9		897
Kaduna		77.6		1,193
Kano		44.6		1,477
Katsina		64.9		1,266
Kebbi		48.7		633
Kogi		78.7		394
Kwara		65.5		424
Lagos		61.4		1,105
Nasarawa		74.0		461
Niger		80.2		901
Ogun		50.5		356
Ondo		67.3		515
Osun		75.4		423
Oyo		72.8		820
Plateau		68.4		755
Rivers		81.4		491
Sokoto		25.5		631
Taraba		79.7		362
Yobe		60.1		726
Zamfara		51.9		834
FCT-Abuja		49.1		182

Early Marriage and Polygyny

Table CP.7: Early marriage and polygyny (women)

Percentage of women age 15-49 years who first married or entered a marital union before their 15th birthday, percentages of women age 20-49 years who first married or entered a marital union before their 15th and 18th birthdays, percentage of women age 15-19 years currently married or in union, and the percentage of women who are in a polygynous marriage or union, Nigeria, 2016-17

	Women age 15-49 years		Women age 20-49 years		Women age 15-19 years		Women age 15-49 years		
	Percentage	Number of women age 15-49 years	Percentage	Number of women age 20-49 years	Percentage	Number of women age 15-19 years	Percentage of women currently married or in union	Number of women currently married or in union	Percentage of women currently married or in union
	15 ¹	15-49 years	15	18 ²	20-49 years	15-19 years	marriage/union ⁴	married/in union	Number of women currently married or in union
Total	18.5	34,376	20.5	44.1	27,554	22.2	6,822	36.9	24,373
Geopolitical zone									
North Central	12.1	6,006	13.9	39.0	4,822	13.6	1,184	40.2	4,228
North East	23.4	6,584	26.4	56.6	5,242	26.4	1,343	43.6	4,852
North West	32.5	10,932	35.6	67.6	8,607	39.0	2,325	47.5	8,815
South East	4.1	2,445	4.9	13.9	1,922	4.7	523	6.7	1,310
South South	6.4	3,668	7.6	21.5	2,966	4.9	702	11.1	2,064
South West	4.4	4,741	5.1	14.6	3,996	4.1	745	22.1	3,103
Residence									
Urban	10.6	12,373	12.8	29.4	9,804	6.0	2,569	24.6	7,507
Rural	23.0	22,003	24.7	52.3	17,750	31.9	4,253	42.4	16,866
Age (Years)									
15-19	10.6	6,822	na	na	na	22.2	6,822	28.8	1,513
20-24	18.2	5,816	18.2	43.5	5,816	na	na	30.0	3,635
25-29	21.1	5,915	21.1	45.2	5,915	na	na	34.4	4,967
30-34	22.1	5,390	22.1	46.6	5,390	na	na	38.0	4,867
35-39	19.6	4,339	19.6	43.2	4,339	na	na	40.1	3,928
40-44	21.7	3,571	21.7	42.0	3,571	na	na	43.0	3,252
45-49	20.3	2,524	20.3	42.3	2,524	na	na	42.4	2,210
Education									
None	29.9	7,799	30.0	63.3	6,774	56.9	1,024	52.4	6,972
Non-formal	38.1	5,646	39.2	73.3	4,813	56.5	833	49.9	5,039
Primary	21.7	4,963	22.7	50.8	4,255	29.8	708	35.6	4,011
Secondary	5.7	12,466	7.8	22.6	8,378	6.1	4,088	18.6	6,278
Higher	2.8	3,502	2.9	8.7	3,334	0.0	168	11.3	2,072
Wealth index quintile									
Poorest	35.0	6,120	36.7	68.0	5,078	43.8	1,042	50.0	5,282
Second	27.3	6,478	29.4	61.1	5,161	37.1	1,317	45.2	5,195
Middle	17.7	6,708	20.3	47.7	5,183	23.9	1,525	41.0	4,584
Fourth	11.9	7,053	14.1	34.9	5,639	9.8	1,414	28.8	4,411
Richest	5.3	8,017	6.3	17.1	6,493	4.3	1,525	17.5	4,901
Ethnicity of household head									
Hausa	29.8	15,920	32.7	65.3	12,647	35.4	3,274	46.8	12,683
igbo	3.9	3,558	4.6	13.5	2,866	3.9	692	6.9	1,999
Yoruba	4.5	4,380	5.2	15.9	3,627	3.4	752	24.8	2,811
Other ethnic group	12.2	10,518	14	35	8,414	14.3	2,104	32.4	6,880

¹ MICS indicator 8.4 - Marriage before age
15 ² MICS indicator 8.5 - Marriage before age 18 ³
MICS indicator 8.6 - Young women age 15-19 years currently married or in union ⁴
MICS indicator 8.7 - Polygyny

Table CP.7: Early marriage and polygyny (women) Continued

Percentage of women age 15-49 years who first married or entered a marital union before their 15th birthday, percentages of women age 20-49 years who first married or entered a marital union before their 15th and 18th birthdays, percentage of women age 15-19 years currently married or in union, and the percentage of women who are in a polygynous marriage or union, Nigeria, 2016-17

age	Women age 15-49 years		Women age 20-49 years			Women age 15-19 years		Women age 15-49 years		
	Number married age 20-49	Percentage married/in age 15-19 age 15 ¹	Percentage women currently married/in age 15-19 years	Number of women marriage/15	Percentage polygynous 18 ²	Number of in currently married/in years	15-49 years married before age 15- years	Percentage union ⁴ before age 15-	Number of women age of women union	
Total		18.5	34,376	20.5	44.1	27,554	22.2	6,822	36.9	24,373
State										
Abia		2.6	336	3.0	10.6	277	6.0	59	4.5	197
Adamawa		19.5	830	21.0	44.0	668	29.6	162	43.7	612
Akwa Ibom		7.0	834	8.5	24.6	681	4.0	154	7.2	457
Anambra		4.3	608	5.1	14.4	483	4.6	125	3.7	322
Bauchi		25.8	1,559	27.4	64.4	1,244	47.3	315	47.1	1,330
Bayelsa		10.7	260	12.7	39.3	209	8.5	51	24.2	143
Benue		14.4	956	17.5	42.8	758	13.0	198	30.9	
Borno		21.4	1,984	25.9	56.0	1,573	10.1	411	42.1	1,240
Cross River		7.6	693	9.3	24.9	540	5.7	152	15.6	391
Delta		5.5	584	6.3	19.8	472	7.0	112	14.6	354
Ebonyi		5.9	400	6.5	17.0	299	5.7	101	14.6	212
Edo		4.9	494	5.9	14.5	404	3.1	90	9.0	296
Ekiti		2.9	216	3.4	12.7	183	6.2	33	21.1	143
Enugu		4.9	495	6.1	16.4	384	4.7	111	5.8	232
Gombe		27.1	562	29.0	58.4	446	34.2	116	39.7	440
Imo		3.1	606	3.9	11.3	479	3.6	127	6.6	345
Jigawa		28.3	1,313	30.5	74.9	1,044	42.1	269	49.6	1,110
Kaduna		23.0	2,076	25.0	54.4	1,575	29.3	501	38.5	1,475
Kano		30.8	2,389	35.9	69.7	1,829	30.8	560	48.2	1,862
Katsina		39.6	1,950	42.4	70.9	1,600	49.3	351	53.1	1,671
Kebbi		24.8	956	27.5	66.9	756	30.9	199	45.1	764
Kogi		8.3	632	10.2	26.9	481	5.2	151	31.6	357
Kwara		8.8	487	9.3	24.2	410	19.7	78	27.5	357
Lagos		3.5	1,725	4.0	8.3	1,503	2.1	222	13.2	1,097
Nasarawa		12.9	738	15.0	42.8	593	14.2	145	43.5	530
Niger		13.9	1,536	15.5	50.1	1,267	18.4	269	52.8	1,227
Ogun		4.3	474	5.0	19.9	389	7.6	85	24.2	327
Ondo		5.1	646	6.0	19.2	529	4.2	117	23.5	404
Osun		6.0	638	7.0	21.1	503	6.0	136	32.0	382
Oyo		4.8	1,042	5.6	17.2	889	3.0	153	28.6	751
Plateau		12.1	1,317	13.8	36.4	1,047	13.6	270	39.2	894
Rivers		4.7	803	5.6	15.6	661	3.1	143	5.1	423
Sokoto		40.4	912	43.4	68.6	737	54.9	175	34.1	784
Taraba		16.3	558	19.1	43.3	443	11.8	115	30.5	364
Yobe		28.5	1,091	32.3	62.0	867	28.3	224	47.6	866
Zamfara		44.0	1,337	45.6	71.4	1,067	53.5	270	58.1	1,149
FCT-Abuja		6.6	340	7.7	22.4	266	7.4	74	27.3	213

1 MICS indicator 8.4 - Marriage before age
 15 2 MICS indicator 8.5 - Marriage before age 18 3
 MICS indicator 8.6 - Young women age 15-19 years currently married or in union 4
 MICS indicator 8.7 - Polygyny

Table CP.7M: Early marriage and polygyny (men)

Percentage of men age 15-49 years who first married or entered a marital union before their 15th birthday, percentages of men age 20-49 years who first married or entered a marital union before their 15th and 18th birthdays, percentage of men age 15-19 years currently married or in union, and the percentage of men who are in a polygynous marriage or union, Nigeria, 2016-17

	Men age 15-49 years		Men age 20-49 years			Men age 15-19 years		Men age 15-49 years	
	Percentage married before age 15 ¹	Number of men age 15-49 years	Percentage married before age 15	Percentage married before age 18 ²	Number of men age 20-49 years	Percentage currently married/in union ³	Number of men age 15-19 years	Percentage in polygynous marriage/union ⁴	Number of men age 15-49 years currently married/in union
Total	2.2	15,183	2.8	6.0	11,675	0.0	3,508	18.7	7,213
Geopolitical zone									
North Central	1.8	2,730	2.2	6.2	2,064	0.0	666	21.8	1,257
North East	4.0	2,943	5.2	9.1	2,220	0.0	723	20.1	1,392
North West	2.3	4,674	2.9	6.8	3,547	0.0	1,127	25.4	2,360
South East	1.0	984	1.3	3.1	754	0.0	230	2.5	400
South South	1.7	1,664	2.1	4.5	1,307	0.0	356	7.4	737
South West	1.0	2,189	1.3	2.7	1,784	0.0	406	12.4	1,066
Residence									
Urban	1.6	5,627	2.0	3.8	4,396	0.0	1,231	12.0	2,378
Rural	2.6	9,556	3.2	7.3	7,279	0.0	2,277	22.0	4,835
Age (Years)									
15-19	0.3	3,508	na	na	na	0.0	3,508	*	*
20-24	0.7	2,378	0.7	3.0	2,378	na	na	1.8	232
25-29	2.4	2,191	2.4	4.7	2,191	na	na	6.3	892
30-34	4.5	2,078	4.5	8.1	2,078	na	na	11.1	1,486
35-39	3.9	1,936	3.9	7.9	1,936	na	na	18.6	1,673
40-44	3.7	1,724	3.7	7.8	1,724	na	na	26.1	1,597
45-49	1.6	1,368	1.6	5.3	1,368	na	na	30.1	1,313
Education									
None	3.7	1,563	4.3	10.2	1,228	0.0	335	24.6	970
Non-formal	4.7	2,140	6.0	11.7	1,693	0.0	447	28.1	1,334
Primary	3.2	1,997	3.9	8.8	1,623	0.0	375	22.5	1,241
Secondary	1.2	6,861	1.7	4.0	4,592	0.0	2,269	13.3	2,400
Higher	1.1	2,622	1.1	2.1	2,539	0.0	83	10.8	1,269
Wealth index quintile									
Poorest	3.6	2,614	4.6	10.8	1,911	0.0	703	25.0	1,368
Second	3.1	2,901	4.1	7.9	2,209	0.0	691	26.2	1,534
Middle	1.8	2,927	2.2	5.6	2,209	0.0	718	21.0	1,299
Fourth	1.9	3,202	2.4	5.3	2,496	0.0	706	13.3	1,380
Richest	1.1	3,539	1.3	2.3	2,849	0.0	690	9.2	1,631

Total State	2.2	15,183	2.8	6.0	11,675	0.0	3,508	18.7	7,213
Abia	0.5	142	0.6	1.3	110	0.0	32	0.8	56
Adamawa	2.7	389	3.6	7.9	293	0.0	95	13.6	181
Akwa Ibom	0.8	365	1.0	4.6	288	0.0	77	5.2	150
Anambra	2.8	241	3.6	5.5	183	0.0	58	1.0	103
Bauchi	0.7	681	1.0	3.0	505	0.0	176	29.6	378
Bayelsa	1.3	121	1.6	5.7	96	0.0	25	19.7	62
Benue	1.1	481	1.4	5.8	375	0.0	106	3.3	174
Borno	3.2	813	4.2	9.0	619	0.0	194	8.9	345
Cross River	2.1	275	2.8	5.3	208	0.0	67	11.7	137
Delta	0.8	258	1.0	2.3	200	0.0	58	2.6	121
Ebonyi	1.1	152	1.5	2.5	115	0.0	37	6.2	69
Edo	2.1	209	2.6	4.9	165	0.0	43	3.2	104
Ekiti	1.9	96	2.5	3.9	72	0.0	24	13.2	48
Enugu	0.0	190	0.0	2.6	146	0.0	44	2.1	67
Gombe	6.5	268	8.3	13.0	193	0.0	74	23.2	126
Imo	0.2	260	0.3	2.7	200	0.0	60	2.6	105
Jigawa	3.8	534	5.1	11.9	404	0.0	131	16.0	294
Kaduna	2.6	898	2.9	7.4	676	0.0	223	18.8	415
Kano	1.9	1,028	2.5	4.1	757	0.0	271	34.7	444
Katsina	0.7	816	0.8	4.2	677	0.0	139	30.4	486
Kebbi	1.4	426	2.0	8.9	305	0.0	121	11.3	198
Kogi	1.8	275	1.8	3.9	199	0.0	76	21.3	102
Kwara	2.0	232	2.7	6.0	173	0.0	59	8.9	115
Lagos	1.3	808	1.6	2.7	683	0.0	125	8.4	426
Nasarawa	2.7	352	3.6	9.3	268	0.0	85	22.9	183
Niger	2.8	645	3.4	8.2	500	0.0	144	35.2	360
Ogun	0.6	206	0.8	2.3	156	0.0	49	9.5	106
Ondo	0.5	293	0.6	2.5	240	0.0	53	17.7	133
Osun	0.5	296	0.6	2.6	235	0.0	62	21.8	112
Oyo	1.2	490	1.5	2.8	398	0.0	93	13.0	242
Plateau	0.2	606	0.3	2.6	442	0.0	164	20.7	246
Rivers	2.5	436	3.2	4.6	351	0.0	86	7.6	165
Sokoto	1.5	358	2.0	4.2	272	0.0	86	24.8	197
Taraba	2.3	256	2.8	6.3	207	0.0	49	23.1	128
Yobe	9.7	537	12.7	17.2	403	0.0	134	22.9	233
Zamfara	4.6	613	6.2	10.4	456	0.0	157	31.1	327
FCT-Abuja	3.9	139	3.8	8.9	107	0.0	32	21.7	76
¹ MICS indicator 8.4 - Marriage before age 15 ² [M]									
³ MICS indicator 8.5 - Marriage before age 18 [M]									
⁴ MICS indicator 8.6 - Young men age 15-19 years currently married or in union [M]									
MICS indicator 8.7 - Polygyny									

Table CP.8: Trends in early marriage (women)

Percentage of women who were first married or entered into a marital union before age 15 and 18, by area and age groups, Nigeria, 2016-17

Urban	Rural	All
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	Number		Number		Number		Number		Number			
	Percentage of women married before age 15	Percentage of women married age 15-49	Percentage of women married before age 18	Percentage of women married age 18-49	Percentage of women married before age 15	Percentage of women married age 15-49	Percentage of women married before age 18	Percentage of women married age 18-49	Percentage of women married before age 15	Percentage of women married age 15-49		
Total	10.6	12,373	29.4	9,804	23.0	22,003	52.3	17,750	18.5	34,376	44.1	27,554
Age (years)												
15-19	2.0	2,569	na	na	15.9	4,253	na	na	10.6	6,822	na	na
20-24	9.8	2,062	24.0	2,062	22.7	3,754	54.3	3,754	18.2	5,816	43.5	5,816
25-29	11.5	2,051	29.8	2,051	26.3	3,864	53.4	3,864	21.1	5,915	45.2	5,915
30-34	12.6	1,963	29.4	1,963	27.5	3,427	56.4	3,427	22.1	5,390	46.6	5,390
35-39	13.8	1,569	27.5	1,569	22.9	2,770	52.1	2,770	19.6	4,339	43.2	4,339
40-44	15.6	1,286	32.7	1,286	25.2	2,285	47.2	2,285	21.7	3,571	42.0	3,571
45-49	18.0	874	39.7	874	21.5	1,651	43.7	1,651	20.3	2,524	42.3	2,524
na: not applicable												

Table CP.8M: Trends in early marriage (men)

Percentage of men who were first married or entered into a marital union before age 15 and 18, by area and age groups, Nigeria, 2016-17													
	Urban				Rural				All				
	Percentage of men married before age 15	Number of men age 15-49	Percentage of men married before age 18	Number of men age 18-49	Percentage of men married before age 15	Number of men age 15-49	Percentage of men married before age 18	Number of men age 18-49	Percentage of men married before age 15	Percentage of men married age 15-49	Number of men married before age 18	Number of men married age 18-49	Percentage of men age 20-49
Total	1.6	5,627	3.8	4,396	2.6	9,556	7.3	7,279	2.2	15,183	6.0	11,675	
Age (years)													
15-19	0.3	1,231	na	na	0.3	2,277	na	na	0.3	3,508	na	na	0.5
20-24	0.5	896	0.9	896	0.8	1,482	4.2	1,482	0.7	2,378	3.0	2,378	
25-29	1.2	806	2.1	806	3.1	1,384	6.2	1,384	2.4	2,191	4.7	2,191	
30-34	3.5	802	5.9	802	5.1	1,276	9.5	1,276	4.5	2,078	8.1	2,078	
35-39	2.5	743	5.0	743	4.8	1,193	9.7	1,193	3.9	1,936	7.9	1,936	
40-44	3.0	670	5.6	670	4.2	1,054	9.2	1,054	3.7	1,724	7.8	1,724	
45-49	1.4	478	4.1	478	1.8	890	5.9	890	1.6	1,368	5.3	1,368	
na: not applicable													

Table CP.9: Spousal age difference

Percent distribution of women currently married/in union age 15-19 and 20-24 years according to the age difference with their husband or partner, Nigeria, 2016-17

	Percentage of currently married/in union of Percentage of currently married/in union partner is:										Number women age 15-19 years whose husband or age 20-24 years whose husband or partner is:										Number of women age 20-24 years								
	Husband/ currently married/ in					Partner's currently married/ in					Husband/ currently married/ in					Partner's currently married/ in													
	Younger	older	older	older	older ¹	unknown	Total	in union	Younger	older	older	older	older ²	unknown	Total	in union													
Total	2.4	11.8	32.8	47.6		5.5	100.0	1,513	2.4	14.5	33.3	45.2		4.7	100.0	3,635													
Geopolitical zone																													
North Central	1.0	18.3	34.2	41.0	5.5	100.0	161	1.4	17.3	34.8	42.2	4.3	100.0	638	North East	1.7	14.5	36.9	43.3	3.6	100.0	355	3.1	13.4	36.6	43.1	3.7	100.0	872
North West		3.0	8.3	30.6	51.8		6.2	100.0	907	3.0	7.5	30.8	53.0		5.7	100.0	1,530												
South East	3.3	18.1	19.2	49.7	9.7	100.0	25	1.1	18.4	34.3	40.8	5.5	100.0	112	South South	0.0	22.7	38.8	34.8	3.7	100.0	34	1.4	33.9	35.2	28.3	1.3	100.0	222
South West		0.0	31.9	47.1	17.8		3.2	100.0	31	0.8	33.3	30.7	29.7		5.4	100.0	260												
Residence																													
Urban	3.6	7.8	41.6	44.0		3.0	100.0	154	1.9	15.0	35.3	43.9		3.9	100.0	873													
Rural	2.2	12.2	31.8	48.0		5.8	100.0	1,359	2.6	14.3	32.6	45.5		5.0	100.0	2,762													
Age (Years)																													
15-19	2.4	11.8	32.8	47.6		5.5	100.0	1,513	na	na	na	na		na	na	na													
20-24	na	na	na	na		na	na	na	2.4	14.5	33.3	45.2		4.7	100.0	3,635													
Education																													
None	4.1	13.4	28.5	47.4		6.6	100.0	583	3.4	12.5	30.6	47.3		6.2	100.0	1,088													
Non-formal	0.3	9.0	30.7	53.9	6.2	100.0	471	2.1	9.7	31.9	50.7	5.6	100.0	826	Primary	2.4	13.6	38.2	42.3	3.6	100.0	211	3.2	12.3	35.3	44.0	5.2	100.0	497
Secondary	2.2	11.6	42.4	40.6		3.2	100.0	248	1.6	21.0	34.8	39.8		2.9	100.0	1,095													
Higher	0.0	0.0	0.0	0.0		0.0	0.0	-	0.3	14.4	43.7	41.6		0.0	100.0	129													
Wealth index quintile																													
Poorest	1.7	15.0	33.4	45.1	4.8	100.0	457	2.0	13.4	31.1	46.7	6.8	100.0	827	Second	3.6	10.6	31.4	46.6	7.8	100.0	488	3.6	12.3	32.4	46.3	5.3	100.0	961
Middle	1.2	8.6	32.5	53.8	3.9	100.0	364	2.2	13.7	33.5	47.2	3.3	100.0	767	Fourth	4.5	13.3	35.9	40.4	6.0	100.0	139	3.0	19.8	35.7	38.1	3.5	100.0	631
Richest	0.0	13.0	34.0	53.1		0.0	100.0	65	0.2	14.8	35.2	46.1		3.6	100.0	449													
Ethnicity of household head																													
Hausa	2.7	10.8	31.7	49.6		5.2	100.0	1,160	2.5	9.7	33.2	49.6		5.0	100.0	2,294													
Igbo	3.0	16.5	19.2	52.4	8.8	100.0	27	3.8	19.9	27.7	44.8	3.8	100.0	175	Yoruba	0.0	28.0	59.5	8.6	3.9	100.0	26	0.6	34.1	33.4	27.7	4.2	100.0	228
Other ethnic group	1.2	13.6	36.1	42.8		6.3	100	300	2.5	20.4	34.4	38.5		4.2	100	939													

¹ MICS indicator 8.8a - Spousal age difference (among women age 15-19) ²
MICS indicator 8.8b - Spousal age difference (among women age 20-24)

na: not applicable

(*) Sample data are fewer than 25 unweighted cases

Female Genital Mutilation/Cutting

Table CP.10: Female genital mutilation/cutting (FGM/C) among women								
Percentage of women age 15-49 years by FGM/C status and percent distribution of women who had FGM/C by type of FGM/C, Nigeria, 2016-17								
age	Percentage of Number of women who		Percent distribution of women age 15-49 years who had FGM/C:				Number of women	
	had any form of FGM/C ¹	age 15-49 years	Had flesh removed	Were nicked	Were closed	Were sewn not determined		Form of FGM/C Total
Total	18.4	34,376	61.8	3.4	4.9	29.8	100.0	6,312
Geopolitical zone								
North Central	8.6	6,006	65.5	5.1	6.2	23.3	100.0	517
North East	1.4	6,584	71.8	0.0	28.2	0.0	100.0	89
North West	19.3	10,932	72.5	5.1	2.0	20.5	100.0	2,112
South East	32.5	2,445	50.1	2.3	9.9	37.7	100.0	795
South South	23.3	3,668	67.1	2.8	12.2	17.8	100.0	853
South West	41.1	4,741	51.3	2.0	1.5	45.2	100.0	1,947
Residence								
Urban	23.4	12,373	57.9	2.0	3.3	36.8	100.0	2,890
Rural	15.6	22,003	65.1	4.6	6.3	24.0	100.0	3,422
Age (years)								
15-19	12.3	6,822	64.7	2.7	4.3	28.3	100.0	842
20-24	15.4	5,816	64.1	3.9	4.8	27.2	100.0	896
25-29	16.9	5,915	60.7	3.9	4.7	30.6	100.0	1,000
30-34	20.1	5,390	59.3	3.9	4.8	32.0	100.0	1,084
35-39	21.3	4,339	61.0	2.8	5.5	30.7	100.0	924
40-44	24.4	3,571	61.2	2.9	6.1	29.9	100.0	871
45-49	27.6	2,524	62.9	3.6	4.2	29.3	100.0	696
Education								
None	11.6	7,799	70.4	6.0	3.8	19.8	100.0	906
Non-formal	16.5	5,646	74.1	3.7	3.0	19.2	100.0	933
Primary	24.3	4,963	63.7	2.8	6.7	26.9	100.0	1,208
Secondary	20.2	12,466	56.5	2.7	5.4	35.4	100.0	2,512
Higher	21.5	3,502	51.0	3.5	4.2	41.4	100.0	753
Wealth index quintile								
Poorest	9.9	6,120	73.3	3.7	3.9	19.1	100.0	608
Second	14.6	6,478	66.8	5.5	4.5	23.2	100.0	945
Middle	19.0	6,708	67.2	3.9	5.6	23.4	100.0	1,275
Fourth	22.9	7,053	57.2	3.0	5.9	33.9	100.0	1,618
Richest	23.3	8,017	55.9	2.3	4.2	37.6	100.0	1,865
Ethnicity of household head								

Hausa	13.9	15,920	73.3	4.8	3.4	18.5	100.0	2,218
Igbo	29.2	3,558	50.4	2.1	9.6	38.0	100.0	1,040
Yoruba	45.4	4,380	50.0	2.9	1.8	45.2	100.0	1,989
Other ethnic group	8.3	4,608	84	3.5	6.5	5.9	100	380

¹ MICS indicator 8.10 - Prevalence of FGM/C among women

Table CP.10: Female genital mutilation/cutting (FGM/C) among women (continued)

Percentage of women age 15-49 years by FGM/C status and percent distribution of women who had FGM/C by type of FGM/C, Nigeria, 2016-17

age	Percentage of Number of women who		Percent distribution of women age 15-49 years who					Total	Number of women age 15-49 years who had FGM/C
	had any form of FGM/C ¹	years	Had flesh removed	Were nicked	Were closed	Were sewn not determined	Form of FGM/C		

Total State	18.4	34,376	61.8	3.4	4.9	29.8	100.0	6,312
Abia	31.1	336	43.4	6.5	13.8	36.3	100.0	104
Adamawa	0.0	830	0.0	0.0	0.0	0.0	100.0	0
Akwa Ibom	10.5	834	64.2	1.2	28.5	6.1	100.0	87
Anambra	17.1	608	68.9	0.0	2.3	28.7	100.0	104
Bauchi	0.0	1559	(*)	(*)	(*)	(*)	100.0	1
Bayelsa	28.0	260	73.0	13.2	2.1	11.7	100.0	73
Benue	4.1	956	(86.6)	(2.9)	(5.1)	(5.3)	100.0	39
Borno	4.2	1984	(69.7)	(0.0)	(30.3)	(0.0)	100.0	83
Cross River	25.4	693	82.5	2.8	11.7	2.9	100.0	176
Delta	36.4	584	57.9	2.3	18.0	21.8	100.0	213
Ebonyi	43.2	400	54.1	2.5	20.0	23.3	100.0	173
Edo	37.1	494	79.0	1.7	2.7	16.7	100.0	183
Ekiti	62.6	216	47.0	5.0	0.2	47.7	100.0	135
Enugu	20.3	495	8.4	2.5	9.6	79.4	100.0	101
Gombe	0.0	562	0.0	0.0	0.0	0.0	100.0	0
Imo	51.6	606	57.2	1.4	5.7	35.7	100.0	313
Jigawa	14.4	1313	38.1	3.1	15.1	43.7	100.0	188
Kaduna	39.3	2076	85.0	0.5	0.3	14.2	100.0	815
Kano	30.9	2389	55.6	13.2	0.8	30.4	100.0	739
Katsina	0.6	1950	(*)	(*)	(*)	(*)	100.0	12
Kebbi	0.1	956	(*)	(*)	(*)	(*)	100.0	1
Kogi	1.4	632	(*)	(*)	(*)	(*)	100.0	9
Kwara	55.1	487	51.0	8.0	1.1	39.9	100.0	269
Lagos	25.0	1725	60.5	0.9	1.0	37.5	100.0	431
Nasarawa	14.5	738	83.1	0.8	14.6	1.6	100.0	107
Niger	0.6	1536	(*)	(*)	(*)	(*)	100.0	9
Ogun	18.8	474	67.2	1.6	4.0	27.2	100.0	89
Ondo	44.2	646	23.9	3.1	2.3	70.7	100.0	285
Osun	67.8	638	75.1	2.5	2.2	20.2	100.0	432
Oyo	55.0	1042	38.7	1.3	0.7	59.3	100.0	574
Plateau	4.5	1317	(83.9)	(0.0)	(11.0)	(5.1)	100.0	59
Rivers	15.1	803	41.7	0.6	11.5	46.2	100.0	121
Sokoto	0.5	912	(*)	(*)	(*)	(*)	100.0	5
Taraba	1.0	558	(*)	(*)	(*)	(*)	100.0	6
Yobe	0.0	1091	0.0	0.0	0.0	0.0	100.0	0
Zamfara	26.4	1337	96.0	0.0	1.3	2.7	100.0	352
FCT-Abuja	7.2	340.0	83.0	9.1	0.0	7.9	100.0	25
¹ MICS indicator 8.10 - Prevalence of FGM/C among women								

() Sample data are based on 25-49 unweighted cases

(*) Sample data are fewer than 25 unweighted cases

Table CP.11: Female genital mutilation/cutting (FGM/C) among girls

Percentage of daughters age 0-14 years by FGM/C status and percent distribution of daughters who had FGM/C by type of FGM/C, Nigeria, 2016-17

14	Percentage of daughters who had any form of FGM/C ¹	Number of daughters age 0-14 years	Percent distribution of daughters age 0-14 years who had FGM/C:				Total	Number of daughters age 0-14 years who had FGM/C
			Had flesh removed	Were nicked	Were sewn closed	Form of FGM/C not determined		
Total	25.3	17,529	76.6	7.5	5.3	10.6	100.0	4,443
Geopolitical zone								
North Central	16.1	2,323	87.1	2.6	7.6	2.6	100.0	373
North East	1.4	2,761	85.8	0.0	7.2	7.0	100.0	39
North West	56.0	5,329	75.8	8.1	5.3	10.7	100.0	2,982
South East	12.7	1,476	65.3	12.1	7.8	14.8	100.0	187
South South	6.1	2,311	75.9	2.1	11.8	10.2	100.0	141
South West	21.6	3,329	76.9	7.9	1.7	13.5	100.0	720
Residence							100.0	
Urban	20.5	7,254	79.6	5.6	6.0	8.8	100.0	1,487
Rural	28.8	10,276	75.1	8.5	4.9	11.6	100.0	2,956
Age (years)							100.0	
0-4	26.6	7,265	78.8	6.1	5.3	9.9	100.0	1,936
5-9	23.9	5,709	73.7	9.0	5.4	11.9	100.0	1,363
10-14	25.1	4,556	76.2	8.3	5.1	10.5	100.0	1,144
Mother's Education							100.0	
None	31.9	3,665	69.5	9.2	2.5	18.7	100.0	1,170
Non-formal	44.2	3,002	83.9	5.9	5.5	4.6	100.0	1,327
Primary	23.6	3,378	78.4	8.8	4.4	8.3	100.0	797
Secondary	17.2	5,576	74.8	7.1	7.3	10.7	100.0	961
Higher	9.8	1,909	69.4	5.4	13.3	12.0	100.0	188
Mother's FGM/C experience							100.0	
No FGM/C	7.3	10,739	46.4	11.7	7.0	35.0	100.0	781
Had FGM/C	53.9	6,791	83.0	6.7	4.9	5.4	100.0	3,662
Wealth index quintile							100.0	
Poorest	43.0	2,209	68.2	7.9	5.8	18.1	100.0	949
Second	37.7	2,633	78.1	10.3	3.0	8.6	100.0	992
Middle	25.7	3,737	83.4	5.4	4.7	6.5	100.0	960
Fourth	20.1	4,414	74.4	8.3	7.1	10.1	100.0	886
Richest	14.4	4,537	79.1	4.9	6.2	9.7	100.0	656
Ethnicity of household head							100.0	
Hausa	38.6	7,785	76.0	7.8	5.5	10.6	100.0	3,004
Igbo	11.3	2,153	65.0	11.6	10.6	12.8	100.0	242

Yoruba	27.3	2,984	78.5	7.3	2.2	12.1	100.0	816
Other ethnic group	8.3	4,608	84	3.5	6.5	5.9	100	380

1 MICS indicator 8.11 - Prevalence of FGM/C among girls

Table CP.11: Female genital mutilation/cutting (FGM/C) among girls (continued)

Percentage of daughters age 0-14 years by FGM/C status and percent distribution of daughters who had FGM/C by type of FGM/C, Nigeria, 2016-17

14	Percentage of daughters who had any form of FGM/C ¹	Number of daughters age 0-14 years	Percent distribution of daughters age 0-14 years who had FGM/C:				Form of FGM/C not determined	Total	Number of daughters age 0-14 years who had FGM/C
			Had flesh removed	Were nicked	Were sewn closed	Total			

Total State	25.3	17,529	76.6	7.5	5.3	10.6	100.0	4443
Abia	15.5	229	39.3	17.4	15.2	28.2	100.0	36
Adamawa	0.9	266	(*)	(*)	(*)	(*)	100.0	2
Akwa Ibom	2.4	518	(*)	(*)	(*)	(*)	100.0	12
Anambra	7.4	278	(61.9)	(5.7)	(19.0)	(13.3)	100.0	21
Bauchi	0.3	484	(*)	(*)	(*)	(*)	100.0	1
Bayelsa	1.6	216	(*)	(*)	(*)	(*)	100.0	4
Benue	1.5	531	(*)	(*)	(*)	(*)	100.0	8
Borno	1.8	1,545	(*)	(*)	(*)	(*)	100.0	28
Cross River	3.4	456	(96.1)	0.0	(3.9)	(0.0)	100.0	16
Delta	6.2	404	(55.2)	(4.3)	(40.5)	(0.0)	100.0	925
Ebonyi	5.2	276	(71.7)	(0.0)	(0.0)	(28.3)	100.0	14
Edo	19.9	311	81.9	2.3	3.8	11.9	100.0	62
Ekiti	41.7	153	75.5	11.4	(0.0)	13.1	100.0	64
Enugu	7.4	253	(*)	(*)	(*)	(*)	100.0	19
Gombe	1.0	63	(*)	(*)	(*)	(*)	100.0	1
Imo	22.2	441	80.8	15.0	1.7	2.4	100.0	98
Jigawa	66.9	859	34.2	1.9	23.8	40.1	100.0	575
Kaduna	63.1	1,459	95.7	1.2	0.7	2.5	100.0	920
Kano	71.0	1,422	71.8	21.4	0.8	6.0	100.0	1009
Katsina	4.9	467	(*)	(*)	(*)	(*)	100.0	23
Kebbi	1.4	100	(*)	(*)	(*)	(*)	100.0	1
Kogi	11.7	69	(*)	(*)	(*)	(*)	100.0	8
Kwara	40.7	367	88.9	5.9	2.4	2.8	100.0	149
Lagos	10.5	1,099	91.8	0.0	0.5	7.7	100.0	116
Nasarawa	18.6	535	87.2	1.1	8.6	3.1	100.0	100
Niger	2.3	387	(*)	(*)	(*)	(*)	100.0	9
Ogun	3.9	297	(*)	(*)	(*)	(*)	100.0	12
Ondo	24.9	447	59.5	10.3	2.8	27.5	100.0	111
Osun	34.6	469	93.9	1.6	4.0	0.6	100.0	162
Oyo	29.6	864	67.2	13.2	0.9	18.8	100.0	255
Plateau	29.3	301	(92.0)	(0.0)	(7.4)	(0.7)	100.0	88
Rivers	5.7	406	(*)	(*)	(*)	(*)	100.0	23
Sokoto	1.5	249	(*)	(*)	(*)	(*)	100.0	4
Taraba	7.5	90	(*)	(*)	(*)	(*)	100.0	7
Yobe	0.0	315	0.0	0.0	0.0	0.0	100.0	0
Zamfara	58.2	774	95.5	1.2	1.8	1.5	100.0	450
FCT-Abuja	8.2	133	(*)	(*)	(*)	(*)	100.0	11

¹ MICS indicator 8.11 - Prevalence of FGM/C among girls

() Sample data are based on 25-49 unweighted cases
 (*) Sample data are fewer than 25 unweighted cases

Table CP.12: Approval of female genital mutilation/cutting (FGM/C)

Percentage of women age 15-49 years who have heard of FGM/C, and percent distribution of women according to attitudes towards whether the practice of FGM/C should be continued, Nigeria, 2016-17

Percentage of women who have heard of FGM/C	Number of women age 15-49 years	Percent distribution of women who believe the practice of FGM/C should be:				Total	Number of women age 15-49 years who have heard of FGM/C
		Continued ¹	Discontinued	Depends	Missing /Don't know		

Total		52.1	34,376	21.6	67.5	7.6	3.3	100	17,925	
Geopolitical zone										
North Central		40.6	6,006	16.4	72.9	6.9	3.7	100	2,440	
North East		33.1	6,584	6.7	78.7	13.3	1.3	100	2,180	
North West		40.5	10,932	40.0	46.0	10.1	3.9	100	4,426	
South East		75.5	2,445	17.0	78.3	1.7	3.0	100	1,847	
South South	81.2	3,668	11.6	82.7	3.7	1.9	100	2,979	South West	85.5
		4,741	22.1	65.4	7.7	4.7	100	4,053		
Residence										
Urban		67.4	12,373	19.9	68.8	7.6	3.7	100	8,343	
Rural		43.5	22,003	23.1	66.3	7.6	3.0	100	9,582	
Age (Years)										
15-19		43.0	6,822	20.9	68.2	7.3	3.6	100	2,933	
20-24		50.0	5,816	22.6	65.2	8.8	3.4	100	2,909	
25-29		52.2	5,915	22.7	65.5	8.2	3.6	100	3,090	
30-34		56.7	5,390	20.2	68.2	8.3	3.3	100	3,056	
35-39		55.4	4,339	21.1	68.6	6.9	3.4	100	2,404	
40-44		57.7	3,571	21.0	70.8	5.5	2.7	100	2,059	
45-49		58.4	2,524	23.4	66.6	7.0	3.0	100	1,474	
Education										
None		33.9	7,799	27.8	58.3	9.6	4.3	100	2,644	
Non-formal		36.5	5,646	38.4	47.4	12.1	2.1	100	2,058	
Primary		54.5	4,963	22.9	65.1	8.7	3.4	100	2,707	
Secondary		61.8	12,466	18.3	72.2	6.1	3.5	100	7,700	
Higher		80.4	3,502	11.5	80.1	5.5	2.8	100	2,816	
FGM/C experience										
No FGM/C		41.4	28,064	7.3	81.5	7.5	3.8	100	11,613	
Had FGM/C		100.0	6,312	48.0	41.8	7.7	2.5	100	6,312	
Wealth index quintile										
Poorest		26.8	6,120	31.2	55.3	9.2	4.3	100	1,642	
Second		36.1	6,478	29.5	58.7	8.3	3.4	100	2,336	
Middle		50.5	6,708	23.0	63.9	10.3	2.7	100	3,386	
Fourth		64.7	7,053	21.9	68.9	6.2	3.0	100	4,566	
Richest		74.8	8,017	14.9	75.1	6.4	3.6	100	5,995	
Ethnicity of household head										
Hausa		39.3	15,920	30.7	55.8	10.5	3.1	100	6,252	
Igbo		76.2	3,558	15.1	78.0	3.6	3.2	100	2,711	
Yoruba		84.9	4,380	26.8	61.3	7.6	4.3	100	3,719	
Other ethnic group		49.8	10,518	10.5	80.4	6.1	3.0	100	5,242	

1 MICS indicator 8.9 - Approval for
FGM/C

Table CP.12: Approval of female genital mutilation/cutting (FGM/C) continued.

Percentage of women age 15-49 years who have heard of FGM/C, and percent distribution of women according to attitudes towards whether the practice of FGM/C should be continued, Nigeria, 2016-17

	Percentage of women		Percent distribution of women who believe the practice of FGM/C should be:					Number of women age 15-49 years who have heard of FGM/C
	who have heard of FGM/C	Number of women age 15-49 years	Continued ¹	Discontinued	Depends	Missing /Don't know	Total	
Total	52.1	34,376	21.6	67.5	7.6	3.3	100.0	17,925
State								
Abia	77.0	336	22.4	73.3	1.1	3.2	100.0	258
Adamawa	29.1	830	6.6	74.6	13.0	5.8	100.0	242
Akwa Ibom	77.4	834	4.2	91.8	1.7	2.2	100.0	646
Anambra	58.5	608	12.9	80.8	0.9	5.3	100.0	355
Bauchi	27.0	1,559	0.8	94.7	3.9	0.6	100.0	421
Bayelsa	88.4	260	3.1	89.0	7.3	0.5	100.0	230
Benue	58.8	956	6.8	90.7	1.0	1.5	100.0	562
Borno	55.7	1,984	9.9	80.0	10.0	0.0	100.0	1,106
Cross River	79.8	693	10.0	83.1	4.7	2.2	100.0	552
Delta	80.8	584	24.7	71.5	1.8	2.0	100.0	472
Ebonyi	79.9	400	3.8	93.5	1.9	0.8	100.0	320
Edo	86.4	494	26.9	59.5	10.5	3.0	100.0	427
Ekiti	88.8	216	31.4	46.8	11.5	10.3	100.0	192
Enugu	71.2	495	8.9	85.1	3.1	3.0	100.0	353
Gombe	10.7	562	7.6	77.3	8.1	7.0	100.0	60
Imo	92.5	606	29.6	66.2	1.4	2.8	100.0	561
Jigawa	51.1	1,313	33.0	45.6	12.7	8.8	100.0	670
Kaduna	64.4	2,076	35.6	44.2	18.0	2.2	100.0	1,337
Kano	48.3	2,389	59.0	34.1	5.9	1.1	100.0	1,155
Katsina	18.9	1,950	3.8	76.1	6.3	13.8	100.0	369
Kebbi	7.8	956	12.1	71.8	14.2	1.8	100.0	75
Kogi	15.5	632	14.6	80.7	1.0	3.6	100.0	98
Kwara	80.8	487	46.8	38.0	10.1	5.0	100.0	394
Lagos	86.5	1,725	12.9	73.2	9.5	4.3	100.0	1,493
Nasarawa	67.7	738	17.0	71.0	8.5	3.5	100.0	500
Niger	21.9	1,536	5.2	82.6	10.4	1.7	100.0	337
Ogun	69.1	474	12.1	76.5	7.8	3.7	100.0	327
Ondo	80.8	646	18.1	73.7	3.2	5.0	100.0	522
Osun	91.8	638	38.5	54.7	6.7	0.1	100.0	586
Oyo	89.5	1,042	30.5	55.1	7.1	7.3	100.0	933
Plateau	27.6	1,317	13.5	71.1	6.8	8.6	100.0	364
Rivers	81.2	803	3.9	94.6	0.6	1.0	100.0	652
Sokoto	24.5	912	1.9	94.2	1.5	2.3	100.0	223
Taraba	17.1	558	8.5	81.2	6.0	4.3	100.0	96
Yobe	23.5	1,091	1.7	49.9	47.1	1.3	100.0	256
Zamfara	44.7	1,337	61.0	33.8	2.8	2.4	100.0	597

FCT-Abuja	54.5	340	6.7	80.3	10.2	2.7	100.0	185
<small>1 MICS indicator 8.9 - Approval for FGM/C</small>								

Attitudes toward Domestic Violence

Table CP.13: Attitudes toward domestic violence (women)

Percentage of women age 15-49 years who believe a husband is justified in beating his wife in various circumstances, Nigeria, 2016-17

Percentage of women age 15-49 years who believe a husband is justified in beating his wife:							
	If she goes out without children	If she neglects him with him	If she argues with food reasons ¹	If she refuses sex 15-49 years	If she burns the	For any of these five	Number of women age 15-49 years telling him
Total	19.9	20.9	18.5	20.3	11.8	33.7	34,376
Geopolitical zone							
North Central	23.5	27.5	23.0	26.6	11.8	40.3	6,006
North East	17.6	13.4	15.3	20.7	9.7	30.0	6,584
North West	24.1	23.1	22.4	27.5	16.8	38.2	10,932
South East	13.1	17.3	14.0	11.0	8.6	26.1	2,445
South South	19.6	23.1	15.4	10.2	8.6	34.2	3,668
South West	12.6	17.8	13.0	7.8	7.3	23.7	4,741
Residence							
Urban	13.1	16.0	12.6	13.1	7.5	25.4	12,373
Rural	23.7	23.7	21.9	24.3	14.2	38.3	22,003
Age (years)							
15-19	17.3	18.8	16.9	16.6	10.9	30.3	6,822
20-24	21.0	21.1	18.5	21.3	12.6	34.4	5,816
25-29	20.2	21.7	19.5	21.9	12.2	35.0	5,915
30-34	20.2	21.7	19.1	21.1	11.6	34.7	5,390
35-39	20.5	21.1	18.9	21.0	12.2	34.1	4,339
40-44	20.9	22.4	19.0	21.3	11.7	35.0	3,571
45-49	19.9	20.1	18.4	19.7	11.7	33.6	2,524
Marital/Union status							
Currently married/in union	21.9	22.4	20.4	23.2	13.0	36.4	24,373
Formerly married/in union	16.8	19.8	15.0	15.6	9.0	30.0	1,405
Never married/in union	14.7	16.9	13.9	12.8	8.9	26.7	8,520
Education							
None	23.7	21.8	21.3	26.3	13.3	37.7	7,799
Non-formal	26.1	24.7	24.5	30.2	18.3	40.3	5,646
Primary	23.2	25.3	21.4	22.7	13.8	38.9	4,963
Secondary	16.7	19.7	16.0	14.5	9.3	30.8	12,466
Higher	7.9	10.7	7.6	8.2	4.2	17.0	3,502
Wealth index quintile							
Poorest	29.0	26.1	25.1	31.2	17.5	42.5	6,120
Second	26.5	24.8	24.0	28.6	16.8	40.9	6,478
Middle	20.7	22.7	20.4	21.2	12.3	36.7	6,708
Fourth	16.6	20.0	16.5	14.9	9.1	31.4	7,053
Richest	9.8	13.1	9.3	9.2	5.4	20.7	8,017
Ethnicity of household head							
Hausa	22.3	20.5	20.2	25.8	13.9	36.0	15,920
Igbo	12.5	15.8	12.8	10.5	8.1	24.2	3,558
Yoruba	12.7	18.1	12.9	8.3	7.6	24.8	4,380
Other ethnic group	21.7	24.4	20.3	20.2	11.7	37.1	10,518
¹ MICS indicator 8.12 - Attitudes towards domestic violence							

Table CP.13: Attitudes toward domestic violence (women) continued

Percentage of women age 15-49 years who believe a husband is justified in beating his wife in various circumstances, Nigeria, 2016-17

	Percentage of women age 15-49 years who believe a husband is justified in beating his wife:						Number of women age 15-49 years
	If she goes out without children	If she neglects him with him	If she argues with food reasons ¹	If she refuses sex	If she burns the these five	For any of these five	
Total	19.9	20.9	18.5	20.3	11.8	33.7	34,376
State							
Abia	19.7	22.5	16.7	9.0	5.2	31.9	336
Adamawa	24.8	21.3	21.9	26.0	16.1	35.4	830
Akwa Ibom	27.9	23.3	16.4	9.8	8.9	41.8	834
Anambra	1.1	3.9	2.4	4.3	2.1	8.7	608
Bauchi	20.5	5.2	9.4	18.2	4.1	27.8	1,559
Bayelsa	9.1	14.0	12.4	6.7	2.8	21.2	260
Benue	34.3	37.6	33.0	25.9	16.7	50.9	956
Borno	6.6	7.0	9.0	10.3	3.1	18.5	1,984
Cross River	20.7	31.3	15.7	8.1	11.2	40.5	693
Delta	29.4	31.6	21.1	18.8	17.4	45.3	584
Ebonyi	28.5	23.6	25.2	23.5	18.1	36.7	400
Edo	11.3	15.2	14.9	9.9	5.8	24.9	494
Ekiti	16.9	25.3	20.4	7.7	12.8	33.8	216
Enugu	6.1	9.5	8.1	5.8	2.4	16.9	495
Gombe	7.6	10.5	12.5	14.0	7.6	19.6	562
Imo	17.1	30.0	21.4	14.7	15.8	41.1	606
Jigawa	43.2	35.3	31.9	33.8	27.7	50.7	1,313
Kaduna	8.3	9.7	8.5	22.9	6.7	29.8	2,076
Kano	18.8	19.5	24.1	25.8	18.2	34.7	2,389
Katsina	51.7	48.8	43.3	53.5	33.1	65.4	1,950
Kebbi	16.2	15.2	13.6	14.6	7.0	25.8	956
Kogi	31.2	34.1	35.5	39.0	31.0	43.9	632
Kwara	9.3	9.9	4.6	4.5	4.3	15.3	487
Lagos	2.1	3.3	1.8	1.9	1.2	4.7	1,725
Nasarawa	15.6	14.7	17.3	33.8	9.3	41.9	738
Niger	24.8	27.3	21.1	28.8	7.6	39.0	1,536
Ogun	15.2	25.6	19.2	5.9	8.1	34.9	474
Ondo	25.9	27.6	20.0	16.6	15.6	42.4	646
Osun	20.8	28.5	23.6	11.8	10.9	35.7	638
Oyo	14.5	23.9	16.3	10.3	8.7	29.2	1,042
Plateau	24.1	34.4	24.8	26.8	9.6	44.1	1,317
Rivers	11.3	17.4	11.4	7.4	3.0	22.5	803
Sokoto	7.6	8.1	10.7	11.7	7.5	19.8	912
Taraba	25.8	23.4	22.0	24.9	11.1	43.0	558
Yobe	28.6	27.2	28.5	40.5	25.5	48.9	1,091

Zamfara	15.6	17.1	15.7	13.4	9.1	26.6	1,337
<p>1 MICS indicator 8.12 - Attitudes towards domestic violence</p>							
FCT-Abuja	7.8	14.9	12.6	11.2	6.2	27.2	340

Table CP.13M: Attitudes toward domestic violence (men)

Percentage of men age 15-49 years who believe a husband is justified in beating his wife in various circumstances, Nigeria, 2016-17

Percentage of men age 15-49 years who believe a husband is justified in beating his wife:

	If she goes out without children	If she neglects him with him	If she argues with food reasons ¹	If she refuses sex	If she burns the these five	If she tells him	For any of these five	Number of men age 15-49 telling him							
Total	10.0	9.6	9.6	11.4	6.9	21.5		15,183							
Geopolitical zone															
North Central	6.9	7.6	5.9	5.7	4.0	15.2		2,730							
North East	15.6	7.9	9.1	20.1	10.8	27.2		2,943							
North West	9.3	10.0	11.6	12.0	8.8	20.8		4,674							
South East	12.9	11.3	15.8	17.5	5.1	31.1		984							
South South	11.8	14.1	12.1	11.3	6.1	27.7		1,664							
South West	5.1	9.2	6.2	2.8	2.6	14.0		2,189							
Residence															
Urban	10.2	9.4	8.9	10.6	6.4	20.8		5,627							
Rural	9.8	9.7	10.1	11.8	7.2	21.8		9,556							
Age (years)															
15-19	10.9	10.8	12.0	12.3	8.9	24.8		3,508							
20-24	8.5	9.5	9.2	11.2	6.0	21.7		2,378							
25-29	10.6	10.2	10.7	12.5	7.0	23.3		2,191							
30-34	11.5	8.9	9.4	11.3	6.8	19.9		2,078							
35-39	10.3	8.4	7.6	11.2	6.1	20.1		1,936							
40-44	8.0	7.9	8.2	9.8	6.1	18.3		1,724							
45-49	9.2	10.2	7.5	9.8	5.6	18.0		1,368							
Marital/Union status															
Currently married/in union	8.8	8.8	7.9	9.6	5.7	18.2		7,213							
Formerly married/in union	13.2	16.8	13.7	9.7	7.1	28.6		210							
Never married/in union	11.0	10.1	11.1	13.1	8.0	24.3		7,749							
Education															
None	9.0	9.7	9.0	11.3	7.8	18.5		1,563							
Non-formal	14.1	8.1	11.4	19.0	11.4	27.4		2,140							
Primary	11.0	12.3	11.7	11.7	7.3	23.8		1,997							
Secondary	9.9	10.3	10.2	10.5	6.1	22.4		6,861							
Higher	6.7	6.6	5.6	7.2	4.5	14.2		2,622							
Wealth index quintile															
Poorest	8.4	8.7	10.1	13.0	7.9	20.8	2,614	Second	9.3	9.7	10.2	10.7	6.3	20.4	2,901
Middle	11.2	11.0	10.4	14.0	8.9	25.4		2,927							
Fourth	12.9	11.3	10.9	13.1	7.7	25.3		3,202							
Richest	8.1	7.4	7.0	7.0	4.4	16.2		3,539							
Ethnicity of household head															
Hausa	12.4	9.5	10.9	15.0	9.8	23.6		6,958							
Igbo	10.0	9.6	12.3	12.5	4.0	24.5		1,488							

Yoruba	5.0	9.1	6.4	3.8	3.9	14.4	1,980
Other ethnic group	8.5	9.9	8.3	8.8	4.8	20.4	4,757
¹ MICS indicator 8.12 - Attitudes towards domestic violence ^[M]							

Table CP.13M: Attitudes toward domestic violence (men) continued.

Percentage of men age 15-49 years who believe a husband is justified in beating his wife in various circumstances, Nigeria, 2016-17

	Percentage of men age 15-49 years who believe a husband is justified in beating his wife:						Number of men age 15-49 telling him
	If she goes out without children	If she neglects him	If she argues with him	If she refuses sex with him	If she burns the food	If she does these five things	
Total	10.0	9.6	9.6	11.4	6.9	21.5	15,183
State							
Abia	23.7	20.4	33.6	21.9	9.3	45.3	142
Adamawa	9.1	9.9	10.0	14.6	6.1	21.8	389
Akwa Ibom	15.2	17.6	14.2	8.2	8.6	30.5	365
Anambra	4.3	3.9	4.8	6.1	2.2	11.9	241
Bauchi	1.4	0.5	0.9	2.2	0.4	2.6	681
Bayelsa	9.7	16.1	17.2	8.7	3.6	29.8	121
Benue	13.4	12.2	10.0	7.1	6.6	19.6	481
Borno	42.4	14.9	17.2	44.4	27.6	55.6	813
Cross River	8.2	10.7	10.6	11.9	3.7	29.4	275
Delta	18.7	18.8	11.6	5.2	8.3	24.9	258
Ebonyi	16.2	10.2	22.0	32.9	2.0	43.3	152
Edo	22.2	21.4	14.1	17.7	12.3	31.2	209
Ekiti	7.2	6.6	4.4	2.1	0.8	11.9	96
Enugu	16.4	16.1	21.8	32.6	4.1	46.1	190
Gombe	10.3	10.8	8.2	15.2	9.1	20.7	268
Imo	10.6	10.5	8.4	5.6	8.1	22.9	260
Jigawa	2.2	6.3	6.0	11.3	7.1	14.5	534
Kaduna	18.3	15.3	17.4	16.0	15.0	27.8	898
Kano	13.6	13.5	12.2	13.9	13.2	22.0	1,028
Katsina	0.6	1.5	2.9	6.5	0.9	9.1	816
Kebbi	12.5	21.8	17.7	14.2	14.0	35.7	426
Kogi	15.5	7.2	7.7	5.3	8.1	20.0	275
Kwara	0.9	1.9	1.0	1.3	2.6	3.3	232
Lagos	3.0	2.2	2.2	0.8	0.8	4.4	808
Nasarawa	6.5	6.7	3.8	4.1	2.6	13.6	352
Niger	2.0	3.5	3.0	4.3	4.1	10.4	645
Ogun	10.3	27.2	17.9	5.1	4.1	31.0	206
Ondo	8.4	11.4	14.7	1.0	1.7	19.5	293
Osun	4.7	7.7	7.5	1.2	2.7	12.5	296
Oyo	4.1	13.1	2.4	7.1	6.0	20.5	490
Plateau	7.1	12.5	9.1	9.9	2.1	22.9	606
Rivers	2.8	6.5	9.2	14.7	2.1	23.6	436
Sokoto	1.6	0.8	1.0	0.7	1.1	2.8	358
Taraba	12.4	11.9	19.3	12.8	10.3	32.9	256
Yobe	2.1	2.0	2.4	16.0	3.3	20.0	537
Zamfara	8.7	8.1	20.2	16.0	5.0	29.6	613
FCT-Abuja	0.6	1.5	1.0	0.6	0.2	2.7	139

Children's Living Arrangements

Table CP.14: Children's living arrangements and orphanhood

Percent distribution of children age 0-17 years according to living arrangements, percentage of children age 0-17 years not living with a biological parent and percentage of children who have one or both parents dead, Nigeria, 2016-17

	Living with neither biological parent		Living with mother only		Living with father only		Missing information	Living with neither or both parents		Number of children age 0-17 years				
	with both father and mother alive	Only mother alive	Only father alive	Both father and mother alive	Both father and mother alive	Both father and mother alive		neither	both					
Total	81.4	0.6	1.0	5.3	0.6	3.8	3.5	2.5	1.2	0.1	100.0	7.5	6.9	96,192
Geopolitical zone														
North Central	80.9	0.4	1.0	6.0	0.7	3.4	3.7	2.6	1.2	0.1	100.0	8.1	7.1	16,114
North East	85.1	0.4	1.3	4.0	0.3	1.9	3.2	2.7	1.2	0.1	100.0	6.0	6.4	21,160
North West	87.0	0.5	0.7	3.4	0.8	1.2	2.5	2.5	1.3	0.1	100.0	5.4	5.8	35,260
South East	69.3	0.9	1.7	9.1	0.7	7.6	7.9	1.3	1.2	0.3	100.0	12.5	12.4	5,567
South South	65.9	0.8	1.4	7.8	0.7	12.9	5.9	3.5	1.0	0.1	100.0	10.7	9.8	7,939
South West	73.5	0.8	1.0	10.0	0.3	8.2	3.1	2.0	1.1	0.1	100.0	12.1	6.2	10,152
Residence														
Urban	78.6	0.7	1.1	6.5	0.6	4.6	4.5	2.0	1.3	0.1	100.0	8.9	8.2	30,350
Rural	82.7	0.5	1.0	4.8	0.6	3.4	3.1	2.7	1.2	0.1	100.0	6.9	6.3	65,843
Age (years)														
0-4	89.1	0.3	0.3	2.3	0.2	4.8	1.7	1.1	0.3	0.1	100.0	3.1	2.7	31,299
5-9	82.7	0.5	0.8	5.1	0.4	3.4	3.2	2.8	1.0	0.1	100.0	6.8	5.9	29,627
10-14	76.8	0.7	1.6	6.8	0.7	3.2	4.8	3.5	1.9	0.1	100.0	9.8	9.8	24,773
15-17	65.6	1.2	2.5	11.7	2.0	3.5	7.0	3.5	2.5	0.3	100.0	17.5	15.3	10,494
Wealth index quintile														
Poorest	88.3	0.5	0.6	3.4	0.6	1.2	1.8	2.2	1.3	0.1	100.0	5.1	4.8	21,357
Second	84.4	0.4	0.8	4.4	0.5	2.5	2.9	3.0	0.9	0.1	100.0	6.1	5.6	20,354
Middle	76.8	0.5	1.6	6.2	0.7	5.0	5.0	2.9	1.2	0.1	100.0	9.0	9.1	19,298
Fourth	75.8	0.7	1.0	7.1	0.6	5.4	5.4	2.5	1.4	0.1	100.0	9.4	9.1	18,419
Richest	80.4	0.6	1.2	6.2	0.7	5.4	2.6	1.8	1.1	0.1	100.0	8.6	6.2	16,765
Ethnicity of household head														
Hausa	86.8	0.5	0.9	3.4	0.6	1.3	2.5	2.6	1.3	0.1	100.0	5.4	5.8	52,167
Igbo	72.9	0.8	1.4	8.1	0.5	6.7	6.7	1.4	1.3	0.2	100.0	10.9	10.7	7,938
Yoruba	71.6	0.8	1.0	11.0	0.5	8.4	3.7	2.0	0.8	0.1	100.0	13.4	6.9	9,481
Other ethnic group	76.8	0.5	1.3	6.2	0.6	6.1	4.5	2.9	1.1	0.1	100.0	8.6	7.9	26,606

¹ MICS indicator 8.13 - Children's living arrangements ²
 MICS indicator 8.14 - Prevalence of children with one or both parents dead

Table CP.14: Children's living arrangements and orphanhood (continued)

Percent distribution of children age 0-17 years according to living arrangements, percentage of children age 0-17 years not living with a biological parent and percentage of children who have one or both parents dead, Nigeria, 2016-17

Living	Living with neither biological parent	Living with mother only	Living with father only	Missing	Living with One or
	with Only information neither both	Number of both father mother	Both Both Father Father Mothe	Both Both Father Father Mothe	Mother on father/
	biological parents children age	parents alive alive alive	dead alive dead r	alive dead mother Total	parent ¹ dead ² 0-17 years

Total State	81.4	0.6	1.0	5.3	0.6	3.8	3.5	2.5	1.2	0.1	100.0	7.5	6.9	96,192
Abia	71.3	0.9	2.0	8.1	0.9	8.0	6.7	0.9	0.9	0.3	100.0	11.9	11.4	776
Adamawa	82.0	0.5	1.6	5.6	0.7	2.6	2.2	3.9	1.0	0.0	100.0	8.4	5.9	2,351
Akwa Ibom	58.5	1.3	2.1	9.1	1.1	14.8	7.2	4.2	1.4	0.1	100.0	13.6	13.2	1,831
Anambra	71.4	1.1	1.2	7.9	0.4	7.6	8.1	1.1	0.9	0.2	100.0	10.6	11.8	1,338
Bauchi	88.9	0.2	0.7	2.7	0.2	0.7	1.5	3.9	1.1	0.0	100.0	3.9	3.8	5,136
Bayelsa	60.2	1.2	1.1	8.6	0.4	19.2	4.9	3.7	0.6	0.0	100.0	11.4	8.3	640
Benue	72.8	0.6	1.9	9.1	1.3	4.1	6.1	3.0	1.2	0.0	100.0	12.8	11.1	2,554
Borno	82.8	0.4	1.8	3.4	0.3	2.9	5.8	1.2	1.2	0.2	100.0	5.9	9.5	6,427
Cross River	66.7	0.2	1.0	9.9	0.9	12.2	4.8	4.0	0.4	0.0	100.0	11.9	7.3	1,571
Delta	69.0	0.6	1.0	7.3	0.3	13.7	5.1	2.1	1.0	0.0	100.0	9.2	7.9	1,355
Ebonyi	70.2	0.6	0.8	9.5	0.7	6.3	9.4	1.4	0.8	0.3	100.0	11.6	12.3	1,076
Edo	75.1	0.6	0.5	4.2	0.5	8.3	7.1	2.4	1.2	0.1	100.0	5.8	9.9	1,028
Ekiti	64.9	1.4	1.2	13.2	1.2	11.6	3.1	2.1	1.1	0.1	100.0	17.0	8.1	460
Enugu	70.0	0.9	1.8	10.3	0.9	5.1	8.7	0.9	0.7	0.6	100.0	14.1	13.2	993
Gombe	87.3	0.8	0.5	4.2	0.4	1.4	1.2	3.0	1.1	0.0	100.0	6.0	4.1	1,865
Imo	65.1	1.0	2.6	9.8	0.8	10.1	6.5	1.7	2.2	0.2	100.0	14.2	13.0	1,384
Jigawa	87.9	0.7	0.8	3.6	0.2	0.8	0.9	3.4	1.5	0.2	100.0	5.3	4.1	4,801
Kaduna	85.4	0.4	0.8	3.9	0.4	1.5	4.2	2.0	1.3	0.0	100.0	5.5	7.2	5,745
Kano	86.2	0.6	0.8	3.5	1.1	1.4	2.7	2.5	1.2	0.0	100.0	6.0	6.4	7,772
Katsina	90.3	0.2	0.3	2.4	1.3	0.6	1.7	1.9	1.3	0.0	100.0	4.2	4.7	6,357
Kebbi	86.7	0.3	0.8	3.0	1.1	1.2	2.6	2.4	1.7	0.2	100.0	5.3	6.6	3,133
Kogi	66.1	0.8	1.2	12.3	0.7	9.9	4.7	3.0	1.0	0.3	100.0	15.1	8.4	1,488
Kwara	79.7	0.7	1.0	8.8	1.0	3.3	4.3	1.0	0.1	0.0	100.0	11.5	7.2	1,321
Lagos	78.8	0.5	0.7	5.8	0.4	7.0	3.4	1.5	1.7	0.2	100.0	7.5	6.8	3,216
Nasarawa	81.6	0.4	1.2	4.4	0.5	2.5	3.9	3.5	2.0	0.0	100.0	6.6	8.0	2,074
Niger	89.5	0.2	0.4	3.0	0.4	1.2	1.6	2.3	1.4	0.0	100.0	3.9	4.0	4,487
Ogun	75.3	0.6	0.6	9.6	0.0	9.1	2.8	1.3	0.4	0.1	100.0	10.9	4.5	1,080
Ondo	65.7	0.9	1.6	12.2	0.2	13.7	3.2	2.0	0.5	0.0	100.0	14.8	6.4	1,482
Osun	66.4	1.5	2.0	14.5	0.3	8.1	3.2	2.9	1.0	0.0	100.0	18.3	8.0	1,409
Oyo	76.3	0.6	0.4	11.1	0.2	5.4	2.7	2.3	0.9	0.1	100.0	12.4	4.8	2,506
Plateau	81.1	0.5	1.2	5.1	0.6	3.9	3.9	2.5	1.0	0.1	100.0	7.4	7.2	3,451
Rivers	67.4	0.8	2.3	6.6	0.7	11.1	5.7	3.9	1.4	0.1	100.0	10.4	10.9	1,514
Sokoto	84.5	0.6	0.8	5.2	0.4	2.0	3.1	2.0	1.0	0.3	100.0	7.0	6.1	2,984
Taraba	80.2	0.3	1.1	5.9	1.0	3.7	2.9	4.0	0.8	0.1	100.0	8.3	6.2	1,524
Yobe	86.5	0.2	1.7	4.7	0.1	0.6	2.6	2.1	1.4	0.0	100.0	6.7	6.1	3,856
Zamfara	86.9	1.1	0.7	2.8	0.3	1.0	2.5	3.3	1.0	0.3	100.0	4.8	5.6	4,468
FCT-Abuja	84.9	0.1	0.1	4.5	0.8	2.2	3.9	1.8	1.6	0.0	100.0	5.5	6.5	739

¹ MICS indicator 8.13 - Children's living arrangements ²
MICS indicator 8.14 - Prevalence of children with one or both parents dead

Table CP.15: Children with parents living abroad

Percent distribution of children age 0-17 years by residence of parents in another country, Nigeria, 2016-17

	Percent distribution of children age 0-17 years:					Percentage of children age 0-17 years with at least one parent living abroad	Number of children age abroad
	With at least one parent living abroad		With neither		Total abroad ¹ 0-17 years		
	Only mother abroad	Only father abroad	Both mother and father living abroad	least one parent living abroad			
Total	0.0	0.1	0.0	99.9	100.0	0.1	96,192
Geopolitical zone							
North Central	0.0	0.0	0.0	100.0	100.0	0.0	16,114
North East	0.0	0.0	0.0	100.0	100.0	0.0	21,160
North West	0.0	0.0	0.0	99.9	100.0	0.1	35,260
South East	0.0	0.3	0.0	99.7	100.0	0.3	5,567
South South	0.0	0.2	0.0	99.8	100.0	0.2	7,939
South West	0.1	0.3	0.3	99.3	100.0	0.7	10,152
Residence							
Urban	0.0	0.2	0.1	99.7	100.0	0.3	30,350
Rural	0.0	0.0	0.0	99.9	100.0	0.1	65,843
Age group (Years)							
0-4	0.0	0.1	0.0	99.9	100.0	0.1	31,299
5-9	0.0	0.1	0.0	99.9	100.0	0.1	29,627
10-14	0.0	0.1	0.1	99.8	100.0	0.2	24,773
15-17	0.1	0.1	0.0	99.8	100.0	0.2	10,494
Wealth index quintile							
Poorest	0.0	0.0	0.0	100.0	100.0	0.0	21,357
Second	0.0	0.0	0.0	100.0	100.0	0.0	20,354
Middle	0.0	0.1	0.0	99.9	100.0	0.1	19,298
Fourth	0.0	0.1	0.0	99.9	100.0	0.1	18,419
Richest	0.1	0.3	0.1	99.6	100.0	0.4	16,765
Ethnicity of household head							
Hausa	0.0	0.0	0.0	100.0	100.0	0.0	52,167
Igbo	0.0	0.5	0.0	99.5	100.0	0.5	7,938
Yoruba	0.1	0.2	0.2	99.5	100.0	0.5	9,481
Other ethnic group	0.0	0.1	0.0	99.9	100	0.1	26,606

¹ MICS indicator 8.15 - Children with at least one parent living abroad

Table CP.15: Children with parents living abroad (continued)

Percent distribution of children age 0-17 years by residence of parents in another country, Nigeria, 2016-17

	Percent distribution of children age (-17 years):					Total	Percentage of children age 0-17 years with at least one parent living abroad ¹	Number of children age 0-17 years
	With at least one parent living abroad			Only mother and father abroad	With neither parent living abroad			
	mother abroad	Only father abroad	abroad					
Total	0.0	0.1	0.0	99.9	100.0	0.1	96,192	
State								
Abia	0.1	1.1	0.0	98.7	100.0	1.3	776	
Adamawa	0.1	0.0	0.0	99.9	100.0	0.1	2,351	
Akwa Ibom	0.0	0.0	0.0	100.0	100.0	0.0	1,831	
Anambra	0.0	0.1	0.0	99.9	100.0	0.1	1,338	
Bauchi	0.0	0.0	0.0	100.0	100.0	0.0	5,136	
Bayelsa	0.0	0.0	0.0	100.0	100.0	0.0	640	
Benue	0.0	0.0	0.0	100.0	100.0	0.0	2,554	
Borno	0.0	0.0	0.0	100.0	100.0	0.0	6,427	
Cross River	0.0	0.0	0.0	100.0	100.0	0.0	1,571	
Delta	0.0	0.0	0.0	100.0	100.0	0.0	1,355	
Ebonyi	0.0	0.0	0.0	100.0	100.0	0.0	1,076	
Edo	0.0	0.9	0.0	99.1	100.0	0.9	1,028	
Ekiti	0.1	0.0	0.5	99.4	100.0	0.6	460	
Enugu	0.0	0.0	0.0	100.0	100.0	0.0	993	
Gombe	0.0	0.0	0.0	100.0	100.0	0.0	1,865	
Imo	0.0	0.5	0.0	99.5	100.0	0.5	1,384	
Jigawa	0.1	0.0	0.0	99.9	100.0	0.1	4,801	
Kaduna	0.0	0.1	0.0	99.9	100.0	0.1	5,745	
Kano	0.1	0.0	0.0	99.9	100.0	0.1	7,772	
Katsina	0.0	0.0	0.0	100.0	100.0	0.0	6,357	
Kebbi	0.0	0.0	0.0	100.0	100.0	0.0	3,133	
Kogi	0.0	0.0	0.0	100.0	100.0	0.0	1,488	
Kwara	0.1	0.0	0.0	99.9	100.0	0.1	1,321	
Lagos	0.0	0.7	0.2	99.1	100.0	0.9	3,216	
Nasarawa	0.0	0.0	0.0	100.0	100.0	0.0	2,074	
Niger	0.0	0.0	0.0	100.0	100.0	0.0	4,487	
Ogun	0.3	0.3	0.2	99.3	100.0	0.7	1,080	
Ondo	0.0	0.0	0.0	100.0	100.0	0.0	1,482	
Osun	0.1	0.3	0.7	98.9	100.0	1.1	1,409	
Oyo	0.1	0.1	0.3	99.5	100.0	0.5	2,506	
Plateau	0.0	0.1	0.0	99.9	100.0	0.1	3,451	
Rivers	0.0	0.3	0.0	99.7	100.0	0.3	1,514	
Sokoto	0.0	0.0	0.0	100.0	100.0	0.0	2,984	
Taraba	0.0	0.0	0.0	100.0	100.0	0.0	1,524	

Yobe	0.0	0.0	0.0	100.0	100.0	0.0	3,856
Zamfara	0.0	0.0	0.0	100.0	100.0	0.0	4,468
FCT-Abuja	0.0	0.0	0.0	100.0	100.0	0.0	739
¹ MICS indicator 8.15 - Children with at least one parent living abroad							

XII. HIV/AIDS and Sexual Behaviour

Knowledge about HIV Transmission and Misconceptions about HIV

Table HA.1: Knowledge about HIV transmission, misconceptions about HIV, and comprehensive knowledge about HIV transmission (women)

Percentage of women age 15-49 years who know the main ways of preventing HIV transmission, percentage who know that a healthy-looking person can be HIV-positive, percentage who reject common misconceptions, and percentage who have comprehensive knowledge about HIV transmission, Nigeria, 2016-17

	Percentage who know transmission can be prevented by:	Percentage who know that HIV cannot be transmitted by:	Percentage who reject the two most common
Having that a misconceptions only one healthy- and know that	Percentage faithful Using a looking Sharing a healthy- Percentage who have uninfected condom person can food with looking	Number of heard of sex every be HIV- Mosquito Supernatural someone can be HIV- comprehensive women	Percentage who have uninfected condom person can food with looking
AIDS partner time Both positive bites means with HIV positive knowledge ¹ age 15-49			

Total			83.4	67.8	55.4	50.5	64.6	59.6	59.6	60.2	40.3	29.4	34,376			
Geopolitical zone																
North Central			81.2	67.0	56.0	51.1	62.4	55.0	53.7	56.6	36.7	28.1	6,006			
North East	77.6		63.3	46.4	42.0	60.7	58.2	58.2	59.1	41.1	28.5	6,584	North West	77.7	59.2	
	43.7	40.0	52.6	56.3	57.0	51.0	35.0	23.9	10,932	South East	92.6	72.0	63.3	54.5	80.0	70.1
						62.8	71.9	48.3	31.2	2,445						
South South			95.1	83.8	77.8	72.4	82.9	68.6	60.4	76.4	45.9	37.3	3,668			
South West			93.3	80.1	73.1	66.8	78.6	62.3	72.8	68.6	47.2	38.2	4,741			
Residence																
Urban			92.9	79.4	68.6	63.0	77.7	70.5	73.1	72.4	52.6	40.4	12,373			
Rural			78.0	61.2	48.1	43.5	57.3	53.4	52.0	53.3	33.4	23.2	22,003			
Age (years)																
15-24 ¹	81.8	65.7	54.1	49.1	62.2	59.0	59.2	59.0	39.8	29.3	12,637	15-19	79.8	63.4	50.9	
46.3	59.6	58.0	58.6	57.3	38.8	28.1	6,822									
20-24			84.0	68.4	57.9	52.4	65.2	60.2	60.0	61.0	41.0	30.7	5,816			
25-29			84.1	68.6	56.6	51.8	66.0	60.8	60.8	61.5	42.1	30.8	5,915			
30-39			85.1	70.1	57.2	52.1	66.6	60.9	60.3	61.9	40.6	29.4	9,729			
40-49			83.2	67.6	54.2	49.5	65.1	57.4	58.0	58.4	38.9	28.4	6,095			
Marital status																
Ever married/in union			82.3	66.6	53.7	48.9	63.0	57.7	57.9	58.1	38.5	27.8	25,778			
Never married/in union			86.8	71.8	61.2	55.8	69.8	65.4	64.9	66.7	45.8	34.5	8,520			
Education																
None			70.6	52.8	38.8	35.0	47.2	47.2	47.5	44.2	28.3	19.8	7,799			
Non-formal			70.8	52.1	34.4	31.1	45.6	50.2	49.9	44.4	28.8	17.8	5,646			
Primary	85.3	69.0	56.3	50.6	65.4	55.5	57.1	59.3	36.4	25.8	4,963	Secondary	92.1	77.8	67.9	
			61.8	76.5	66.6	66.7	70.8	47.0	35.4	12,466						
Higher			98.4	88.9	80.8	76.1	90.8	83.0	80.5	84.4	66.9	53.7	3,502			
Wealth index quintile																
Poorest			63.5	46.0	32.5	29.3	38.7	43.1	43.5	36.3	23.6	15.7	6,120			
Second			75.4	57.2	42.3	38.2	52.0	50.5	49.9	49.6	30.3	20.8	6,478			
Middle			86.4	70.4	55.5	50.5	65.4	58.9	58.1	61.6	38.1	27.4	6,708			
Fourth			91.2	76.6	65.5	59.4	75.7	64.4	66.2	68.5	45.4	32.7	7,053			
Richest			95.5	82.9	74.7	68.8	84.2	75.8	75.2	78.2	58.4	45.6	8,017			
Ethnicity of household head																
Hausa	76.4	58.6	43.9	39.8	53.5	55.6	57.1	51.7	36.1	25.0	15,920	Igbo	93.5	76.2	67.2	
			59.7	81.1	71.9	65.8	73.5	50.8	35.4	3,558						
Yoruba			93.3	79.4	72.3	65.7	77.6	61.2	73.1	68.3	46.5	37.7	4,380			
Other ethnic group	86.3		73.9	62.0	57.3	70.5	60.7	55.7	65.1	40.5	30.7	10,518				

MICS indicator 9.1; MDG indicator 6.3 - Knowledge about HIV prevention among young women

Table HA.1: Knowledge about HIV transmission, misconceptions about HIV, and comprehensive knowledge about HIV transmission (women) continued.

Percentage of women age 15-49 years who know the main ways of preventing HIV transmission, percentage who know that a healthy looking person can be HIV-positive, percentage who reject common misconceptions, and percentage who have comprehensive knowledge about HIV transmission, Nigeria, 2016-17

	Percentage who know transmission can be prevented by:							Percentage who reject the two most common misconceptions only one healthy and know that															
	AIDS	partner	time	Both	positive	bites	means	with HIV	positive	knowledge ¹	age 15-49												
Total	83.4	67.8	55.4	50.5	64.6	59.6	59.6	60.2	40.3	29.4	34,376												
State																							
Abia	96.5	70.5	54.7	46.0	83.6	66.2	63.4	83.5	44.8	22.0	336												
Adamawa	83.7	62.9	48.7	40.2	58.9	53.6	43.7	54.5	26.0	16.9	830												
Akwa Ibom	99.5	86.7	84.8	78.9	92.4	55.6	46.6	67.6	35.2	27.7	834												
Anambra	97.0	72.8	69.9	58.9	87.0	72.0	65.8	67.1	53.1	36.8	608												
Bauchi	81.6	62.4	49.1	43.7	68.9	58.2	61.5	60.9	46.5	35.3	1,559												
Bayelsa	94.8	85.1	76.1	73.0	74.2	77.2	68.8	73.0	50.5	43.5	260												
Benue	98.7	85.4	75.6	69.3	80.2	71.7	66.9	76.1	50.9	41.4	956												
Borno	90.6	81.8	58.2	54.9	78.1	73.6	80.4	75.4	61.0	42.0	1,984												
Cross River	98.3	91.9	84.4	80.7	83.2	68.6	53.4	84.4	37.4	32.7	693												
Delta	88.6	72.1	59.8	53.5	62.0	62.4	58.5	70.2	33.3	23.2	584												
Ebonyi	81.9	70.6	62.8	57.5	63.1	57.6	42.5	44.9	29.7	23.0	400												
Edo	88.3	76.4	75.9	67.6	84.8	80.9	80.0	72.7	72.9	59.1	494												
Ekiti	97.0	76.7	74.1	63.0	86.3	53.1	70.9	70.4	39.7	28.9	216												
Enugu	85.7	61.8	50.8	43.5	73.8	72.4	64.4	77.0	52.4	28.7	495												
Gombe	50.0	44.6	25.2	24.3	37.6	33.5	34.4	37.7	22.1	12.8	562												
Imo	98.8	81.3	71.9	61.7	87.0	76.6	71.7	84.0	54.2	38.0	606												
Jigawa	79.4	59.5	50.6	44.3	60.5	51.1	49.3	37.7	35.9	23.3	1,313												
Kaduna	96.1	87.6	73.1	70.3	79.1	79.6	77.5	79.1	60.4	50.7	2,076												
Kano	75.3	59.5	33.1	30.3	50.4	54.4	55.7	54.7	31.5	16.8	2,389												
Katsina	75.0	54.6	42.2	37.9	46.9	52.5	61.5	41.5	29.7	18.5	1,950												
Kebbi	52.7	25.4	18.7	14.7	20.8	33.6	25.0	26.1	11.5	5.6	956												
Kogi	80.8	66.4	56.7	50.3	58.0	39.6	52.1	33.5	25.4	19.5	632												
Kwara	79.9	64.5	54.8	49.8	64.8	49.3	53.2	53.0	35.5	28.4	487												
Lagos	98.5	89.7	83.5	79.4	89.6	82.5	80.2	66.7	57.1	1,725	Nasarawa	87.1	68.1	58.7	52.4	69.5	61.9	51.5	60.4	36.8	25.7	738	
Niger	72.2	55.1	40.4	37.2	48.9	48.7	47.4	44.2	30.7	20.6	1,536												
Ogun	95.7	87.7	73.8	69.6	78.7	63.8	78.0	73.0	45.1	36.3	474												
Ondo	87.9	68.5	63.2	53.1	65.3	52.7	65.0	66.2	30.9	21.2	646												
Osun	95.2	72.0	69.0	59.0	80.4	51.8	73.2	58.2	39.8	28.1	638												
Oyo	84.9	73.3	64.0	58.6	65.8	47.1	59.3	55.0	32.3	26.4	1,042												
Plateau	72.6	66.7	54.8	52.3	61.6	51.8	49.2	63.3	37.5	30.2	1,317												
Rivers	96.6	86.4	79.5	75.1	89.6	76.3	67.3	86.7	55.4	45.9	803												
Sokoto	57.2	28.4	19.4	14.3	30.0	35.5	42.8	34.4	19.7	8.4	912												
Taraba	80.5	60.7	47.5	41.5	52.3	51.0	45.3	50.7	28.1	15.2	558												
Yobe	56.6	42.3	29.5	27.0	34.9	50.2	43.0	45.9	25.1	17.7	1,091												
Zamfara	87.5	66.3	46.8	44.9	54.5	64.8	61.0	56.4	36.0	27.1	1,337												
FCT-Abuja	95.9	72.0	71.2	58.5	64.9	70.9	70.6	71.1	44.8	36.9	340												

¹ MICS indicator 9.1; MDG indicator 6.3 - Knowledge about HIV prevention among young women

Table HA.1M: Knowledge about HIV transmission, misconceptions about HIV, and comprehensive knowledge about HIV transmission (men)

Percentage of men age 15-49 years who know the main ways of preventing HIV transmission, percentage who know that a healthy looking person can be HIV-positive, percentage who reject common misconceptions, and percentage who have comprehensive knowledge about HIV transmission, Nigeria, 2016-17

	Percentage who know transmission can be prevented by:		Percentage who know that HIV cannot be transmitted by:		Percentage who reject the two most common						
	Using a condom	Sharing a healthy-looking person	Having a healthy-looking partner	Having a healthy-looking partner	Using a condom	Sharing a healthy-looking person	Having a healthy-looking partner	Having a healthy-looking partner	Percentage of men age 15-49 years who have comprehensive knowledge ¹	Number of men	
Total	92.8	77.6	70.6	64.2	70.4	67.3	71.0	66.8	43.2	34.5	15,183
Geopolitical zone											
North Central	94.5	74.9	65.3	59.2	62.2	68.2	68.3	65.5	36.7	27.9	2,730
North East	93.5	77.0	73.4	64.0	74.8	74.4	78.6	79.3	59.8	47.1	2,943
North West	88.5	71.6	61.6	56.1	57.7	62.0	66.4	55.6	30.2	23.7	4,674
South East	98.3	84.6	79.0	72.5	83.4	68.9	66.8	74.8	50.1	40.1	984
South South	96.9	91.9	87.5	84.5	84.7	73.8	69.0	74.4	55.5	50.0	1,664
South West	93.6	80.3	75.8	69.0	84.9	62.4	77.6	66.0	44.0	34.3	2,189
Residence											
Urban	96.2	85.2	79.5	74.5	80.5	73.3	77.7	71.2	50.9	42.8	5,627
Rural	90.9	73.0	65.3	58.2	64.4	63.8	67.1	64.2	38.6	29.6	9,556
Age (years)											
15-24	89.4	70.2	64.6	57.1	63.8	61.8	65.6	61.5	37.1	27.9	5,887
15-19	86.9	66.1	59.9	52.8	59.5	59.1	61.1	57.7	33.7	24.8	3,508
20-24	93.0	76.3	71.6	63.6	70.1	65.9	72.3	67.1	42.1	32.4	2,378
25-29	95.1	81.1	73.7	67.6	73.3	71.4	75.5	69.8	46.7	38.0	2,191
30-39	95.3	83.0	75.6	69.9	75.7	71.6	74.4	70.9	48.1	39.9	4,014
40-49	94.6	81.9	73.2	68.1	73.9	69.3	73.9	69.3	45.9	37.5	3,092
Marital status											
Ever married/in union	94.8	81.1	72.6	66.6	72.9	69.1	73.8	69.2	44.7	36.2	7,423
Never married/in union	91.0	74.2	68.7	62.0	68.0	65.6	68.4	64.5	41.7	32.9	7,749
Education											
None	85.3	60.2	53.0	43.4	54.8	58.9	62.2	57.1	34.3	22.1	1,563
Non-formal	85.8	66.4	54.2	49.2	52.5	62.6	62.9	56.2	31.4	24.9	2,140
Primary	90.4	71.9	64.9	58.0	67.7	60.8	64.3	62.5	37.3	27.9	1,997
Secondary	95.1	81.4	74.9	68.7	74.0	66.8	72.2	68.2	42.9	34.3	6,861
Higher	99.1	91.1	87.4	82.1	86.6	82.5	85.1	80.6	63.1	55.1	2,622
Wealth index quintile											
Poorest	84.5	63.1	52.9	45.2	51.9	58.1	61.3	54.9	29.6	20.4	2,614
Second	89.3	70.6	60.6	53.3	59.4	61.2	67.4	62.2	34.3	24.5	2,901
Middle	94.3	77.7	71.6	64.8	69.7	68.4	71.3	68.9	43.8	35.4	2,927
Fourth	95.4	83.0	78.0	72.4	77.5	67.8	71.3	68.9	46.2	38.5	3,202

Richest	98.4	88.9	84.2	79.3	87.1	77.8	80.7	75.7	57.2	48.6	3,539
Ethnicity of household head											
Hausa	90.3	71.2	64.1	56.7	62.2	67.1	70.1	63.2	40.0	30.9	6,958
Igbo	98.4	87.4	82.1	76.6	85.1	72.3	71.8	72.1	49.8	41.5	1,488
Yoruba	94.2	79.6	75.4	68.1	83.8	62.0	75.8	68.1	44.6	34.8	1,980
Other ethnic group	94.3	82.9	74.5	69.8	72.1	68.3	70.2	69.8	45.1	37.3	4,757
¹ MICS indicator 9.1; MDG indicator 6.3 - Knowledge about HIV prevention among young men ^[M]											

Table HA.1M: Knowledge about HIV transmission, misconceptions about HIV, and comprehensive knowledge about HIV transmission (men) continued.

Percentage of men age 15-49 years who know the main ways of preventing HIV transmission, percentage who know that a healthy looking person can be HIV-positive, percentage who reject common misconceptions, and percentage who have comprehensive knowledge about HIV transmission, Nigeria, 2016-17

Percentage who know transmission can be prevented by: the two	Percentage who know that HIV cannot be transmitted by: reject
Having Percentage most common only one who know that misconceptions Percentage faithful Using a a healthy Sharing and know that a Percentage Number who have uninfected condom looking person food with healthy looking with of men heard of sex every can be HIV- Mosquito Supernatural someone person can be comprehensive age	

	AIDS	partner	time Both	positive	bites	means	with HIV	HIV-positive	knowledge ¹	15-49	
Total	92.8	77.6	70.6	64.2	70.4	67.3	71.0	66.8	43.2	34.5	15,183
State											
Abia	96.9	88.1	80.1	75.5	80.1	57.1	61.5	74.2	42.4	35.9	142
Adamawa	95.1	90.9	88.2	85.8	89.8	67.2	82.7	74.5	62.7	58.9	389
Akwa Ibom	96.5	91.6	85.2	82.4	72.7	72.2	69.4	70.2	41.7	36.5	365
Anambra	99.8	86.3	80.2	74.2	81.5	59.8	60.8	62.6	27.1	21.6	241
Bauchi	99.2	56.5	72.5	43.1	79.2	81.3	84.4	89.2	69.6	39.1	681
Bayelsa	86.2	72.6	72.1	63.9	74.5	66.8	57.9	63.0	47.6	36.5	121
Benue	99.6	90.7	67.7	61.8	82.5	71.6	77.4	55.6	40.4	32.7	481
Borno	99.7	94.8	90.8	89.5	81.8	90.2	93.0	92.8	72.3	68.4	813
Cross River	99.2	95.3	88.3	86.1	91.9	82.9	73.3	89.1	73.5	66.3	275
Delta	99.4	94.4	91.7	89.4	90.3	55.1	62.6	57.1	36.1	33.9	258
Ebonyi	96.2	74.5	72.2	62.8	85.8	87.7	79.2	83.9	72.6	51.9	152
Edo	90.9	84.7	77.8	74.1	76.8	74.2	69.5	52.6	40.9	34.5	209
Ekiti	95.6	85.7	84.2	77.3	81.8	42.9	66.8	70.6	32.6	26.7	96
Enugu	99.8	89.9	79.7	76.2	88.5	81.1	77.6	87.6	67.0	57.4	190
Gombe	85.3	76.2	60.9	56.8	61.3	62.9	70.5	64.8	43.3	33.8	268
Imo	97.7	83.1	80.6	72.3	81.8	64.1	60.1	71.8	50.2	40.1	260
Jigawa	64.3	53.5	43.1	40.4	44.9	42.8	44.3	37.4	23.9	20.1	534
Kaduna	95.2	69.3	70.3	62.2	48.9	70.2	73.5	47.6	21.0	16.4	898
Kano	91.9	72.3	65.3	57.5	64.7	66.8	73.0	64.2	37.0	27.4	1,028
Katsina	97.0	94.9	75.4	74.8	62.7	82.7	89.4	70.3	47.0	42.2	816
Kebbi	84.1	46.1	46.5	34.6	52.8	35.8	35.6	37.5	9.1	4.0	426
Kogi	84.0	71.1	52.4	49.3	56.9	29.6	68.4	37.5	18.9	14.8	275
Kwara	93.4	84.6	75.9	70.4	80.6	64.6	63.6	74.2	47.7	39.5	232
Lagos	99.6	97.5	86.5	85.8	96.7	82.9	90.7	65.6	53.6	44.4	808
Nasarawa	89.2	78.3	82.1	73.8	55.4	58.5	60.1	64.9	29.9	27.2	352
Niger	93.3	39.8	28.1	19.6	43.5	71.6	67.1	68.1	30.5	10.1	645
Ogun	88.7	78.3	77.3	71.3	84.2	59.0	76.1	70.4	48.9	42.9	206
Ondo	96.2	74.7	72.1	64.2	84.5	68.6	76.3	84.1	55.9	38.1	293
Osun	97.1	69.1	73.3	55.9	72.2	38.1	67.4	60.5	24.9	17.3	296
Oyo	81.7	61.6	59.6	49.7	74.2	45.1	65.5	56.3	32.8	23.7	490
Plateau	99.1	92.0	89.9	85.6	59.7	83.3	67.8	82.3	46.6	42.9	606
Rivers	100.0	97.4	95.2	93.0	93.4	82.2	72.5	92.4	76.3	71.7	436
Sokoto	72.9	60.9	38.7	36.2	39.1	45.8	55.0	56.5	16.4	8.4	358
Taraba	86.9	66.4	57.9	46.7	67.2	47.7	57.7	62.6	34.7	21.8	256
Yobe	82.9	71.2	50.9	48.1	58.0	65.4	60.3	65.0	46.4	34.9	537
Zamfara	95.2	82.3	64.6	60.4	77.7	58.8	62.1	61.3	38.5	29.4	613
FCT-Abuja	98.6	91.2	88.2	83.4	86.8	80.7	73.5	55.7	43.4	37.1	139
¹ MICS indicator 9.1; MDG indicator 6.3 - Knowledge about HIV prevention among young men ^[M]											

Table HA.2: Knowledge of mother-to-child HIV transmission (women)

Percentage of women age 15-49 years who correctly identify means of HIV transmission from mother to child, Nigeria, 2016-17

	Percentage of women age 15-49 who have heard of AIDS and:								
	Know HIV can be transmitted from mother to child:			Know HIV can be transmitted from mother to child: any of the specific			Do not know		Number of women age 15-49
	During special drugs	During special drugs to child	By three mother taking pregnancy	By at least one of the three means and that risk can be reduced by mother pregnancy delivery	By at least one of the three means and that risk can be reduced by transmission	By breastfeeding means	By breastfeeding means ¹	By all special drugs	
Total	57.7	58.1	64.7	69.5	50.7	0.0	0.0	13.8	34376
Geopolitical Zone									
North									6006
Central	54.3	57.4	64.9	69.8	48.7	0.0	0.0	11.4	
North East	50.7	53.3				0.0	0.0	15.1	6584
			57.9	62.5	45.1				
North West	53.4	53.7	57.6	62.1	47.7	0.0	0.0	15.6	10932
South East	65.5	62.4	74.5	79.4	55.9	0.0	0.0	13.2	2445
South South	70.3	67.1				0.0	0.0	7.9	3668
			82.2	87.1	58.7				
South West	67.5	66.5	71.8	77.6	59.3	0.0	0.0	15.7	4741
Residence									
Urban									
	67.7	68.2				0.0	0.0		12373
			73.1	79.4	59.4				
Rural	52.0	52.4	60.0	64.0	45.8	0.0	0.0	13.5	22003
Age group (Years)									
15-24									
	54.6	53.8				0.0	0.0		12637
			61.7	66.3	47.3				
15-19	51.5	50.7	58.7	62.8	44.6	0.0	0.0	15.5	6822
								17.0	
20-24	58.3	57.4	65.2	70.4	50.6	0.0	0.0	13.6	5816
25-29	58.9	60.1				0.0	0.0	12.6	5915
			66.3	71.5	51.8				

30-39	59.7	61.3	67.1	72.3	52.8	0.0	0.0	12.8	9729
40-49	59.5	60.0	65.6	69.9	53.3	0.0	0.0	13.3	6095
Marital status									
Ever married/in union	57.5	58.6				0.0	0.0		25778
			64.3	69.1	51.1				
Never married/in union	58.4	56.8	66.1	71.2	49.6	0.0	0.0	13.2	8520
Missing/ND	32.1	28.3				0.0	0.0	15.6	78
			34.0	34.7	27.8			15.1	
Education									7799
None	45.5	46.6	51.7	55.3	40.7	0.0	0.0	15.2	
Non-formal	45.9	46.9				0.0	0.0	17.2	5646
			49.6	53.5	41.4				
Primary	59.6	59.9	67.2	71.7	53.0	0.0	0.0	13.6	4963
Secondary	64.9	64.6	73.9	79.3	56.4	0.0	0.0	12.8	12466
Higher	75.1	76.0				0.0	0.0	9.0	3502
			81.7	89.5	64.8				
Wealth index quintile									
Poorest									
Second	39.4	39.3	45.3	47.9	35.2	0.0	0.0	15.6	6120
	48.8	49.6				0.0	0.0	16.5	6478
			55.4	58.9	43.8				
Middle	58.9	60.2	67.7	72.5	52.0	0.0	0.0	13.9	6708
Fourth	66.8	66.6	73.6	79.7	57.9	0.0	0.0	11.5	7053
Richest	69.6	70.1				0.0	0.0	12.3	8017
			76.8	83.3	60.8				
Ethnicity of household head									
Hausa	52.2	52.9	57.4	61.7	46.4	0.0	0.0	14.7	15920
Igbo	67.7	65.9				0.0	0.0	13.2	3558
			74.4	80.4	58.2				
Yoruba	67.4	66.0	71.4	77.7	58.6	0.0	0.0	15.6	4380

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Other ethnic group	58.5	60.1	69.8	74.3	51.4	0.0	0.0	11.9	10518
¹ MICS indicator 9.2 - Knowledge of mother-to-child transmission of HIV									

Multiple Indicator Cluster Survey 2016-2017



Table HA.2: Knowledge of mother-to-child HIV transmission (women) continued

Percentage of women age 15-49 years who correctly identify means of HIV transmission from mother to child, Nigeria, 2016-17

	Percentage of women age 15-49 who have heard of A and can be transmitted from mother to child:			-49 who have heard of A and know transmitted from child:					Number of women age 15-49
	During pregnancy	During delivery	By breastfeeding	By at least one of the three [1]	By all three mean mother taking special drugs	Know transmitted from child:		know any of the specific means of HIV	
						By at least one of the three means least and can be reduced by drugs	By breastfeeding and that risk can be reduced by transmission from mother to special child		
Total	57.7	58.1	64.7	69.5	50.7	0.0	0.0	13.8	34376
State									
Abia	76.1	71.3	81.3	86.5	65.8	0.0	0.0	10.0	336
Adamawa	53.3	55.2	62.1	65.9	48.0	0.0	0.0	17.8	830
Akwa Ibom	72.5	69.5	93.7	96.8	62.9	0.0	0.0	2.7	834
Anambra	68.7	66.4	74.3	78.8	60.2	0.0	0.0	18.2	608
Bauchi	47.7	51.2	60.5	64.9	41.8	0.0	0.0	16.7	1559
Bayelsa	72.8	74.6	82.2	85.9	64.9	0.0	0.0	8.9	260
Benue	69.3	70.4	78.4	81.2	65.1	0.0	0.0	17.5	956
Borno	76.0	79.0	79.2	84.7	70.0	0.0	0.0	5.9	1984
Cross River	66.6	64.1	88.7	91.8	52.0	0.0	0.0	6.5	693
Delta	61.1	58.7	69.4	73.9	52.9	0.0	0.0	14.7	584
Ebonyi	61.7	60.2	66.6	71.5	54.1	0.0	0.0	10.4	400
Edo	66.9	60.8	76.7	79.0	58.4	0.0	0.0	9.3	494
Ekiti	74.1	70.9	76.3	84.4	62.1	0.0	0.0	12.6	216
Enugu	58.7	60.1	66.3	72.0	52.8	0.0	0.0	13.7	495
Gombe	22.4	28.7	30.0	32.4	21.2	0.0	0.0	17.6	562
Imo	64.5	56.9	82.8	87.5	49.8	0.0	0.0	11.2	606

Jigawa	58.6	61.7	63.1	69.6	51.7	0.0	0.0	9.8	1313
Kaduna	79.0	76.9	82.7	87.0	72.3	0.0	0.0	9.1	2076
Kano	47.9	49.5	52.5	58.3	42.5	0.0	0.0	17.0	2389
Katsina	55.7	54.3	60.5	64.5	48.4	0.0	0.0	10.5	1950
Kebbi	21.2	21.8	22.1	28.2	15.7	0.0	0.0	24.5	956
Kogi	58.5	59.5	68.4	71.3	52.4	0.0	0.0	9.5	632
Kwara	58.1	58.7	57.8	61.4	55.0	0.0	0.0	18.6	487
Lagos	70.4	69.4	72.9	78.7	63.1	0.0	0.0	19.8	1725
Nasarawa	56.5	53.8	71.1	73.8	48.5	0.0	0.0	13.3	738
Niger	45.5	54.2	52.6	63.4	39.2	0.0	0.0	8.8	1536
Ogun	72.9	67.7	76.7	83.0	61.6	0.0	0.0	12.7	474
Ondo	65.7	68.6	76.6	79.6	59.5	0.0	0.0	8.3	646
Osun	73.4	75.4	80.5	86.0	66.6	0.0	0.0	9.2	638
Oyo	56.4	53.5	58.7	65.4	46.7	0.0	0.0	19.6	1042
Plateau	46.6	50.1	63.8	65.4	42.8	0.0	0.0	7.2	1317
Rivers	79.3	74.7	77.4	88.0	62.5	0.0	0.0	8.6	803
Sokoto	27.1	27.4	31.6	33.5	23.0	0.0	0.0	23.7	912
Taraba	51.0	49.9	64.1	69.1	40.6	0.0	0.0	11.3	558
Yobe	21.4	22.7	23.4	28.4	16.9	0.0	0.0	28.2	1091
Zamfara	56.0	57.3	61.0	62.8	53.2	0.0	0.0	24.7	1337
FCT-Abuja	63.4	65.6	76.6	83.7	52.7	0.0	0.0	12.2	340

[1] MICS indicator 9.2 - Knowledge of mother-to-child transmission of HIV

Table HA.2M: Knowledge of mother-to-child HIV transmission (men)

Percentage of men age 15-49 years who correctly identify means of HIV transmission from mother to child, Nigeria, 2016-17

Percentage of men age 15-49 who have heard of AIDS and:	
Know HIV can be transmitted from mother to child:	Do not know any of the
By at least one	specific means of HIV
During breastfeeding means	Number of men pregnancy delivery
During means	
By of the three means ¹	
By all three mother to child	
transmission from	
age 15-49	

Total	54.7	57.9	67.0	74.5	45.0	18.3	15,183
Geopolitical zone							
North Central	55.0	61.2	68.6	76.8	46.7	17.7	2,730
North East	62.1	67.6	76.2	80.0	56.9	13.5	2,943
North West	46.1	46.0	55.5	63.5	35.3	25.0	4,674
South East	54.7	56.2	65.8	76.5	41.9	21.8	984
South South	67.7	69.3	82.3	90.8	53.2	6.1	1,664
South West	52.8	58.2	66.2	74.5	42.7	19.1	2,189
Residence							
Urban	59.3	63.9	71.1	79.0	50.0	17.2	5,627
Rural	52.0	54.4	64.6	71.8	42.0	19.0	9,556
Age group							
15-24	49.8	52.6	62.8	69.7	40.6	19.7	5,887
15-19	48.1	50.9	60.0	65.9	39.7	21.0	3,508
20-24	52.3	55.1	67.1	75.2	42.0	17.8	2,378
25-29	57.8	61.1	69.2	77.7	47.1	17.4	2,191
30-39	57.7	61.5	69.6	77.6	47.6	17.7	4,014
40-49	58.0	61.1	70.0	77.4	48.4	17.3	3,092
Marital status							
Ever married/in union	56.5	59.8	68.4	76.4	46.4	18.4	7,423
Never married/in union	53.0	56.2	65.7	72.8	43.6	18.3	7,749
Education							
None	51.3	52.0	58.7	63.2	44.1	22.1	1,563
Non-formal	40.0	42.4	52.4	58.0	32.5	27.8	2,140
Primary	49.5	51.5	62.6	69.7	40.4	20.7	1,997
Secondary	57.5	61.2	71.2	79.0	47.1	16.1	6,861
Higher	65.3	70.5	76.2	86.7	53.5	12.4	2,622
Wealth index quintile							
Poorest	42.0	43.4	53.6	59.6	34.0	24.9	2,614
Second	49.6	53.9	62.9	68.9	42.4	20.5	2,901
Middle	56.1	57.8	69.2	76.5	45.5	17.8	2,927
Fourth	62.6	64.6	73.7	81.1	51.8	14.3	3,202
Richest	60.0	66.1	72.4	82.5	48.5	15.9	3,539
Ethnicity of household head							
Hausa	50.4	53.1	60.8	67.4	42.1	22.9	6,958
Igbo	54.6	58.6	67.2	77.8	42.0	20.6	1,488
Yoruba	57.1	60.5	67.6	77.0	45.5	17.2	1,980
Other ethnic group	60.1	63.6	75.8	82.8	49.9	11.5	4,757
¹ MICS indicator 9.2 - Knowledge of mother-to-child transmission of HIV ^[M]							

Table HA.2M: Knowledge of mother-to-child HIV transmission (men) continued.

Percentage of men age 15-49 years who correctly identify means of HIV transmission from mother to child, Nigeria, 2016-17

Percentage of men age 15-49 who have heard of AIDS and:	
Know HIV can be transmitted from mother to child:	Do not know any of the specific means of HIV transmission from pregnancy delivery breastfeeding
By at least one	
During During By of the three By all three	
means means ¹ mother to child age 15-49	Number of men

Total	54.7	57.9	67.0	74.5	45.0	18.3	15,183
State							
Abia	77.6	68.6	77.8	91.7	52.7	5.2	142
Adamawa	68.5	71.2	77.5	85.7	57.9	9.4	389
Akwa Ibom	68.2	59.2	75.0	87.6	48.3	8.9	365
Anambra	43.7	45.2	41.8	47.7	39.6	52.1	241
Bauchi	75.7	81.5	87.4	88.5	73.8	10.7	681
Bayelsa	56.0	51.1	59.2	69.0	38.5	17.2	121
Benue	85.6	86.4	86.6	93.8	77.8	5.8	481
Borno	79.9	90.3	95.1	97.9	77.1	1.8	813
Cross River	66.3	57.3	92.0	95.2	50.5	4.0	275
Delta	80.9	72.2	82.2	92.5	62.1	6.9	258
Ebonyi	38.4	55.1	58.6	72.3	29.3	23.9	152
Edo	46.0	69.7	71.7	84.4	35.7	6.5	209
Ekiti	66.6	68.4	66.9	82.5	48.9	13.1	96
Enugu	65.0	61.8	79.9	89.7	52.4	10.1	190
Gombe	51.7	56.3	59.4	63.5	46.9	21.8	268
Imo	54.3	56.2	75.2	87.6	37.6	10.2	260
Jigawa	30.2	31.0	32.3	36.3	27.3	28.0	534
Kaduna	54.7	42.7	62.8	72.2	32.2	23.0	898
Kano	41.8	44.9	48.0	55.3	34.2	36.6	1,028
Katsina	46.0	53.7	65.1	69.8	41.7	27.2	816
Kebbi	46.7	48.2	51.2	70.1	26.2	14.0	426
Kogi	46.6	46.3	44.7	51.0	40.0	33.0	275
Kwara	80.8	81.6	71.6	85.8	66.4	7.6	232
Lagos	50.8	59.2	71.1	80.3	41.1	19.3	808
Nasarawa	51.9	52.9	76.7	80.7	43.1	8.6	352
Niger	42.0	48.0	42.9	58.6	31.2	34.7	645
Ogun	66.6	49.3	72.3	77.6	43.8	11.1	206
Ondo	64.0	81.5	82.5	86.0	62.6	10.2	293
Osun	57.4	57.1	63.6	73.0	47.0	24.1	296
Oyo	38.2	45.3	47.1	56.1	29.2	25.6	490
Plateau	40.1	60.1	88.7	91.6	34.5	7.5	606
Rivers	73.8	88.6	93.6	98.6	66.3	1.4	436
Sokoto	29.6	31.5	44.7	53.2	19.9	19.7	358
Taraba	47.6	53.1	74.3	78.7	38.4	8.2	256
Yobe	25.4	25.4	41.6	46.8	17.7	36.1	537
Zamfara	64.3	62.8	74.1	81.3	55.5	13.9	613
FCT-Abuja	56.3	57.2	59.7	63.4	53.0	35.1	139
¹ MICS indicator 9.2 - Knowledge of mother-to-child transmission of HIV ^[M]							

Accepting Attitudes toward People Living with HIV

Table HA.3: Accepting attitudes toward people living with HIV (women)

Percentage of women age 15-49 years who have heard of AIDS who express an accepting attitude towards people living with HIV, Nigeria, 2016-17

	Percentage of women who:					Percent of women who:				AIDS
	Are home	Would positive	Believe that teaching	Would positive	children willing attitude	buy fresh	Think a female not negative	living with HIV [a]		
Total	71.2	45.7	59.6	34.2	91.3	8.3	0.0	0.0	28,656	
Geopolitical Zone										
North Central	78.9	49.3	62.6	36.0	91.5	11.1	0.0	0.0	4,877	
North East	78.1	53.9	67.7	27.0	95.5	5.9	0.0	0.0	5,112	
North West	71.0	49.4	62.2	36.5	90.9	11.3	0.0	0.0	8,493	
South East	70.3	40.1	49.3	30.4	90.2	3.9	0.0	0.0	2,265	
South South	75.0	45.7	61.6	35.3	94.4	8.8	0.0	0.0	3,487	
South West	52.8	28.1	45.6	37.2	85.1	4.2	0.0	0.0	4,422	
Urban	72.0	47.3	62.1	30.6	91.7	8.1	0.0	0.0	11,495	
Rural	70.7	44.7	57.9	36.6	91.0	8.5	0.0	0.0	17,161	
Age group (Years)										
15-24	72.3	45.0	60.8	33.0	91.9	8.0	0.0	0.0	10,331	
15-19	70.9	43.0	59.9	33.4	91.3	8.1	0.0	0.0	5,445	
20-24	73.8	47.3	61.7	32.5	92.5	7.9	0.0	0.0	4,886	
25-29	72.1	47.4	59.9	34.6	91.3	8.9	0.0	0.0	4,975	
30-39	69.7	45.7	59.1	34.5	90.7	8.0	0.0	0.0	8,279	
40-49	70.7	45.5	57.7	35.9	91.0	9.0	0.0	0.0	5,071	
Marital status										
Ever married/in union	70.2	45.4	58.4	35.0	90.8	8.2	0.0	0.0	21,219	
Never married/in union	74.3	46.7	63.0	32.0	92.8	8.7	0.0	0.0	7,399	

Missing/ND	52.8	37.2	36.5	23.1	69.5	4.9	0.0	0.0	39
		Education							
None	69.0	43.8	54.8	35.1	88.8	7.6	0.0	0.0	5,502
Non-formal	65.7	41.1	56.9	36.3	89.2	7.5	0.0	0.0	3,995
Primary	71.1	42.0	55.8	36.0	90.7	8.5	0.0	0.0	4,235
Secondary	72.0	45.4	59.9	34.0	91.9	8.2	0.0	0.0	11,478
Higher	78.8	59.9	74.2	28.6	96.0	10.8	0.0	0.0	3,447
Wealth index quintile									
Poorest	65.7	41.5	52.7	37.9	87.4	9.1	0.0	0.0	3,887
Second	70.3	43.7	55.2	37.5	90.6	8.5	0.0	0.0	4,882
Middle	72.5	46.0	59.8	35.6	92.2	8.2	0.0	0.0	5,796
Fourth	72.6	46.6	61.9	31.5	92.4	7.3	0.0	0.0	6,431
Richest	72.5	48.2	63.8	31.4	92.0	8.8	0.0	0.0	7,660
Ethnicity of household head									
Hausa	71.3	48.1	62.1	34.5	91.2	9.6	0.0	0.0	12,168
Igbo	68.9	40.5	51.9	31.7	90.0	5.4	0.0	0.0	3,327
Yoruba	56.2	31.5	47.2	35.2	86.1	4.4	0.0	0.0	4,088
Other ethnic group	78.8	50.8	64.6	34.1	94.1	9.4	0.0	0.0	9,073
1 MICS indicator 9.3 - Accepting attitudes towards people living with HIV									

Table HA.3: Accepting attitudes toward people living with HIV (women) continued

Percentage of women age 15-49 years who have heard of AIDS who express an accepting attitude towards people living with HIV, Nigeria, 2016-17

Percent of women who:		Percent of women who:	
Believe that a female	Would	Think children	
Would buy teacher who not want living with fresh is HIV- to keep Express HIV should Number			
Are willing to vegetables positive and secret accepting be able to Report of care for a from a is not sick that a Agree attitudes attend			
discriminatory women family shopkeeper should be family with at on all school with attitudes who			
member with or vendor allowed to member least one four children who towards have			
AIDS in own who is HIV- continue is HIV- accepting indicators are HIV- people living heard home positive teaching positive attitude			
[1] negative with HIV [a] of AIDS			

Total	71.2	45.7	59.6	34.2	91.3	8.3	State	0.0	0.0	28656
Abia	78.7	29.9	49.7	33.9	95.5	3.9		0.0	0.0	324
Adamawa	80.8	66.8	66.5	14.3	95.8	3.2		0.0	0.0	695
Akwa Ibom	81.3	53.4	65.7	40.6	97.1	12.1		0.0	0.0	830
Anambra	73.1	48.5	57.2	17.0	90.9	1.7		0.0	0.0	590
Bauchi	78.6	50.4	65.7	35.4	94.4	11.7		0.0	0.0	1271
Bayelsa	65.6	31.6	59.5	48.4	94.4	8.6		0.0	0.0	247
Benue	90.1	70.1	77.9	30.2	97.4	14.4		0.0	0.0	944
Borno	73.1	50.2	68.4	26.1	96.4	1.7		0.0	0.0	1798
Cross River	85.2	59.0	72.4	28.8	98.1	9.7		0.0	0.0	681
Delta	66.0	33.5	54.5	45.9	93.1	6.6		0.0	0.0	517
Ebonyi	66.7	48.6	55.2	25.7	89.5	2.2		0.0	0.0	328
Edo	77.7	45.0	63.8	11.0	89.7	2.1		0.0	0.0	436
Ekiti	42.7	34.4	49.0	48.6	89.3	2.4		0.0	0.0	209
Enugu	66.8	41.4	45.6	25.6	85.5	3.0		0.0	0.0	425
Gombe	79.6	57.0	67.2	22.4	93.2	4.6		0.0	0.0	281
Imo	67.4	31.9	40.9	47.5	90.2	7.7		0.0	0.0	599
Jigawa	62.6	54.3	60.5	28.8	91.6	3.0		0.0	0.0	1042
Kaduna	85.1	69.4	84.2	39.5	97.7	26.9		0.0	0.0	1995
Kano	77.9	46.1	64.9	34.3	96.0	7.2		0.0	0.0	1799
Katsina	70.7	50.4	56.9	46.2	91.5	12.1		0.0	0.0	1463
Kebbi	37.8	23.3	34.6	20.2	62.1	1.9		0.0	0.0	504
Kogi	79.4	28.6	50.1	55.2	97.8	7.7		0.0	0.0	510
Kwara	73.7	44.9	50.5	11.4	83.2	1.9		0.0	0.0	390
Lagos	53.9	29.1	51.0	37.3	86.6	6.1		0.0	0.0	1699

Nasarawa	91.3	57.9	72.5	38.2	98.5	11.4	0.0	0.0	643
Niger	59.2	34.5	45.5	31.0	80.1	2.0	0.0	0.0	1109
Ogun	55.8	22.8	40.3	36.8	84.2	3.9	0.0	0.0	453
Ondo	71.9	29.1	42.2	34.1	91.5	3.2	0.0	0.0	568
Osun	45.6	24.7	38.2	29.6	76.9	1.0	0.0	0.0	608
Oyo	44.2	29.0	44.3	41.7	83.0	3.9	0.0	0.0	885
Plateau	86.8	52.4	70.6	47.1	94.3	23.9	0.0	0.0	956
Rivers	67.0	38.8	51.9	37.9	91.9	9.7	0.0	0.0	776
Sokoto	38.0	20.7	41.0	44.8	75.6	4.8	0.0	0.0	522
Taraba	80.6	54.9	63.2	23.1	96.5	2.3	0.0	0.0	449
Yobe	86.2	55.3	74.5	31.5	95.1	12.2	0.0	0.0	617
Zamfara	73.1	38.5	50.0	32.4	89.1	4.6	0.0	0.0	1170
FCT-Abuja	70.9	51.0	68.0	32.6	91.2	10.6	0.0	0.0	326

[1] MICS indicator 9.3 - Accepting attitudes towards people living with HIV

[a] This is a composite of those who respond 'No' or Don't know / Not sure / Depends to any of the two situations in columns 2 and 7 (buying vegetables and attending school)

Table HA.3M: Accepting attitudes toward people living with HIV (men)

Percentage of men age 15-49 years who have heard of AIDS who express an accepting attitude towards people living with HIV, Nigeria, 2016-17

Percentage of men who:	
Would buy	Would not
Are willing to care for a family member with AIDS in own vendor who is positive teaching HIV-positive attitude	Believe that a female teacher who is HIV- positive and is not sick should be allowed to continue member is accepting attitudes on all have heard of home HIV- positive teaching HIV-positive attitude four indicators ¹ AIDS
fresh vegetables from a shopkeeper or	Express at least one accepting attitude on all have heard of home HIV- positive teaching HIV-positive attitude four indicators ¹ AIDS
Number of men age 15-49 who	

Total	74.7	55.3	64.8	42.9	95.3	14.3	14,097
Geopolitical zone							
North Central	76.9	53.8	69.0	38.3	94.5	11.0	2,580
North East	91.3	71.1	76.8	43.6	97.8	24.9	2,752
North West	71.3	52.9	61.6	37.9	93.8	12.7	4,137
South East	84.9	55.2	58.4	35.8	95.7	11.3	967
South South	84.5	58.6	63.9	47.6	96.9	18.4	1,612
South West	44.3	37.9	53.5	57.5	94.5	5.6	2,049
Residence							
Urban	72.8	60.1	69.8	40.0	95.9	12.4	5,412
Rural	76.0	52.2	61.7	44.7	94.9	15.4	8,685
Age (years)							
15-24	73.2	50.1	61.9	41.7	94.5	12.2	5,260
15-19	70.7	48.0	59.4	40.3	93.4	10.3	3,049
20-24	76.5	53.0	65.3	43.7	96.0	14.9	2,211
25-29	74.5	58.2	67.2	43.0	95.9	14.4	2,084
30-39	76.5	57.5	66.9	42.4	95.3	15.3	3,827
40-49	75.4	59.5	65.4	45.6	96.2	16.6	2,926
Marital status							
Ever married/in union	74.9	56.1	64.0	45.4	95.6	16.0	7,039
Never married/in union	74.6	54.4	65.5	40.4	95.0	12.6	7,053
Education							
None	72.4	50.4	56.9	52.9	93.3	20.7	1,334
Non-formal	69.7	49.1	57.9	38.0	92.8	10.9	1,836
Primary	73.2	49.1	57.6	45.3	94.1	14.4	1,806
Secondary	74.3	53.3	64.0	43.0	95.8	12.5	6,522
Higher	81.6	71.3	80.6	39.3	97.6	17.9	2,599
Wealth index quintile							
Poorest	71.3	45.1	54.3	46.4	92.7	14.6	2,209
Second	75.6	53.1	62.3	46.1	95.0	16.8	2,591
Middle	78.6	56.6	65.6	40.4	95.4	14.9	2,761
Fourth	76.2	57.8	68.3	38.9	96.1	12.3	3,055
Richest	71.9	60.0	69.5	43.8	96.5	13.5	3,481
Ethnicity of household head							
Hausa	76.0	56.6	65.3	40.9	94.4	16.8	6,281
Igbo	77.3	57.2	62.8	41.3	96.3	11.8	1,464
Yoruba	48.7	38.6	54.0	53.2	93.8	6.3	1,865
Other ethnic group	82.9	59.6	69.1	41.9	96.8	14.9	4,487
¹ MICS indicator 9.3 - Accepting attitudes towards people living with HIV ^[M]							

Table HA.3M: Accepting attitudes toward people living with HIV (men) continued.

Percentage of men age 15-49 years who have heard of AIDS who express an accepting attitude towards people living with HIV, Nigeria, 2016-17

Percentage of men who:							
	Are willing to care for a family member with shopkeeper or positive AIDS in own vendor who is continue teaching	Would buy fresh vegetables from a teacher who is HIV-positive attitude	Believe that a female teacher who is HIV-positive attitude	Would not secret that a family member is accepting attitudes on all four indicators ¹	Agree with at least one	Express accepting attitudes on all	Number of men age 15-49 who have home HIV-positive
Total	74.7	55.3	64.8	42.9	95.3	14.3	14,097
State							
Abia	67.3	27.3	31.6	37.0	83.9	4.0	137
Adamawa	90.9	77.6	81.6	29.2	99.1	17.2	370
Akwa Ibom	88.2	54.6	58.3	43.5	98.9	16.8	352
Anambra	98.3	71.8	60.2	14.8	100.0	2.8	240
Bauchi	94.3	66.5	72.1	93.9	98.6	62.2	676
Bayelsa	54.1	37.8	50.9	58.7	91.8	14.7	104
Benue	86.0	85.1	89.0	14.6	99.4	3.1	479
Borno	98.8	90.7	94.3	1.2	100.0	0.0	810
Cross River	95.8	70.5	63.5	71.3	99.5	33.1	273
Delta	65.3	38.0	39.9	57.0	89.8	13.5	257
Ebonyi	78.0	41.7	64.2	43.5	93.7	11.0	146
Edo	73.4	73.9	78.0	22.2	96.5	2.9	190
Ekiti	68.6	50.4	53.9	18.8	91.3	1.8	92
Enugu	95.7	63.5	65.8	47.5	99.8	29.0	189
Gombe	90.3	62.5	69.0	43.2	98.3	24.3	229
Imo	77.9	56.3	62.2	42.1	95.9	10.1	254
Jigawa	72.2	46.9	56.6	28.1	88.9	4.3	344
Kaduna	54.4	42.7	55.2	49.8	96.0	8.6	855
Kano	75.7	67.3	74.5	43.1	96.8	21.3	945
Katsina	92.6	53.6	63.6	25.2	98.3	14.7	791
Kebbi	57.3	54.8	58.7	36.6	93.7	6.8	359
Kogi	69.7	27.6	40.3	51.4	88.9	10.2	231
Kwara	72.7	50.1	61.6	40.3	93.4	9.4	217
Lagos	44.5	52.3	60.4	69.6	96.9	10.9	805
Nasarawa	96.6	58.2	85.7	36.7	99.5	18.6	314
Niger	56.6	35.8	43.6	43.0	86.2	5.0	602
Ogun	40.5	20.7	38.6	63.7	91.5	7.2	182
Ondo	54.5	20.0	47.0	36.6	92.4	0.0	282
Osun	33.7	27.2	48.1	61.8	93.4	3.0	288
Oyo	40.5	34.5	55.0	50.6	93.9	0.7	401
Plateau	80.5	55.2	80.8	52.7	97.7	21.0	601
Rivers	97.8	64.9	79.5	39.0	99.4	20.8	436
Sokoto	82.3	39.9	54.8	62.8	97.3	14.6	261
Taraba	83.2	51.2	48.4	36.2	94.8	8.7	222
Yobe	78.2	51.3	66.0	60.3	92.8	28.6	445
Zamfara	63.0	51.8	54.8	24.9	81.3	9.7	584
FCT-Abuja	91.8	57.3	81.1	15.9	98.6	7.2	137

¹ MICS indicator 9.3 - Accepting attitudes towards people living with HIV^[M]

Knowledge of a Place for HIV Testing, Counselling and Testing during Antenatal Care

Table HA.4: Knowledge of a place for HIV testing (women)

Percentage of women age 15-49 years who know where to get an HIV test, percentage who have ever been tested, percentage who have ever been tested and know the result of the most recent test, percentage who have been tested in the last 12 months, and percentage who have been tested in the last 12 months and know the result, Nigeria, 2016-17

Percentage of women who:																				
	Have																			
	Know a place to get an HIV test	Have ever been tested	Have ever been tested and know the result of the most recent test	Have been tested in the last 12 months	Have been tested in the last 12 months and know the result	Number of women tested ¹	Tested recent test 12 months the result ^{2,3}	age 15-49												
Total	60.4	40.8		34.8	17.5		15.1			34,376										
Geopolitical zone																				
North Central	62.9	46.0		40.4	21.1		18.9			6,006										
North East	53.8	34.0	30.9	12.2	11.1	6,584	North West	48.3	25.6	18.7	10.6	7.8	10,932	South East	76.0	58.6	48.7	22.1	19.3	2,445
South South	78.7	59.6		53.0	28.9		26.2			3,668										
South West	72.2	55.0		48.6	24.7		22.0			4,741										
Residence																				
Urban	76.3	53.8		47.2	23.4		21.0			12,373										
Rural	51.5	33.5		27.7	14.1		11.8			22,003										
Age (years)																				
15-24	54.4	27.9	23.1	14.1	12.1	12,637	15-19	48.5	17.5	14.4	9.2	7.9	6,822							
20-24	61.2	40.1		33.2	20.0		17.0			5,816										
25-29	65.4	50.3		42.8	24.0		20.6			5,915										
30-39	65.1	51.0		43.9	20.2		17.4			9,729										
40-49	60.6	41.9		36.7	13.7		12.5			6,095										
Age and sexual activity in the last 12 months																				
Sexually active	61.9	45.9		38.9	19.7		16.9			26,331										
15-24 ³	56.7	38.6		31.3	19.9		16.7			6,646										
15-19	50.2	29.2		23.0	16.2		13.2			2,132										
20-24	59.7	43.0	35.3	21.7	18.4	4,514	25-49	63.7	48.4	41.4	19.6	17.0	19,685	Sexually inactive	55.4	24.1	21.4	10.2	9.3	8,045
Marital status																				
Ever married/in union	60.6	45.3		38.2	18.7		16.0			25,778										
Never married/in union	60.2	27.4		24.5	13.8		12.7			8,520										
Education																				
None	38.8	23.5		18.0	9.5		7.0			7,799										
Non-formal	40.5	19.2		14.6	6.8		5.2			5,646										
Primary	63.1	43.9	36.4	16.6	14.4	4,963	Secondary	72.6	49.2	42.9	22.0	19.5	12,466							
Higher	93.5	79.7		73.4	37.8		34.9			3,502										
Wealth index quintile																				
Poorest	29.9	13.6		10.2	5.6		4.1			6,120										
Second	45.7	26.2		21.0	11.0		9.0			6,478										
Middle	61.4	39.4		31.8	16.5		13.7			6,708										
Fourth	73.2	52.5		45.5	22.2		19.4			7,053										
Richest	83.5	64.1		57.6	28.4		26.0			8,017										
Ethnicity of household head																				

Hausa	47.1	25.9	20.1	10.1	7.8	15,920	Igbo	78.4	61.7	53.1	26.1	23.5	3,558		
Yoruba								71.7	52.4			45.4	22.5	19.3	4,380
Other ethnic group								69.7	51.5			46.3	23.7	21.7	10,518

¹ MICS indicator 9.4 - Women who know where to be tested for HIV

² MICS indicator 9.5 - Women who have been tested for HIV and know the results ³ MICS indicator 9.6 - Sexually active young women who have been tested for HIV and know the results

Table HA.4: Knowledge of a place for HIV testing (women) continued.

Percentage of women age 15-49 years who know where to get an HIV test, percentage who have ever been tested, percentage who have ever been tested and know the result of the most recent test, percentage who have been tested in the last 12 months, and percentage who have been tested in the last 12 months and know the result, Nigeria, 2016-17

Percentage of women who:						
	Have			Number of women tested ¹		
	Know a ever tested in the last 12 months ^{2,3}	Have ever been tested and know the result ^{2,3}	tested in the last 12 months	tested recent	test 12 months	the result ^{2,3} age 15-49
Total	60.4	40.8	34.8	17.5	15.1	34,376
State						
Abia	76.5	55.4	44.3	21.2	17.2	336
Adamawa	61.0	48.8	44.3	24.9	22.9	830
Akwa Ibom	80.5	64.8	57.2	42.6	39.3	834
Anambra	85.4	65.5	45.7	21.4	17.9	608
Bauchi	38.8	23.9	20.5	7.9	7.0	1,559
Bayelsa	78.6	50.5	43.0	22.0	18.2	260
Benue	84.7	69.2	63.1	45.4	42.2	956
Borno	70.9	42.8	39.6	10.9	9.7	1,984
Cross River	86.9	67.6	64.1	34.2	32.2	693
Delta	66.2	45.1	35.9	20.2	16.3	584
Ebonyi	54.9	37.5	33.7	14.6	13.7	400
Edo	76.7	56.9	51.5	17.7	16.1	494
Ekiti	77.6	55.3	39.1	19.1	14.5	216
Enugu	72.1	58.7	55.5	20.7	19.8	495
Gombe	38.5	30.9	27.5	14.0	12.4	562
Imo	83.2	67.4	58.6	29.3	25.2	606
Jigawa	39.7	10.5	3.3	6.4	1.1	1,313
Kaduna	90.0	63.0	52.1	25.0	20.9	2,076
Kano	44.7	25.6	15.4	10.7	6.9	2,389
Katsina	42.2	20.5	13.7	8.3	6.2	1,950
Kebbi	17.6	8.7	7.2	4.4	4.1	956
Kogi	44.2	36.7	33.9	13.0	11.7	632
Kwara	59.6	40.0	36.5	10.9	10.1	487
Lagos	86.8	73.4	70.0	36.0	34.9	1,725

Nasarawa	72.2	56.6	36.5	25.5	18.1	738
Niger	49.3	25.3	23.5	6.7	6.1	1,536
Ogun	67.1	49.2	38.5	19.0	15.3	474
Ondo	62.8	41.9	32.1	19.5	13.4	646
Osun	60.0	37.2	33.6	16.3	14.7	638
Oyo	62.6	46.2	39.3	18.1	14.8	1,042
Plateau	62.1	47.6	44.8	21.0	20.2	1,317
Rivers	79.9	62.5	55.8	25.8	23.6	803
Sokoto	14.7	8.0	6.9	3.0	2.4	912
Taraba	57.5	37.2	33.9	14.5	13.1	558
Yobe	44.8	21.0	20.1	9.1	9.0	1,091
Zamfara	52.3	13.6	11.7	5.4	4.5	1,337
FCT-Abuja	84.8	70.8	61.7	38.0	33.9	340
¹ MICS indicator 9.4 - Women who know where to be tested for HIV ² MICS indicator 9.5 - Women who have been tested for HIV and know the results ³ MICS indicator 9.6 - Sexually active young women who have been tested for HIV and know the results						

Table HA.4M: Knowledge of a place for HIV testing (men)

Percentage of men age 15-49 years who know where to get an HIV test, percentage who have ever been tested, percentage who have ever been tested and know the result of the most recent test, percentage who have been tested in the last 12 months, and percentage who have been tested in the last 12 months and know the result, Nigeria, 2016-17

Percentage of men who:

Know a place to get an HIV test¹ | Have ever been tested² | Have been tested in the last 12 months³ | Have been tested in the last 12 months and know the result^{2,3} | Men age 15-49

Total	70.8	33.5	30.5	16.4	15.1	15,183
Geopolitical zone						
North Central	76.7	47.5	43.7	28.9	27.0	2,730
North East	82.1	24.5	21.7	12.0	10.7	2,943
North West	54.6	14.6	12.5	7.4	6.6	4,674
South East	86.3	53.8	50.8	17.9	16.7	984
South South	84.6	55.6	53.6	27.4	26.6	1,664
South West	65.4	42.7	37.9	16.7	14.6	2,189
Residence						
Urban	79.0	42.2	38.7	19.3	17.5	5,627
Rural	66.0	28.4	25.7	14.7	13.6	9,556
Age (years)						
15-24	62.3	18.6	16.1	10.7	9.5	5,887
25-29	74.2	37.7	35.1	18.8	17.6	2,191
30-39	77.8	46.6	43.3	21.9	20.4	4,014
40-49	75.5	42.0	38.2	18.4	16.8	3,092
Age and sexual activity in the last 12 months						
Sexually active	75.9	43.3	40.0	20.1	18.8	9,058
15-24 ³	71.3	35.2	32.1	18.4	17.2	1,217
15-19	58.1	22.5	20.5	14.1	13.7	318
20-24	76.0	39.7	36.2	19.9	18.5	899
25-49	76.6	44.6	41.2	20.4	19.0	7,840
Sexually inactive	63.3	19.0	16.6	10.9	9.6	6,125
Marital status						
Ever married/in union	74.6	41.8	38.2	18.9	17.4	7,423
Never married/in union	67.2	25.6	23.2	14.0	12.8	7,749
Education						
None	57.6	13.3	10.5	6.2	5.0	1,563
Non-formal	52.4	7.1	5.7	2.5	2.2	2,140
Primary	63.0	28.5	24.9	12.2	10.9	1,997
Secondary	73.9	35.4	32.3	17.8	16.2	6,861
Higher	91.5	65.9	62.3	33.4	31.7	2,622
Wealth index quintile						
Poorest	54.8	11.5	9.9	6.2	5.8	2,614
Second	61.3	22.1	19.0	12.0	10.6	2,901
Middle	69.9	29.2	26.1	14.7	13.5	2,927
Fourth	76.5	41.1	38.0	20.3	18.7	3,202
Richest	86.0	55.8	52.1	25.4	23.6	3,539
Ethnicity of household head						
Hausa	63.3	16.5	14.3	7.4	6.5	6,958
Igbo	86.9	56.6	53.3	22.3	21.0	1,488
Yoruba	65.8	41.1	35.9	15.9	13.5	1,980
Other ethnic group	78.8	47.9	45.0	28.0	26.3	4,757
¹ MICS indicator 9.4 - Men who know where to be tested for HIV ²						
^[M] MICS indicator 9.5 - Men who have been tested for HIV and know the results ³ ^[M]						
MICS indicator 9.6 - Sexually active young men who have been tested for HIV and know the results						

Table HA.4M: Knowledge of a place for HIV testing (men) continued.

Percentage of men age 15-49 years who know where to get an HIV test, percentage who have ever been tested, percentage who have ever been tested and know the result of the most recent test, percentage who have been tested in the last 12 months, and percentage who have been tested in the last 12 months and know the result, Nigeria, 2016-17

Percentage of men who:

Have	Know a ever	Have ever been tested and	Have been	Have been tested in the place to get	been know the result
of the most	tested in the last	last 12 months and know	Number of men tested ¹	tested recent test	12 months the
result ^{2, 3}	age 15-49				

Total	70.8	33.5	30.5	16.4	15.1	15,183
State						
Abia	82.6	44.1	42.7	18.3	17.3	142
Adamawa	69.2	37.7	24.6	25.0	18.6	389
Akwa Ibom	75.6	47.1	44.5	14.1	12.3	365
Anambra	94.5	47.2	47.2	2.7	2.7	241
Bauchi	95.0	18.3	17.5	7.0	6.5	681
Bayelsa	74.7	45.5	42.1	16.5	15.8	121
Benue	97.1	85.8	83.6	81.7	80.5	481
Borno	97.7	25.2	24.3	10.0	9.5	813
Cross River	85.2	53.2	53.2	37.1	37.1	275
Delta	81.0	47.6	43.5	18.1	17.8	258
Ebonyi	85.5	62.7	55.2	20.9	18.8	152
Edo	82.8	45.9	42.4	22.9	21.0	209
Ekiti	70.5	48.6	33.7	22.7	17.4	96
Enugu	90.2	59.1	58.0	14.9	14.6	190
Gombe	71.3	21.9	19.9	7.8	7.4	268
Imo	78.4	56.1	50.9	32.2	29.5	260
Jigawa	46.2	4.5	4.5	1.5	1.5	534
Kaduna	48.1	26.5	24.4	12.1	11.3	898
Kano	47.0	12.6	9.9	7.1	5.8	1,028
Katsina	68.2	8.0	5.7	3.4	3.1	816
Kebbi	60.9	15.0	12.6	9.7	8.2	426
Kogi	44.7	36.0	33.8	17.2	16.2	275
Kwara	81.4	42.6	32.6	16.4	10.7	232
Lagos	87.0	64.5	61.3	23.9	22.2	808
Nasarawa	71.9	54.6	47.7	35.1	31.2	352
Niger	59.4	20.1	14.5	8.9	6.5	645
Ogun	56.3	29.8	25.8	11.1	9.2	206
Ondo	53.3	20.4	17.8	10.4	8.8	293
Osun	59.0	31.1	23.7	12.9	9.1	296
Oyo	43.7	31.3	25.6	12.3	10.4	490
Plateau	90.3	46.1	45.7	13.6	13.3	606
Rivers	97.5	76.2	75.8	43.1	43.0	436
Sokoto	56.4	17.9	13.4	7.4	5.0	358
Taraba	70.9	46.9	43.5	28.3	27.8	256
Yobe	62.4	12.3	11.7	6.3	5.9	537
Zamfara	60.4	15.6	14.5	10.2	9.8	613
FCT-Abuja	94.9	62.0	60.7	34.3	33.5	139
<p style="text-align: center;">1 MICS indicator 9.4 - Men who know where to be tested for HIV ^[M]</p> <p style="text-align: center;">MICS indicator 9.5 - Men who have been tested for HIV and know the results ³ [M]</p> <p style="text-align: center;">MICS indicator 9.6 - Sexually active young men who have been tested for HIV and know the results</p>						

Table HA.5: HIV counselling and testing during antenatal care

Percentage of women age 15-49 with a live birth in the last 2 years who received antenatal care from a health professional during the last pregnancy, percentage who received HIV counselling, percentage who were offered and tested for HIV, percentage who were offered, tested and received the results of the HIV test, and percentage who received counselling and were offered, accepted and received the results of the HIV test, Nigeria, 2016-17

Percentage of women who:							
from a health	Received counselling during care professional care the results ²	HIV antenatal were tested for results years	Received HIV test and HIV during care, and received	Were offered an HIV test and were accepted and received the	Were offered an HIV test, 15-49 with a live birth in	Received HIV counselling, 15-49 with a live birth in	Number of women age antenatal care ¹ antenatal
Total	65.8	41.0	40.1	34.7	31.1	11,547	
Geopolitical zone							
North Central	62.5	43.0	42.9	38.6	35.4	1,770	
North East	67.0	44.8	41.4	38.7	36.2	2,394	
North West	53.6	25.7	23.7	18.3	15.9	4,603	
South East	91.3	68.5	69.2	56.3	49.5	620	
South South	81.0	60.5	63.7	55.6	49.4	900	
South West	89.5	59.7	62.2	55.6	48.7	1,261	
Residence							
Urban	87.4	62.9	63.4	56.0	49.9	3,426	
Rural	56.8	31.8	30.2	25.7	23.2	8,121	
Age (years)							
15-24	62.3	34.2	33.2	27.9	24.6	3,289	
15-19	56.7	28.5	26.9	20.8	19.3	860	
20-24	64.3	36.2	35.4	30.3	26.4	2,428	
25-29	67.3	44.5	43.6	38.3	34.0	3,047	
30-39	68.5	45.0	44.1	38.4	34.7	4,154	
40-49	62.1	36.9	35.6	30.6	29.1	1,058	
Marital status							
Ever married/in union	65.7	40.9	39.8	34.3	30.9	11,351	Never married/in union 77.9 52.5 60.2 54.8 46.4 186
Education							
None	48.2	22.7	20.6	16.4	14.8	3,208	
Non-formal	44.6	22.3	19.6	16.4	15.6	2,560	
Primary	73.6	44.2	41.6	35.9	32.5	1,716	
Secondary	87.7	61.4	63.0	55.7	48.6	3,182	
Higher	97.9	82.3	84.4	75.9	69.3	882	
Wealth index quintile							
Poorest	33.6	14.2	12.1	9.7	8.9	2,587	
Second	53.9	25.3	22.6	18.8	17.3	2,548	
Middle	70.8	44.1	41.2	34.5	31.1	2,270	
Fourth	86.4	60.5	60.3	53.5	48.0	2,113	
Richest	95.0	71.3	75.4	67.0	59.1	2,028	
Ethnicity of household head							
Hausa	55.7	29.1	26.7	22.0	20.0	6,543	
Igbo	91.6	66.1	69.7	59.4	51.4	923	
Yoruba	88.9	61.3	63.2	55.6	49.1	1,096	
Other ethnic group	71.7	52.0	51.8	47.1	42.6	2,985	

1 MICS indicator 9.7 - HIV counselling during antenatal care
2 MICS indicator 9.8 - HIV testing during antenatal care

Table HA.5: HIV counselling and testing during antenatal care (continued)

Percentage of women age 15-49 with a live birth in the last 2 years who received antenatal care from a health professional during the last pregnancy, percentage who received HIV counselling, percentage who were offered and tested for HIV, percentage who were offered, tested and received the results of the HIV test, and percentage who received counselling and were offered, accepted and received the results of the HIV test, Nigeria, 2016-17

	Percentage of women who:					Number of women age 15-49 with live birth in the last 2 years
	Received antenatal care from a health professional pregnancy care ¹	Received HIV counselling during antenatal care	Were offered an HIV test and were tested for HIV during antenatal care	Were offered an HIV test and were tested for HIV during antenatal care, and accepted and received the results ²	Received HIV counselling, were offered an HIV test, and received the results	
Total	65.8	41.0	40.1	34.7	31.1	11,547
State						
Abia	90.7	57.4	65.4	53.4	46.8	99
Adamawa	80.1	58.5	57.2	54.5	51.1	264
Akwa Ibom	80.5	63.5	65.0	56.4	52.3	228
Anambra	98.3	81.4	83.9	59.7	54.6	140
Bauchi	59.8	27.5	27.2	23.5	21.1	618
Bayelsa	62.2	40.0	46.6	40.5	31.9	73
Benue	67.5	57.6	57.5	52.8	50.0	271
Borno	89.1	72.0	60.7	57.2	55.0	692
Cross River	81.0	62.7	70.9	68.8	59.2	162
Delta	77.4	52.8	52.3	38.8	35.5	173
Ebonyi	75.0	45.7	46.3	41.3	34.2	111
Edo	91.5	70.8	69.5	62.5	58.1	101
Ekiti	87.9	66.4	57.2	44.7	36.5	54
Enugu	93.0	65.4	72.8	69.0	59.5	105
Gombe	67.5	30.9	33.2	32.2	28.5	236
Imo	95.7	81.6	71.9	57.0	50.7	164
Jigawa	51.0	23.5	16.5	6.4	5.4	595
Kaduna	76.1	55.2	53.6	46.4	40.8	663
Kano	65.1	27.1	26.7	18.6	15.4	1,038
Katsina	45.1	25.6	22.4	17.9	16.8	916
Kebbi	45.4	10.9	9.9	9.3	7.4	398
Kogi	80.4	36.9	47.3	45.9	33.3	133
Kwara	74.8	54.4	56.8	53.8	49.2	115
Lagos	92.2	71.4	79.3	75.8	65.9	429
Nasarawa	67.9	49.9	50.8	34.5	32.4	244
Niger	47.9	29.3	24.0	22.0	21.1	527
Ogun	85.3	47.1	54.3	37.0	29.5	132
Ondo	85.0	52.0	48.4	38.8	38.0	163
Osun	95.6	56.9	55.8	50.2	39.8	161
Oyo	86.9	53.6	53.7	49.5	45.6	322
Plateau	61.3	40.3	40.8	40.4	37.5	392
Rivers	87.6	65.3	70.7	61.5	52.7	163
Sokoto	35.1	9.6	9.1	7.9	6.2	409
Taraba	45.2	29.4	34.3	30.8	25.5	173
Yobe	41.2	30.5	27.7	27.4	26.5	410
Zamfara	42.2	13.5	13.4	11.8	10.4	583
FCT-Abuja	82.8	66.4	72.8	66.2	59.9	89

1 MICS indicator 9.7 - HIV counselling during antenatal care
 2 MICS indicator 9.8 - HIV testing during antenatal care

Sexual Behaviour Related to HIV Transmission

Table HA.6: Sex with multiple partners (women)

Percentage of women age 15-49 years who ever had sex, percentage who had sex in the last 12 months, percentage who had sex with more than one partner in the last 12 months, mean number of sexual partners in lifetime for women who have ever had sex, and among those who had sex with multiple partners in the last 12 months, the percentage who used a condom at last sex, Nigeria, 2016-17

	Percentage of women who:				Percentage of women			
	Ever had sex	Had sex in the last 12 months	Had sex with more than one partner in last 12 months ¹	Number of women age 15-49 years	Number of sexual partners in lifetime	Number of women age 15-49 years who have ever had sex last time they had sex ²	Mean number of women age 15-49 years reporting that a condom was used the last time they had sex ²	Number of women who had more than one sexual partner in the last 12 months
Total	83.4	76.7	2.0	34,376	2	28,662	33.3	677
Geopolitical zone								
North Central	82.9	77.4	3.0	6,006	2	4,979	36.0	179
North East	81.9	76.3	1.4	6,584	1	5,395	16.5	92
North West	85.2	80.6	0.7	10,932	4	9,316	11.6	78
South East	77.8	64.7	3.9	2,445	3	1,902	57.0	94
South West	84.0	74.7	2.6	4,741	2	3,981	31.6	123
Residence								
Urban	77.1	69.1	2.3	12,373	2	9,537	40.6	284
Rural	86.9	81.0	1.8	22,003	3	19,125	28.0	393
Age (years)								
15-24	57.2	52.7	2.4	12,637	2	7,224	45.9	298
15-19	34.7	31.3	1.4	6,822	2	2,368	42.7	96
20-24	83.5	77.7	3.5	5,816	3	4,856	47.4	202
25-29	96.5	91.5	2.3	5,915	3	5,709	30.6	139
30-39	99.1	92.3	1.6	9,729	2	9,643	24.4	159
40-49	99.8	87.3	1.3	6,095	2	6,085	9.3	82
Marital status								
Ever married/in union	100.0	93.8	1.3	25,778	2	25,778	10.5	338
Never married/in union	33.1	25.4	4.0	8,520	2	2,816	56.0	339
Education								
None	94.1	88.8	1.0	7,799	2	7,340	7.1	81
Non-formal	93.1	88.0	0.6	5,646	2	5,254	5.0	36
Primary	90.3	82.4	1.8	4,963	3	4,481	15.5	91
Secondary	68.9	62.1	2.6	12,466	2	8,583	38.9	328
Higher	85.8	74.9	4.0	3,502	2	3,004	54.0	141
Wealth index quintile								
Poorest	90.4	86.6	1.0	6,120	2	5,530	14.5	62
Middle	81.8	74.3	1.9	6,708	2	5,489	27.4	128
Fourth	80.3	71.6	2.5	7,053	2	5,662	39.5	174
Richest	78.7	71.2	2.6	8,017	2	6,309	45.5	211
Ethnicity of household head								

Hausa	84.6	80.0	0.7	15,920	3	13,475	12.4	109
Igbo	79.2	67.4	3.4	3,558	3	2,818	50.5	120
Yoruba	82.7	73.7	3.1	4,380	2	3,622	32.3	134
Other ethnic group	83.2	76.1	3.0	10,518	2	8,746	34.3	314

¹ MICS indicator 9.12 - Multiple sexual partnerships ² MICS indicator 9.13 - Condom use at last sex among people with multiple sexual partnerships

Table HA.6: Sex with multiple partners (women) continued.

Percentage of women age 15-49 years who ever had sex, percentage who had sex in the last 12 months, percentage who had sex with more than one partner in the last 12 months, mean number of sexual partners in lifetime for women who have ever had sex, and among those who had sex with multiple partners in the last 12 months, the percentage who used a condom at last sex, Nigeria, 2016-17

Percentage of women who:

Percentage of women

Ever had the last sex	Had sex in the last 12 months	Had sex with more than one partner in the last 12 months ¹	Mean Number of sexual partners in lifetime	Number of women who had more than one sexual partner in the last 12 months	Percentage of women age 15-49 years who had more than one sexual partner in the last 12 months	Number of women age 15-49 years who had more than one sexual partner in the last 12 months

Total	83.4	76.7	2.0	34,376	2	28,662	33.3	677
State								
Abia	81.7	65.5	1.0	336	2	274	(*)	3
Adamawa	84.3	80.1	4.7	830	2	700	(16.8)	39
Akwa Ibom	85.8	76.8	1.6	834	2	716	(*)	14
Anambra	79.3	66.8	6.5	608	3	482	(67.6)	40
Bauchi	87.7	85.9	0.1	1,559	1	1,367	(*)	1
Bayelsa	90.6	82.3	3.4	260	3	236	(32.9)	9
Benue	87.9	81.4	6.4	956	2	840	12.7	61
Borno	74.5	65.7	1.1	1,984	1	1,479	(*)	21
Cross River	84.4	73.7	3.8	693	3	585	(54.6)	26
Delta	82.0	73.5	2.1	584	2	479	(*)	12
Ebonyi	73.9	59.0	3.6	400	5	296	(10.5)	15
Edo	79.9	71.1	1.8	494	2	394	(*)	9
Ekiti	85.4	72.1	2.3	216	2	184	(*)	5
Enugu	74.0	58.7	4.2	495	2	367	(55.0)	21
Gombe	84.1	71.2	0.9	562	1	473	(*)	5
Imo	79.8	70.9	2.7	606	3	484	(*)	16
Jigawa	89.4	85.2	0.1	1,313	1	1,173	(*)	1
Kaduna	80.6	75.6	1.0	2,076	1	1,674	(*)	21
Kano	81.4	78.2	0.6	2,389	1	1,944	(*)	14
Katsina	88.5	83.1	1.0	1,950	13	1,726	(*)	19
Kebbi	83.3	77.9	0.5	956	1	796	(*)	4
Kogi	80.8	66.9	2.8	632	2	510	(27.8)	18
Kwara	84.9	80.8	3.9	487	2	414	(61.0)	19
Lagos	84.8	75.8	3.3	1,725	2	1,463	(31.3)	56
Nasarawa	82.0	77.4	2.9	738	1	606	(36.3)	22
Niger	84.5	82.7	1.0	1,536	1	1,299	(*)	16
Ogun	83.9	76.2	1.7	474	2	397	(*)	8
Ondo	84.4	76.0	2.7	646	3	545	(*)	17
Osun	78.0	65.0	3.8	638	2	498	(*)	24
Oyo	85.8	77.9	1.2	1,042	2	894	(*)	13
Plateau	78.9	73.5	2.2	1,317	2	1,038	(47.0)	29
Rivers	84.4	75.9	5.1	803	3	678	(40.6)	41
Sokoto	89.5	83.2	1.1	912	1	816	(*)	10
Taraba	84.2	78.3	4.5	558	2	470	(31.4)	25
Yobe	83.1	80.3	0.1	1,091	1	907	(*)	1
Zamfara	88.7	84.9	0.6	1,337	1	1,185	(*)	8
FCT-Abuja	80.1	72.0	4.0	340	2	273	(65.9)	14

¹ MICS indicator 9.12 - Multiple sexual partnerships ² MICS indicator 9.13 - Condom use at last sex among people with multiple sexual partnerships

() Sample data are based on 25-49 unweighted cases

(*) Sample data are fewer than 25 unweighted cases

Table HA.6M: Sex with multiple partners (men)

Percentage of men age 15-49 years who ever had sex, percentage who had sex in the last 12 months, percentage who had sex with more than one partner in the last 12 months, mean number of sexual partners in lifetime for men who have ever had sex, and among those who had sex with multiple partners in the last 12 months, the percentage who used a condom at last sex, Nigeria, 2016-17

Percentage of men who:				Number of men	
Had sex with more than one in the one partner in	Number of men	Mean number of sexual	men age 15-49 years who had more than one sexual partner in the last 12 months reporting that	Percentage of men who had sex with more than one sexual partner in the last 12 months	age 15-49 years who had sex with more than one sexual partner in the last 12 months

	Ever had sex	last 12 months	last 12 months ¹	15-49 years	partners in lifetime	have ever had sex	a condom was used the last time they had sex ²	in the last 12 months
Total	64.5	60.1	11.2	15,183	4	9,790	35.3	1,700
Geopolitical zone								
North Central	64.5	59.7	9.5	2,730	4	1,760	42.6	260
North East	51.2	48.1	3.7	2,943	2	1,507	9.2	109
North West	56.9	54.7	7.4	4,674	2	2,658	11.1	345
South East	76.6	70.0	16.0	984	6	754	64.2	158
South South	80.8	74.6	20.0	1,664	7	1,345	50.2	332
South West	80.7	72.6	22.6	2,189	7	1,767	34.8	496
Residence								
Urban	62.9	57.2	13.3	5,627	5	3,541	42.3	747
Rural	65.4	61.7	10.0	9,556	4	6,249	29.7	953
Age (years)								
15-24	25.1	21.3	5.6	5,887	4	1,477	59.7	332
15-19	12.1	9.6	1.9	3,508	3	423	62.0	68
20-24	44.3	38.6	11.1	2,378	4	1,054	59.0	264
25-29	72.8	67.4	13.8	2,191	4	1,594	52.9	303
30-39	91.7	86.9	14.2	4,014	4	3,679	32.5	571
40-49	98.3	93.9	16.0	3,092	4	3,041	11.2	494
Marital status								
Ever married/in union	98.4	95.2	14.0	7,423	4	7,308	14.7	1,040
Never married/in union	32.0	26.5	8.5	7,749	5	2,477	67.8	658
Education								
None	65.9	63.0	6.1	1,563	2	1,030	3.9	95
Non-formal	63.8	61.0	8.2	2,140	2	1,366	3.1	176
Primary	73.5	69.9	11.4	1,997	4	1,469	25.0	228
Secondary	57.2	52.5	11.9	6,861	5	3,925	41.6	819
Higher	76.3	70.1	14.5	2,622	6	2,001	50.5	381
Wealth index quintile								
Poorest	57.6	55.1	6.3	2,614	2	1,505	8.6	165
Second	61.5	58.4	7.7	2,901	3	1,783	16.4	225
Middle	61.3	57.3	10.4	2,927	4	1,793	33.8	304
Fourth	65.7	60.2	13.0	3,202	5	2,104	38.9	417
Richest	73.6	67.3	16.7	3,539	6	2,604	48.1	589
Ethnicity of household head								
Hausa	55.3	52.6	6.1	6,958	2	3,848	12.6	424
Igbo	76.9	70.3	16.9	1,488	6	1,145	56.9	251
Yoruba	78.0	71.3	22.4	1,980	7	1,544	36.9	443

Other ethnic group	68.4	63.1	12.2	4,757	5	3,254	41.1	582
¹ MICS indicator 9.12 - Multiple sexual partnerships ^[M]								
² MICS indicator 9.13 - Condom use at last sex among people with multiple sexual partnerships ^[M]								

Table HA.6M: Sex with multiple partners (men) continued.

Percentage of men age 15-49 years who ever had sex, percentage who had sex in the last 12 months, percentage who had sex with more than one partner in the last 12 months, mean number of sexual partners in lifetime for men who have ever had sex, and among those who had sex with multiple partners in the last 12 months, the percentage who used a condom at last sex, Nigeria, 2016-17

State	Percentage of men who:				Number of men		Percentage of men who		Number of men	
	Had sex Ever	Had sex with one sexual partner in the last 12 months	Had sex with 15-49 partners in the last 12 months	Mean number of reporting that a sexual partner was used the last time they had sex ²	Number of men	Mean age of 15-49 partners in the last 12 months	Number of men	Percentage of men who had more than one sexual partner in the last 12 months	Number of men	Percentage of men who had more than one sexual partner in the last 12 months ¹
Total	64.5	60.1	11.2	15,183	4	9,790	35.3	1,700		
Abia	76.8	63.1	15.7	142	6	109	(60.3)	22		
Adamawa	66.0	62.6	1.7	389 3 256 (*)	7	Akwa Ibom 78.8 68.4 8.3 365 5 288 (43.0)	30			
Anambra	74.5	67.6	10.9	241	4	179	(65.9)	26		
Bauchi	57.7	56.8	9.2	681	2	393	(5.8)	62		
Bayelsa	83.9	76.7	27.8	121	11	101	26.9	34		
Benue	52.4	48.0	6.9	481	6	252	(56.9)	33		
Borno	42.7	40.8	0.5	813 2 347 (*)	4	Cross River 82.1 78.1 18.9 275 6 226 39.7 52				
Delta	80.7	74.2	30.8	258	10	209	26.7	80		
Ebonyi	75.4	72.6	20.6	152	7	114	43.5	31		
Edo	72.3	68.3	12.8	209	5	151	(66.2)	27		
Ekiti	81.9	70.4	16.8	96	6	79	(40.0)	16		
Enugu	81.3	73.1	18.5	190	5	154	61.7	35		
Gombe	55.4	53.3	1.4	268 2 148 (*)	4	Imo 75.7 72.1 16.4 260 7 197 82.5 43				
Jigawa	58.4	57.6	1.1	534 2 312 (*)	6	Kaduna 56.8 54.2 10.7 898 4 510 18.6 96				
Kano	52.3	49.5	3.2	1,028	2	538	(35.7)	33		
Katsina	64.3	62.4	9.6	816	1	525	(0.0)	78		
Kebbi	52.8	50.9	3.7	426	2	225	(*)	16		
Kogi	71.1	65.1	23.3	275	5	195	46.1	64		
Kwara	71.9	68.7	10.7	232 5 167 (47.6)	25	Lagos 81.0 74.8 19.7 808 7 654 47.1 159				
Nasarawa	70.3	66.3	11.2	352	4	248	23.1	40		
Niger	67.3	61.9	4.3	645	2	434	(*)	28		
Ogun	83.2	76.0	26.0	206 8 171 42.5 53	Ondo 84.5 77.0 34.5 293 8 247 32.4 101					
Osun	75.8	64.3	19.9	296 10 225 (17.3)	59	Oyo 79.8 70.5 21.8 490 7 391 23.6 107				
Plateau	60.7	57.2	8.2	606 3 368 (61.3)	50	Rivers 85.0 80.2 25.2 436 8 371 77.5 110				
Sokoto	55.3	54.7	7.1	358	2	198	(0.0)	25		
Taraba	70.9	62.1	8.3	256	4	181	(5.9)	21		
Yobe	33.9	28.3	2.1	537	1	182	(*)	11		
Zamfara	57.1	53.9	14.8	613	2	350	0.0	91		
FCT-Abuja	69.1	58.5	14.7	139	3	96	30.0	20		

1 MICS indicator 9.12 - Multiple sexual partnerships 2 [M] [M]
MICS indicator 9.13 - Condom use at last sex among people with multiple sexual partnerships

() Sample data are based on 25-49 unweighted cases

(*) Sample data are fewer than 25 unweighted cases

HIV Indicators for Young Women and Young Men

Table HA.7: Key HIV and AIDS indicators (young women)

Percentage of women age 15-24 years by key HIV and AIDS indicators, Nigeria, 2016-17

	Percentage of women age 15-24 years						Number of women age 15-24 years	Percentage of sexually active young women who have been tested for HIV in the last 12 months and know the result ²	Number of women age 15-24 years who had sex in the last 12 months	Percentage who express attitudes towards people living with HIV on all four indicators ^a	Percentage who report discriminatory attitudes towards people living with HIV [a]	Number of women age 15-24 years who have heard of AIDS
	Have comprehensive knowledge ¹	Know all three means of HIV transmission from mother to child	Know a place to get tested for HIV	Have ever been tested and know the result of the most recent test	Have been tested for HIV in the last 12 months and know the result	Have had sex in the last 12 months						
Total	29.3	47.3	54.4	23.1	12.1	52.7	12637	16.7	6655	8.0	0.0	10331
Geopolitical Zone												
North Central	27.2	43.1	57.7	28.6	15.6	51.5	2212	22.6	1139	9.5	0.0	1767
North East	28.3	43.0	49.4	22.1	9.7	53.3	2533	14.9	1350	4.5	0.0	1922
North West	24.6	45.7	45.5	13.3	6.2	59.9	4208	8.3	2519	11.5	0.0	3190
South East	27.9	50.2	64.8	31.2	16.0	38.5	921	29.1	355	2.8	0.0	858
South South	39.9	52.4	70.7	35.5	22.4	50.6	1290	30.8	653	9.6	0.0	1215
South West	39.0	59.4	62.3	28.2	16.2	43.4	1474	22.1	639	4.3	0.0	1379
Residence												
Urban	39.9	56.2	67.9	28.8	15.7	37.4	4631	27.9	1734	7.9	0.0	4254
Rural	23.1	42.2	46.5	19.7	10.0	61.5	8007	12.8	4921	8.1	0.0	6078
Age group (Years)												
15-19	28.1	44.6	48.5	14.4	7.9	31.3	6822	13.2	2135	8.1	0.0	5445
15-17	25.6	42.1	44.2	10.0	5.9	20.7	4379	10.3	907	7.3	0.0	3411
18-19	32.5	49.0	56.4	22.3	11.5	50.3	2442	15.4	1228	9.4	0.0	2034
20-24	30.7	50.6	61.2	33.2	17.0	77.7	5816	18.4	4520	7.9	0.0	4886
20-22	29.0	49.6	58.0	30.3	15.9	75.6	3924	16.9	2967	7.4	0.0	3231

23-24	34.1	52.6	67.6	39.2	19.3	82.1	1892	21.3	1553	8.7	0.0	1655
Marital status												
Ever married/in union	24.7	46.1	52.1	29.0	14.4	97.0	5365	14.5	5202	7.5	0.0	4135
Never married/in union	32.8	48.5	56.4	18.8	10.4	20.1	7222	24.6	1448	8.3	0.0	6176
Missing/Don't know	2.2	14.1	7.4	2.6	2.1	8.8	51	20.1	4	0.9	0.0	21

Table HA.7: Key HIV and AIDS indicators (young women) continued

Percentage of women age 15-24 years by key HIV and AIDS indicators, Nigeria, 2016-17

	Percentage of women age 15-24 years who:						Number of women age 15-24 years	Percentage of sexually active young women who have been tested for HIV in the last 12 months and know the result ²	Number of women age 15-24 years who had sex in the last 12 months	Percentage who express accepting attitudes towards people living with HIV on all four indicators ^a	Percentage who report discriminatory attitudes towards people living with HIV [a]	Number of women age 15-24 years who have heard of AIDS
	Have comprehensive knowledge ¹	Know all three means of HIV transmission from mother to child	Know a place to get tested for HIV	Have ever been tested and know the result of the most recent test	Have been tested for HIV in the last 12 months and know the result	Had sex in the last 12 months						
Education												
None	20.0	36.6	33.0	13.0	6.2	76.8	2215	7.3	1701	7.4	0.0	1423
Non-formal	16.6	36.1	34.4	10.2	4.7	75.8	1734	6.2	1315	6.4	0.0	1170
Primary	20.7	43.2	49.9	19.6	9.2	60.4	1313	13.7	794	7.3	0.0	1001
Secondary	34.3	52.6	63.3	26.6	14.2	37.2	6501	25.9	2416	8.2	0.0	5889
Higher	53.6	63.6	87.9	53.0	30.4	49.1	874	40.1	429	10.0	0.0	848
Wealth index quintile												
Poorest	16.6	32.6	29.0	9.1	4.9	68.5	1988	5.7	1362	9.2	0.0	1224
Second	21.9	39.1	40.1	15.5	7.3	64.6	2507	9.2	1619	8.5	0.0	1786
Middle	27.5	48.2	56.1	21.3	11.2	52.7	2711	17.2	1430	7.3	0.0	2312
Fourth	31.2	55.2	65.0	30.1	15.3	44.9	2636	24.8	1183	6.5	0.0	2381
Richest	45.0	56.9	73.5	34.8	19.4	38.0	2796	32.7	1062	8.9	0.0	2629
Ethnicity of household head												
Hausa	24.6	44.0	43.5	14.1	6.4	58.8	6088	9.4	3580	9.0	0.0	4531
Igbo	33.4	51.9	66.9	32.7	17.8	39.6	1256	31.2	498	5.2	0.0	1176

Yoruba	37.4	57.1	62.2	25.1	14.1	41.9	1424	19.2	596	5.0	0.0	1329
Other ethnic group	32.2	47.5	64.5	33.3	18.4	51.2	3869	25.6	1981	8.7	0.0	3296

¹
MICS indicator 9.1; MDG indicator 6.3 - Knowledge about HIV prevention among young women

²
MICS indicator 9.6 - Sexually active young women who have been tested for HIV and know the results

[a] Refer to Table HA.3 for the components of this indicator

Table HA.7: Key HIV and AIDS indicators (young women) continued

Percentage of women age 15-24 years by key HIV and AIDS indicators, Nigeria, 2016-17

	Percentage of women who:			Percentage of women who:			Number of women age 15-24 years	Percentage of sexually active young women who have been tested for HIV in the last 12 months and know the result ²	Number of women age 15-24 years who had sex in the last 12 months	Percentage who express attitudes towards people living with HIV on all four indicators ^a	Percentage who report discriminatory attitudes towards people living with HIV [a]	Number of women age 15-24 years who have heard of AIDS
	Have comprehensive knowledge ¹	Know all three means of HIV transmission from mother to child	Know a place to get tested for HIV	Have ever been tested and know the result of the most recent test	Have been tested for HIV in the last 12 months and know the result	Had last 12 months						
Total	29.3	47.3	54.4	23.1	12.1	52.7	12637	16.7	6655	8.0	0.0	10331
State												
Abia	23.1	59.7	63.1	25.1	14.8	39.0	108	28.1	42	3.0	0.0	105
Adamawa	17.4	42.9	48.9	30.2	21.6	56.6	310	32.0	176	3.3	0.0	240
Akwa Ibom	30.3	58.2	76.1	46.7	33.3	58.3	325	39.7	190	13.3	0.0	322
Anambra	33.6	50.9	75.4	31.1	15.7	41.9	228	27.1	96	1.4	0.0	223
Bauchi	35.2	37.8	34.7	14.2	6.4	68.6	607	8.2	416	9.3	0.0	459
Bayelsa	46.6	63.6	75.2	28.2	13.6	69.0	90	18.1	62	9.2	0.0	87
Benue	38.6	61.4	81.7	51.7	35.3	64.6	368	42.1	238	11.8	0.0	363
Borno	41.0	68.8	66.8	28.6	6.6	39.5	783	13.2	309	0.4	0.0	721
Cross River	37.9	44.9	79.3	43.3	28.1	47.9	248	37.1	119	11.0	0.0	245
Delta	25.3	48.5	56.2	20.5	12.1	46.8	202	19.3	95	5.3	0.0	175
Ebonyi	21.8	55.1	47.8	18.6	10.5	30.1	167	17.9	50	0.9	0.0	142
Edo	59.8	54.4	65.6	25.9	10.3	37.2	163	19.8	61	3.0	0.0	142
Ekiti	27.4	55.9	69.1	22.0	8.6	36.6	67	17.1	24	4.0	0.0	66
Enugu	24.7	50.3	60.1	36.3	16.4	35.7	198	30.3	71	2.2	0.0	172
Gombe	11.7	19.2	34.4	21.9	11.8	52.9	232	13.6	123	2.5	0.0	109
Imo	31.8	40.9	71.8	39.1	20.6	43.7	220	36.5	96	6.0	0.0	216
Jigawa	19.3	47.5	34.5	0.6	0.5	64.3	481	0.7	310	2.4	0.0	353

Kaduna	52.8	71.6	87.6	36.2	17.0	52.2	859	24.8	448	28.7	0.0	812
Kano	16.7	39.6	40.4	9.0	4.4	54.3	971	7.0	528	6.4	0.0	725
Katsina	18.1	44.7	37.2	10.9	4.7	68.8	729	6.1	501	9.5	0.0	533

Kebbi	3.1	8.5	12.4	3.2	1.1	52.1	361	1.0	188	2.0	0.0	176
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Table HA.7: Key HIV and AIDS indicators (young women) continued

Percentage of women age 15-24 years by key HIV and AIDS indicators, Nigeria, 2016-17

	Percentage of women			-24 year who			Number of women age 15-24 years	Percentage of sexually active young women who have been tested for HIV in the last 12 months and know the result ²	Number of women age 15-24 years who had sex in the last 12 months	Percentage who express accepting attitudes towards people living with HIV on all four indicators ^a	Percentage who report discriminatory attitudes towards people living with HIV [a]	Number of women age 15-24 years who have heard of AIDS
	Have comprehensive knowledge ¹	Know all three means of HIV transmission from mother to child	Know a place to get tested for HIV	Have ever been tested and know the result of the most recent test	Have been tested for HIV in the last 12 months and know the result	Had sex in the last 12 months						
Kogi	19.5	45.2	37.4	21.3	8.9	44.4	249	13.4	110	8.2	0.0	202
Kwara	29.2	49.1	58.6	22.3	6.5	53.2	155	11.4	82	0.9	0.0	120
Lagos	60.6	61.3	76.9	44.8	26.4	44.6	488	36.7	218	6.3	0.0	476
Nasarawa	26.0	43.1	63.9	29.8	15.8	52.1	283	18.1	148	9.7	0.0	236
Niger	20.5	35.7	47.7	13.6	4.2	55.3	534	7.6	295	1.3	0.0	386
Ogun	33.7	60.1	55.4	19.6	10.1	41.8	155	20.0	65	3.5	0.0	150
Ondo	30.8	59.3	56.0	13.8	6.9	44.8	206	6.7	92	2.9	0.0	185
Osun	26.2	68.7	55.0	22.6	14.2	40.5	250	19.9	101	0.3	0.0	239
Oyo	25.8	49.5	51.4	21.6	12.7	45.0	308	13.0	138	5.7	0.0	263
Plateau	28.3	35.1	52.5	28.1	15.9	43.0	497	28.3	213	20.0	0.0	339
Rivers	50.1	50.5	68.7	34.3	22.0	48.5	262	31.3	127	10.8	0.0	244
Sokoto	10.4	21.7	12.0	6.2	1.8	67.2	320	2.3	215	3.9	0.0	173
Taraba	13.9	38.1	47.8	20.5	11.5	55.4	207	16.5	115	1.2	0.0	155
Yobe	18.3	16.1	47.4	16.1	9.5	53.8	393	16.0	212	12.2	0.0	239
Zamfara	30.9	55.8	51.1	10.1	5.8	67.6	486	6.5	329	4.6	0.0	419
FCT-Abuja	33.3	40.3	75.9	46.0	28.8	41.2	126	44.9	52	9.7	0.0	120

¹ MICS indicator 9.1; MDG indicator 6.3 - Knowledge about HIV prevention among young women

²

MICS indicator 9.6 - Sexually active young women who have been tested for HIV and know the results

[a] Refer to Table HA.3 for the components of this indicator

Table HA.7M: Key HIV and AIDS indicators (young men)

Percentage of men age 15-24 years by key HIV and AIDS indicators, Nigeria, 2016-17

Percentage of men age 15-24 years who:		Percentage	Number
Have ever HIV in the of HIV	tested for sexually active young men who place to and know	Have been sexually active 15-24	Percentage of men age accepting attitudes 15-24
Have transmission the most and know know the result ²	months in the of men for HIV in the last 12 months and the last 12 months and the last 12 months indicators ^a	last 12 months	Had sex Number have been tested years who towards people who
			age three means Know a been tested
			comprehensive from mother tested
			recent test the result months years

Total	27.9	40.6	62.3	16.1	9.5	21.3	5,887	16.8	1,254	12.2	5,260
Geopolitical zone											
North Central	21.9	40.2	71.0	28.2	19.7	22.0	1,105	25.2	243	7.7	1,016
North East	38.9	48.8	74.9	9.2	5.1	9.4	1,193	12.1	112	23.5	1,060
North West	17.4	30.6	44.2	7.1	3.5	11.7	1,869	7.4	219	11.6	1,543
South East	34.8	37.5	73.8	18.5	7.3	36.4	384	14.5	140	10.6	369
South South	41.4	52.7	78.3	34.5	22.1	42.9	601	28.5	258	12.4	583
South West	31.0	45.4	55.6	15.9	7.4	38.4	735	9.2	282	3.9	689
Residence											
Urban	34.8	47.5	70.7	19.7	10.8	20.7	2,128	18.3	440	10.4	2,019
Rural	23.9	36.8	57.5	14.1	8.8	21.7	3,759	16.0	814	13.3	3,241
Age (years)											
15-19	24.8	39.7	56.4	10.5	7.3	9.6	3,508	13.2	337	10.3	3,049
15-17	22.8	38.4	53.2	8.8	6.2	5.6	2,352	8.5	132	10.3	1,990
18-19	28.8	42.5	63.0	13.9	9.7	17.7	1,156	16.1	205	10.2	1,059
20-24	32.4	42.0	70.9	24.4	12.7	38.6	2,378	18.1	917	14.9	2,211
20-22	30.4	40.3	68.5	19.8	10.8	33.3	1,670	17.5	556	14.3	1,533
23-24	37.1	45.8	76.6	35.2	17.0	51.0	708	19.2	361	16.4	678
Marital status											
Ever married/in union	25.8	39.2	63.0	21.7	11.0	90.4	277	10.6	250	14.0	255
Never married/in union	28.0	40.7	62.2	15.8	9.4	17.9	5,607	18.3	1,004	12.1	5,003

Table HA.7M: Key HIV and AIDS indicators (young men) continued

Percentage of men age 15-24 years by key HIV and AIDS indicators, Nigeria, 2016-17

	Percentage of men age 15-24 years who:										Percentage	Number
	Have ever HIV in the	of HIV place to	tested for sexually active young men who and know	Have been sexually active 15-24 last 12	Percentage of men age 15-24 attitudes	Number of who express age three means	of men Know a	Know all been tested	Have transmission get the result of months in the of men for HIV in the last had sex in living with HIV have comprehensive from mother tested	the most and know last 12 age 15-24 12 months and the last 12 on all four heard of knowledge ¹ to child for HIV recent test the result months years		
Education												
None	13.5	36.0	48.9	1.9	1.2	14.5	537	2.7	78	18.2	404	
Non-formal	23.6	23.3	42.7	1.6	0.3	8.7	673	1.3	58	10.4	515	
Primary	16.0	29.5	47.2	8.8	5.5	17.0	563	7.6	96	13.0	455	
Secondary	30.1	45.3	66.6	17.9	11.2	22.6	3,568	18.3	805	11.1	3,348	
Higher	44.9	47.3	86.8	43.7	22.0	40.0	544	24.3	218	16.0	539	
Wealth index quintile												
Poorest	16.2	29.7	45.8	5.2	4.0	12.8	1,106	7.4	141	13.5	840	
Second	21.0	36.5	56.0	10.7	6.5	16.0	1,132	13.7	182	16.0	965	
Middle	32.8	41.2	61.0	14.1	8.7	21.4	1,226	11.6	263	12.0	1,128	
Fourth	28.3	47.8	68.2	21.2	12.5	24.9	1,219	22.4	304	10.5	1,149	
Richest	39.6	46.8	78.6	28.1	15.1	30.3	1,203	21.0	365	10.1	1,178	
Ethnicity of household head												
Hausa	23.5	37.0	54.6	6.6	2.9	10.2	2,786	4.7	283	15.4	2,358	
Igbo	35.8	38.4	74.7	22.9	13.0	37.0	556	19.3	205	9.9	535	
Yoruba	30.9	47.6	57.1	14.8	6.4	36.1	701	9.0	253	4.5	650	
Other ethnic group	30.9	44.2	72.1	29.0	19.5	27.8	1,844	26.3	512	11.5	1,717	

¹ MICS indicator 9.1; MDG indicator 6.3 - Knowledge about HIV prevention among young men ²

[M]
MICS indicator 9.6 - Sexually active young men who have been tested for HIV and know the results

^a Refer to Table HA.3M for the four indicators.

Table HA.7M: Key HIV and AIDS indicators (young men) continued.

Percentage of men age 15-24 years by key HIV and AIDS indicators, Nigeria, 2016-17

	Percentage of men age 15-24 years with							Percentage of sexually active young men who have been tested for HIV in the last 12 months and know the result ²	Percentage who express		Number of men age 15-24 who have heard of AIDS
	HIV mother tested knowledge ¹	place to get and know result of the most recent to child	Know all three means and know the result of the comprehensive for HIV test	Have ever been tested of transmission from	Have been tested for HIV in the last 12 months and in the last 12 years	Had sex with men age 15-24 result months	Number months		Number of accepting men age 15-24 years who people living with HIV on all four indicators ^a	Number of men age 15-24 who have heard of AIDS	
Total	27.9	40.6	62.3	16.1	9.5	21.3	5,887	16.8	1,254	12.2	5,260
State											
Abia	32.8	43.1	72.7	12.7	6.6	29.0	54	(10.9)	16	4.5	50
Adamawa	55.4	52.2	61.8	14.2	12.7	22.9	158	(18.0)	36	17.0	145
Akwa Ibom	27.0	48.7	67.6	25.2	8.0	33.4	138	8.4	46	14.5	131
Anambra	18.4	32.7	89.1	8.2	1.8	30.5	92	(0.0)	28	3.3	92
Bauchi	25.7	68.6	89.5	3.2	1.7	9.6	286	(*)	27	52.7	280
Bayelsa	27.9	44.6	66.1	21.4	8.1	45.4	43	12.5	19	9.0	36

Benue	28.2	71.6	95.1	74.3	71.0	16.6	184	(85.9)	31	2.8	184
Borno	61.7	65.7	97.7	10.7	3.4	1.7	294	(*)	5	0.0	294
Cross River	46.6	44.9	75.9	32.9	23.1	45.5	102	31.5	46	24.1	100
Delta	28.2	58.7	70.3	19.5	9.9	48.8	99	16.8	48	5.8	97
Ebonyi	39.1	25.0	70.4	30.4	6.0	33.1	57	(13.8)	19	6.5	52
Edo	30.0	36.2	89.8	31.5	21.9	20.8	67	(32.6)	14	3.7	66
Ekiti	26.2	63.3	51.8	10.9	7.9	29.8	31	(*)	9	2.7	29
Enugu	52.0	52.0	80.0	25.1	7.1	44.3	83	11.2	37	28.5	83
Gombe	28.6	35.4	55.8	7.3	2.4	12.5	118	(3.5)	15	21.2	88
Imo	34.1	33.8	56.9	18.8	13.8	41.2	98	(29.3)	40	7.6	92
Jigawa	12.6	19.1	36.6	2.7	0.3	10.2	214	(*)	22	2.2	125

Table HA.7M: Key HIV and AIDS indicators (young men) continued.

Percentage of men age 15-24 years by key HIV and AIDS indicators, Nigeria, 2016-17

of HIV	Percentage of men age 15-24 years who:							Percentage				
	men who place to and know the	men age 15-24 months and the last 12	attitudes age last 12	Have been sexually active in the last 12	Number of men who had sex in the last 12	Percentage of men who have been tested for HIV in the last 12	Number of men who have been tested for HIV in the last 12	Percentage of men who have been tested for HIV in the last 12	Know all men who have comprehensive from mother tested most	Have ever tested for young	who	Number
	Have transmission get result of the months and in the last of men the last 12 had sex in with HIV on all have comprehensive from mother tested most	recent know the 12 age 15-24 months and the last 12 four heard of <u>knowledge¹ to child for HIV test result months years know the result² months indicators^a</u>										

Kaduna	10.1	24.2	35.9	13.2	5.4	16.4	361 (17.5)	59	5.5	324	Kano	23.3	33.1	40.2	7.3	4.2	13.2	452	8.5	59	20.7	404	Katsina	36.5	39.6	61.8	2.3	0.0	10.8	263 (*)	28	11.4			
243 Kebbi	3.7	21.9	47.7	9.7	5.7	9.7	180 (*)	17	6.0	124	Kogi	7.4	34.2	26.2	16.0	4.4	42.2	126	10.5	53	6.4	105	Kwara	34.4	58.0	78.7	14.8	7.1	33.0	93 (10.3)	31	5.1	80		
Lagos	40.3	42.9	78.0	26.6	14.8	34.5	226	18.7	78	8.5	224	Nasarawa	17.3	34.9	62.6	36.3	28.9	28.8	139	44.5	40	15.9	119												
Niger	10.0	24.2	55.8	8.8	2.2	15.9	239 (2.1)	38	6.4	209	Ogun	38.2	51.2	50.7	14.2	4.8	48.6	83	4.6	40	4.1	77	Ondo	31.3	62.7	42.7	1.3	1.3	49.0	92 (2.7)	45	0.0	90		
Osun	17.1	58.3	57.4	12.6	6.5	37.8	135 (13.2)	51	2.7	132	Oyo	26.7	23.0	34.5	14.0	2.5	34.8	168	(1.9)	59	0.0	137	Plateau	30.6	28.7	86.8	17.3	5.6	15.3	272 (12.3)	42				
10.2 268 Rivers	68.3	67.2	93.3	58.7	46.3	55.2	152	47.7	84	11.5	152	Sokoto	7.1	15.7	47.3	6.4	3.8	6.6	152 (*)	10	16.6	101	Taraba	15.0	28.6	52.8	24.6	15.1	24.7	91					
(27.0) 22 8.3 67																																			
Yobe	30.0	17.4	56.5	6.4	3.8	2.7	247 (*)	7	28.1	185	Zamfara	17.0	51.1	46.7	5.4	4.0	9.3	248 (*)	23	10.2	222														
FCT-Abuja				33.3				59.8		91.5				42.3			28.0		16.8		52			(26.5)		9			5.6				50		

¹ MICS indicator 9.1; MDG indicator 6.3 - Knowledge about HIV prevention among young men ^[M] ²

^[M] MICS indicator 9.6 - Sexually active young men who have been tested for HIV and know the results

^a Refer to Table HA.3M for the four indicators.

() Sample data are based on 25-49 unweighted cases

(*) Sample data are fewer than 25 unweighted cases

Table HA.8: Key sexual behaviour indicators (young women)

Percentage of women age 15-24 years by key sexual behaviour indicators, Nigeria, 2016-17

	Percentage of women age 15-24 years who:				Percentage of women age 15-24 years who in the last 12 months had sex				Number of women age 15-24 years reporting the use of a condom during who had sex with a partner in the last 12 months				
	Had sex with more women age or more non-had sex before had sex ²	Number of women age 15-24 who never had sex in non-marital, non-cohabiting the last 12 months ³	Number of women A man 10 years who intercourse with a marital, non-cohabiting the last 12 months ⁴	Percentage women 15-24 years cohabiting the last 12 months ⁵	of never-married	with: A non-age 15-24 the last more than one partner in last time they partner in the age 15 ¹	Percentage women the last sexual was used had sex with sex Ever partner in age of	Number of reporting the use of 15-24 years	Percentage reporting	Number of that a			
Total	15.1	57.2	2.4	12,637	74.8	7,222	41.2	12.4	6,655	46.6	1,567	45.9	298
Geopolitical zone													
North Central	10.2	55.6	3.3	2,212	70.6	1,380	34.7	16.1	1,139	49.1	355	55.0	74
North East	18.0	56.1	1.5	2,533	89.5	1,242	45.1	4.2	1,350	21.2	105	17.6	37
North West	23.3	63.1	0.5	4,208	93.2	1,663	55.1	3.0	2,519	27.3	127	40.5	20
South East	6.1	46.0	5.6	921	64.4	773	28.1	25.1	355	60.5	231	55.4	52
South South	7.9	56.8	4.5	1,290	55.3	1,007	21.3	31.0	653	46.0	400	43.1	58
South West	6.0	51.7	3.8	1,474	61.5	1,157	17.8	23.6	639	50.2	347	48.7	56
Residence													
Urban	7.4	42.8	2.8	4,631	75.3	3,516	33.4	15.2	1,734	56.0	703	54.6	130
Rural	19.6	65.5	2.1	8,007	74.3	3,705	44.0	10.8	4,921	38.9	864	39.1	167
Age (years)													
15-19	12.5	34.7	1.4	6,822	85.3	5,208	38.2	9.9	2,135	40.5	674	42.7	96
15-17	11.2	23.6	0.7	4,379	90.7	3,679	37.5	7.3	907	34.3	318	31.2	32
18-19	14.9	54.7	2.6	2,442	72.3	1,529	38.8	14.6	1,228	46.0	356	48.5	63
20-24	18.1	83.5	3.5	5,816	47.6	2,013	42.7	15.4	4,520	51.2	893	47.4	202
20-22	18.4	81.0	3.5	3,924	51.7	1,440	45.8	14.9	2,967	50.9	585	49.8	137
23-24	17.6	88.7	3.4	1,892	37.4	573	36.7	16.2	1,553	51.6	307	42.5	65

Marital status													
Ever married/in union	30.8	100.0	1.2	5,365	na	na	49.3	2.0	5,202	31.8	109	15.0	62
Never married/in union	3.5	25.2	3.3	7,222	74.8	7,222	12.4	19.7	1,448	48.9	1,420	54.1	236

not applicable

Table HA.8: Key sexual behaviour indicators (young women) continued

Percentage of women age 15-24 years by key sexual behaviour indicators, Nigeria, 2016-17

	Percentage of women age 15-24 years who:			Number of women age 15-24 years	Percentage of women who never had sex ²	Percentage of women age 15-24 years who:			Percentage reporting the use of a condom during the last sexual intercourse with a non-marital, noncohabiting partner in the last 12 months ⁵	Number of women age 15-24 years who had sex with a non-marital, non-cohabiting partner in last 12 months	Percentage reporting that a condom was used the last time they had sex	Number of women age 15-24 years who had sex with more than one partner in the last 12 months	
	Had sex before age 15 ¹	Ever had sex	Had sex with more than one partner in last 12 months			A never-married 15-24 years old ³	A non-marital, non-cohabiting partner ⁴	Number of women age 15-24 years who had sex in the last 12 months					
Total	15.1	57.2	2.4	12,637	74.8	7,222	41.2	12.4	6,655	46.6	1,567	45.9	298
State													
Abia	6.6	50.4	2.2	108	60.6	89	19.0	24.4	42	53.5	26	(*)	2
Adamawa	16.7	59.0	4.0	310	77.7	163	53.8	10.7	176	(25.3)	33	(*)	12
Akwa Ibom	9.5	64.6	2.9	325	48.0	239	14.1	33.7	190	49.7	110	(*)	10
Anambra	4.8	48.8	10.6	228	61.0	191	27.0	30.2	96	66.0	69	(67.6)	24
Bauchi	21.6	69.9	0.2	607	94.4	194	44.4	1.2	416	(*)	8	(*)	1
Bayelsa	16.2	74.0	4.9	90	38.0	62	25.3	43.4	62	32.3	39	(*)	4
Benue	14.1	68.8	5.5	368	50.4	228	30.3	28.0	238	53.7	103	(*)	20
Borno	15.8	42.0	1.0	783	94.3	482	35.8	2.0	309	(*)	16	(*)	8
Cross River	10.3	56.5	5.1	248	54.9	196	19.9	29.0	119	47.3	72	(*)	13
Delta	5.0	51.2	4.5	202	63.4	155	18.2	27.7	95	28.0	56	(*)	9
Ebonyi	7.7	39.6	3.6	167	71.8	140	35.9	18.2	50	27.5	30	(*)	6

Edo	1.9	42.2	2.2	163	67.0	141	28.3	24.5	61	59.3	40	(*)	4
Ekiti	4.2	53.1	2.3	67	59.5	53	19.1	21.8	24	(41.0)	14	(*)	2
Enugu	6.0	43.7	6.0	198	65.9	170	36.9	22.9	71	57.6	45	(*)	12
Gombe	22.5	63.0	0.4	232	90.1	95	38.9	3.8	123	(*)	9	(*)	1
Imo	6.2	47.8	3.5	220	62.7	183	22.7	27.4	96	75.9	60	(*)	8
Jigawa	15.0	72.5	0.3	481	95.2	139	45.1	7.4	310	(0.0)	35	(*)	1
Kaduna	21.5	55.6	0.7	859	82.3	463	38.5	7.5	448	(48.7)	64	(*)	6

Table HA.8: Key sexual behaviour indicators (young women) continued

Percentage of women age 15-24 years by key sexual behaviour indicators, Nigeria, 2016-17

	Percentage of women age 15-24 years who:			Number of women age 15-24 years	Percentage of women who never had sex ²	Percentage of women age 15-24 years who in the last 12 months had sex with:			Number of women age 15-24 years who had sex in the last 12 months	Percentage reporting the use of a condom during the last sexual intercourse with a non-marital, noncohabiting partner in the last 12 months ⁵	Number of women age 15-24 years who had sex with a non-marital, non-cohabiting partner in last 12 months	Percentage reporting that a condom was used the last time they had sex	Number of women age 15-24 years who had sex with more than one partner in the last 12 months
	Had sex before age 15 ¹	Ever had sex	Had sex with more than one partner in last 12 months			never-married age 15-24 years older ³	A man 10 or more years partner ⁴	A non-marital, cohabiting women more years					
Kano	15.5	55.3	0.4	971	98.6	440	60.8	0.3	528	(*)	3	(*)	4
Katsina	26.8	71.0	0.7	729	96.9	218	58.6	1.2	501	(*)	9	(*)	5
Kebbi	16.4	57.5	0.2	361	97.4	156	56.4	3.3	188	(*)	12	(*)	1
Kogi	11.2	54.3	2.5	249	54.7	208	17.0	30.6	110	32.1	76	(*)	6
Kwara	7.0	54.4	4.3	155	73.0	97	26.0	17.8	82	(79.9)	28	(*)	7
Lagos	2.9	53.1	5.1	488	57.3	400	17.0	27.0	218	64.9	132	(*)	25
Nasarawa	10.4	56.4	4.4	283	75.9	163	47.4	12.5	148	38.7	35	(*)	13
Niger	11.9	57.4	1.9	534	84.2	261	42.3	6.3	295	(51.4)	34	(*)	10
Ogun	5.4	51.2	1.3	155	67.8	112	22.7	15.8	65	(54.0)	24	(*)	2
Ondo	10.2	52.0	5.0	206	59.5	166	21.4	29.4	92	42.0	61	(*)	10
Osun	9.2	47.4	5.5	250	68.6	192	16.3	20.1	101	(31.3)	50	(*)	14
Oyo	6.4	52.9	1.2	308	61.9	234	15.4	21.3	138	(43.2)	65	(*)	4
Plateau	6.7	46.0	2.2	497	81.5	330	33.0	10.6	213	(53.6)	53	(*)	11
Rivers	7.0	54.9	7.1	262	55.3	214	30.4	32.0	127	52.3	84	(*)	19
Sokoto	35.6	71.5	0.2	320	95.1	96	65.8	0.9	215	(*)	3	(*)	1
Taraba	9.9	59.7	7.1	207	64.5	129	39.0	19.0	115	25.4	39	(*)	15

Yobe	19.6	54.5	0.0	393	100.0	179	60.0	0.2	212	(*)	1		
Zamfara	41.5	69.6	0.6	486	98.5	150	64.8	0.1	329	(*)	1	(*)	3
FCT-Abuja	7.7	49.3	5.7	126	67.5	94	33.1	21.4	52	49.6	27	(70.4)	7

1 MICS indicator 9.10 - Sex before age 15 among young women
2 MICS indicator 9.9 - Young women who have never had sex
3 MICS indicator 9.11 - Age-mixing among sexual partners
4 MICS indicator 9.14 - Sex with non-regular partners
5 MICS indicator 9.15; MDG indicator 6.2 - Condom use with non-regular partners

na: not applicable

() Sample data are based on 25-49 unweighted cases

(*) Sample data are fewer than 25 unweighted cases

Table HA.8M: Key sexual behaviour indicators (young men)

Percentage of men age 15-24 years by key sexual behaviour indicators, Nigeria, 2016-17

Percentage of men age 15-24 years who:		Percentage	Number of men age 15-24	Percentage reporting	Number of men age 15-24	Percentage reporting	Number of men age 15-24
Had sex with more than one partner in the last 12 months ¹	Number who had sex with more than one partner in the last 12 months ¹	of never-married men in the last 12 months ¹	the use of a condom during the last 12 months ²	years who had sex with a non-marital, non-cohabiting partner in the last 12 months ³	that a condom was used with more than one partner in the last 12 months ⁴	age 15-24 years	who had sex with more than one partner in the last 12 months ⁵

Total	4.1	25.1	5.6	5,887	78.4	5,607	17.1	1,254	61.4	1,004	59.7	332
Geopolitical zone												
North Central	3.5	25.7	4.4	1,105	78.2	1,048	17.8	243	62.1	197	62.6	48
North East	2.5	10.7	1.1	1,193	93.7	1,128	5.2	112	21.5	62	27.8	13
North West	1.3	13.4	1.3	1,869	91.2	1,767	6.3	219	63.7	118	70.0	25
South East	5.0	44.2	11.2	384	56.9	376	34.2	140	74.6	131	78.4	43
South South	8.2	50.0	14.2	601	51.9	579	40.3	258	61.2	242	54.2	85
South West	11.1	46.8	16.1	735	55.2	709	34.6	282	63.0	254	56.8	119
Residence												
Urban	4.9	25.2	7.8	2,128	76.4	2,081	19.0	440	70.1	405	60.6	166
Rural	3.7	25.0	4.4	3,759	79.6	3,527	15.9	814	55.6	599	58.7	166
Age (years)												
15-19	3.3	12.1	1.9	3,508	88.4	3,482	8.9	337	51.3	311	62.0	68
15-17	3.0	7.4	0.9	2,352	92.8	2,338	5.2	132	46.9	121	38.8	20
18-19	3.8	21.5	4.2	1,156	79.3	1,144	16.4	205	54.1	189	71.7	48
20-24	5.3	44.3	11.1	2,378	62.0	2,125	29.2	917	66.0	693	59.0	264
20-22	4.5	38.7	8.8	1,670	66.7	1,527	25.3	556	65.2	422	56.0	146
23-24	7.3	57.6	16.6	708	50.0	597	38.3	361	67.2	271	62.8	118
Marital status												
Ever married/in union	8.6	95.3	9.3	277	na	na	16.1	250	46.9	44	20.9	26
Never married/in union	3.9	21.6	5.5	5,607	78.4	5,607	17.1	1,004	62.1	960	62.9	307

Table HA.8M: Key sexual behaviour indicators (young men) (continued)

Percentage of men age 15-24 years by key sexual behaviour indicators, Nigeria, 2016-17

than one	Percentage of men age 15-24 years who:							Number of men age 15-24 years who had sex with more than one partner ³	Percentage reporting age 15-24 years who had sex with more than one cohabiting partner in the last 12 months ⁴	Percentage reporting 15-24 years Had sex Ever the last 12 months	Number of men age 15-24 years had sex with a non-marital, non-cohabiting partner in the last 12 months	
	Number of men age 15-24 years who had sex with a non-marital, non-cohabiting partner in the last 12 months	Percentage of men age 15-24 years who had sex with a non-marital, non-cohabiting partner in the last 12 months	Number of men age 15-24 years who had sex with a non-marital, non-cohabiting partner in the last 12 months	Percentage of men age 15-24 years who had sex with a non-marital, non-cohabiting partner in the last 12 months	Number of men age 15-24 years who had sex with a non-marital, non-cohabiting partner in the last 12 months	Percentage of men age 15-24 years who had sex with a non-marital, non-cohabiting partner in the last 12 months	Number of men age 15-24 years who had sex with a non-marital, non-cohabiting partner in the last 12 months					
Education												
None	1.0	16.0	0.5	537	94.8	467	4.2	78	14.0	23	0.0	3
Non-formal	0.7	10.0	0.7	673	95.2	634	2.7	58	34.8	18	12.3	5
Primary	3.4	20.5	4.3	563	84.2	531	12.0	96	49.7	68	62.9	24
Secondary	5.0	26.8	6.0	3,568	75.4	3,458	19.5	805	60.3	697	59.5	215
Higher	6.2	46.0	15.8	544	56.7	518	36.5	218	77.3	199	63.7	86
Wealth index quintile												
Poorest	1.4	14.0	1.1	1,106	92.4	1,022	6.0	141	20.6	66	46.2	12
Second	2.6	18.3	2.2	1,132	87.3	1,056	10.0	182	47.8	114	60.1	25
Middle	4.5	24.9	5.2	1,226	78.2	1,172	17.5	263	61.2	215	54.7	63
Fourth	5.3	31.3	7.1	1,219	70.5	1,186	21.9	304	65.5	267	52.1	86
Richest	6.4	35.5	12.1	1,203	66.2	1,171	28.5	365	70.8	343	67.3	146
Ethnicity of household head												
Hausa	1.3	11.7	1.1	2,786	92.8	2,639	5.3	283	54.8	148	75.5	32
Igbo	5.6	45.7	13.9	556	55.6	542	34.9	205	74.2	194	71.7	77
Yoruba	10.2	42.7	13.8	701	59.7	672	31.5	253	66.2	221	58.5	96
Other ethnic group	5.7	32.4	6.9	1,844	70.9	1,754	23.9	512	55.7	441	49.2	127

	1	MICS indicator 9.10 - Sex before age 15 among young men	2	[M]
				[M]
		MICS indicator 9.9 - Young men who have never had sex	3	
				[M]
		MICS indicator 9.14 - Sex with non-regular partners	4	[M]
not applicable		MICS indicator 9.15; MDG indicator 6.2 - Condom use with non-regular partners na:		

Table HA.8M: Key sexual behaviour indicators (young men) continued.

Percentage of men age 15-24 years by key sexual behaviour indicators, Nigeria, 2016-17

Percentage of men age 15-24 years who:		Number of men		Percentage		
Had sex	Number who in the last 12 months	Number of men age 15-24	Percentage reporting the use of a condom during the last sexual intercourse with a non-marital, non-cohabiting partner ³ months	Percentage reporting that a condom was used with a non-marital, non-cohabiting partner in last 12 months ⁴	Number of men with more than one partner in the last 12 months	Percentage reporting that a non-marital, non-cohabiting partner had sex with more than one partner in the last 12 months
Ever had sex in the last 12 months	Number of men age 15-24 who had sex ² in the last 12 months	Number of men age 15-24 who had sex ² in the last 12 months	Percentage reporting the use of a condom during the last sexual intercourse with a non-marital, non-cohabiting partner ³ months	Percentage reporting that a condom was used with a non-marital, non-cohabiting partner in last 12 months ⁴	Number of men with more than one partner in the last 12 months	Percentage reporting that a non-marital, non-cohabiting partner had sex with more than one partner in the last 12 months

Total	4.1	25.1	5.6	5,887	78.4	5,607	17.1	1,254	61.4	1,004	59.7	332
State												
Abia	11.9	48.0	7.9	54	52.9	53	(28.1)	16	(71.6)	15	(*)	4
Adamawa	5.1	23.7	1.5	158	79.6	151	(17.2)	36	(0.0)	27	(*)	2
Akwa Ibom	5.9	46.7	6.9	138	56.6	130	31.4	46	(48.6)	43	(*)	10
Anambra	4.0	35.3	8.1	92	65.7	91	(29.1)	28	64.1	27	(*)	7
Bauchi	0.3	9.6	0.4	286	98.2	263	(*)	27	(*)	3	(*)	1
Bayelsa	30.1	55.8	20.5	43	47.1	40	42.1	19	50.8	18	(33.2)	9
Benue	1.7	21.1	3.6	184	83.8	173	(12.1)	31	(*)	22	(*)	7
Borno	0.0	1.7	0.0	294	100.0	286	(*)	5	(*)	0-	na	na
Cross River	7.5	51.7	12.5	102	49.2	100	44.4	46	46.9	45	(*)	13
Delta	7.6	54.5	21.6	99	47.0	96	45.0	48	(57.4)	44	(*)	21
Ebonyi	0.0	34.6	6.1	57	67.9	55	(28.7)	19	(76.8)	16	(*)	3
Edo	2.4	23.1	4.6	67	78.1	66	(18.7)	14	(58.5)	13	(*)	3
Ekiti	13.1	45.4	9.2	31	54.6	31	(*)	9	(*)	9	(*)	3
Enugu	7.2	59.3	14.5	83	41.3	82	44.3	37	81.3	37	(*)	12
Gombe	0.9	13.8	1.5	118	92.5	110	(6.4)	15	(*)	7	(*)	2
Imo	3.3	43.4	16.0	98	57.9	96	(37.1)	40	(75.9)	37	(*)	16
Jigawa	0.7	10.7	1.4	214	96.0	199	(*)	22	(*)	7	(*)	3
Kaduna	3.2	19.0	1.9	361	86.5	333	(9.6)	59	(65.9)	35	(*)	7
Kano	0.4	14.9	2.4	452	86.2	443	11.1	59	80.3	50	(*)	11
Katsina	2.0	11.6	0.0	263	94.8	246	(*)	28	(*)	9	na	na

Table HA.8M: Key sexual behaviour indicators (young men) continued.

Percentage of men age 15-24 years by key sexual behaviour indicators, Nigeria, 2016-17

	Percentage of men age 15-24 years who:						Number of men Percentage reporting age 15-24 reporting Number of men					
	Had sex 15-24 last 12 months ⁴	Ever partner in the last 12 months ⁴	Number of men 15-24 cohabiting partner in last 12 months ⁴	Number of men 15-24 cohabiting partner in last 12 months ⁴	Percentage of men 15-24 cohabiting partner in last 12 months ⁴	Percentage of men 15-24 cohabiting partner in last 12 months ⁴	Number of men 15-24 cohabiting partner in last 12 months ⁴	Percentage of men 15-24 cohabiting partner in last 12 months ⁴	Number of men 15-24 cohabiting partner in last 12 months ⁴	Percentage of men 15-24 cohabiting partner in last 12 months ⁴	Number of men 15-24 cohabiting partner in last 12 months ⁴	Percentage of men 15-24 cohabiting partner in last 12 months ⁴
State												
Kebbi	0.9	11.4	0.5	180	92.1	172	(*)	17	(*)	9	(*)	1
Kogi	6.3	44.2	16.5	126	58.3	121	38.1	53	53.3	48	(50.1)	21
Kwara	0.0	34.3	4.9	93	71.2	86	(24.8)	31	(79.4)	23	(*)	5
Lagos	3.7	38.7	12.3	226	63.8	217	32.3	78	74.5	73	(67.6)	28
Nasarawa	13.1	33.1	1.8	139	70.7	131	23.4	40	(41.9)	33	(*)	3
Niger	2.7	20.8	0.8	239	83.8	224	(10.8)	38	(*)	26	(*)	2
Ogun	23.6	59.5	24.1	83	42.5	79	47.8	40	65.1	40	(*)	20
Ondo	17.0	54.4	23.0	92	46.4	91	(41.7)	45	(72.3)	38	(67.8)	21
Osun	15.5	51.6	11.5	135	49.7	131	(30.5)	51	(55.3)	41	(*)	15
Oyo	7.6	43.6	18.6	168	59.2	160	(31.7)	59	(41.5)	53	(*)	31
Plateau	0.6	16.8	3.4	272	84.4	268	(13.6)	42	(77.9)	37	(*)	9
Rivers	7.6	59.4	19.6	152	42.0	147	51.7	84	81.3	79	(79.4)	30
Sokoto	0.0	6.6	0.8	152	99.2	143	(*)	10	(*)	0	(*)	1
Taraba	19.2	32.7	8.1	91	71.9	83	(22.3)	22	(33.8)	20	(*)	7
Yobe	0.8	5.0	0.0	247	98.4	235	(*)	7	(*)	4	na	na
Zamfara	1.0	12.2	0.8	248	94.3	231	(*)	23	(*)	7	(*)	2
FCT-Abuja	2.1	31.0	4.3	52	80.6	44	(15.6)	9	(70.4)	8	(*)	2
<p>¹ MICS indicator 9.10 - Sex before age 15 among young men ²</p> <p>[M]</p> <p>MICS indicator 9.9 - Young men who have never had sex ³</p> <p>[M]</p> <p>MICS indicator 9.14 - Sex with non-regular partners ⁴ [M]</p> <p>MICS indicator 9.15; MDG indicator 6.2 - Condom use with non-regular partners na:</p> <p>not applicable</p>												

() Sample data are based on 25-49 unweighted cases

() Sample data are fewer than 25 unweighted cases*

Orphans

Table HA.9: School attendance of orphans and non-orphans

School attendance of children age 10-14 years by orphanhood, Nigeria, 2016-17

	Percentage of children whose parents are still alive, number of non-orphans)	Percentage of children whose mother and father have living with at least one parent (non-orphans)	Percentage of Total children whose mother and father have died children age 10-14 (orphans) and are years	Percentage of Total children whose mother and father are age 10-14 orphans) and are years attending school	Total Orphan years	Percentage of orphans who are living with at least one parent (non-orphans), and who are attending school	Percentage of non-orphans whose father school died children age 10-14 attendance	Number of orphans father school died children age 10-14 attendance	ratio ¹
Total	0.7	83.4	24,773	79.2	175	78.4	20,657	1.0	
Sex									
Male	0.6	84.2	12,292	79.7	72	79.5	10,354	1.0	
Female	0.8	82.6	12,481	78.8	102	77.3	10,304	1.0	
Residence									
Urban	0.9	79.3	8,165	85.3	77	93.1	6,473	0.9	
Rural	0.6	85.4	16,608	74.4	98	71.8	14,185	1.0	

¹ MICS indicator 9.16; MDG indicator 6.4 - Ratio of school attendance of orphans to school attendance of non-orphans

See Table CP.14 for further overall results related to children's living arrangements and orphanhood

Male circumcision

Table HA.10: Male circumcision

Percentage of men age 15-49 years who report having been circumcised, and percent distribution of men by age of circumcision, Nigeria, 2016-17

	Percent circumcised ¹	Number		Age at circumcision:							Number of men of age 15-49 years		Percent circumcised
		15-49 years	Missing/ who have	During infancy	1-4 years	5-9 years	10-14 years	15-19 years	20-24 years	25+	Don't know	Total	
Total	98.5	15,183		26.3	12.4	44.1	1.8	0.2	0.1	0.0	15.1	100.0	14,950
Geopolitical zone													
North Central	96.3	2,730	29.3	26.4	13.1	1.4	0.2	0.3	0.0	29.4	100.0	2,628	2,917
North East	99.1	2,943	4.6	10.4	80.1	2.5	0.2	0.1	0.0	2.0	100.0	0.0	2,000
North West	98.9	4,674	4.8	15.8	72.8	2.8	0.2	0.1	0.0	3.6	100.0	0.0	4,622
South East	98.9	984	44.5	0.9	11.1	0.2	0.0	0.1	0.0	43.2	100.0	0.0	973
South South	99.0	1,664	72.9	1.8	13.8	0.3	0.2	0.1	0.0	10.9	100.0	0.0	1,648
South West	98.8	2,189	54.0	3.9	9.9	1.1	0.3	0.0	0.0	30.8	100.0	0.0	2,162
Residence													
Urban	98.5	5,627	31.9	10.8	35.8	1.5	0.1	0.1	0.0	19.7	100.0	0.0	5,544
Rural	98.4	9,556	23.0	13.3	49.0	2.0	0.3	0.1	0.0	12.4	100.0	0.0	9,407
Age (years)													
15-24	98.2	5,887	26.2	14.2	42.9	1.4	0.1	na	na	15.2	100.0	0.0	5,779
	98.3	3,508	25.2	14.4	43.7	1.4	0.1	na	na	15.2	100.0	0.0	3,448
20-24	98.0	2,378	27.5	13.9	41.8	1.4	0.2	0.1	na	15.1	100.0	0.0	2,330
	98.7	2,191	24.8	13.5	45.0	2.1	0.2	0.1	0.0	14.3	100.0	0.0	2,163
30-39		98.7	4,014	27.8	11.4	43.5	1.7	0.2	0.1	0.0	15.2	100.0	3,961
40-49		98.6	3,092	25.5	9.4	46.5	2.5	0.3	0.2	0.0	15.6	100.0	3,048
Education													
None		97.4	1,563	7.5	13.1	69.0	2.3	0.6	0.3	0.0	7.3	100.0	1,523
Non-formal	98.8	2,140	1.6	11.9	78.3	2.6	0.3	0.0	0.0	5.3	100.0	2,115	1,973
Primary	98.8	1,997	24.3	12.8	43.9	2.0	0.2	0.1	0.0	16.7	100.0	0.0	1,935
Secondary	98.4	6,861	35.0	12.4	32.1	1.4	0.1	0.1	0.0	18.8	100.0	6,753	
Higher		98.7	2,622	36.1	12.0	32.9	1.6	0.1	0.3	0.0	16.9	100.0	2,587
Wealth index quintile													
Poorest	98.1	2,614	5.5	14.6	69.8	2.8	0.2	0.2	0.0	7.0	100.0	2,565	2,853
Second	98.4	2,901	12.4	14.5	59.1	2.2	0.5	0.1	0.0	11.3	100.0	0.0	2,885
Middle		98.6	2,927	24.3	14.7	44.4	1.9	0.1	0.1	0.0	14.4	100.0	2,885
Fourth		98.4	3,202	35.9	11.6	33.5	1.3	0.2	0.1	0.0	17.5	100.0	3,149
Richest		98.8	3,539	45.8	7.8	22.4	1.0	0.1	0.2	0.0	22.8	100.0	3,497
Ethnicity of household head													
Hausa		98.6	6,958	3.6	13.9	73.3	2.7	0.2	0.1	0.0	6.3	100.0	6,861
Igbo	98.7	1,488	46.3	2.7	13.6	0.5	0.1	0.0	0.0	36.7	100.0	1,468	1,935
Yoruba	97.8	1,980	55.0	7.5	9.0	1.1	0.3	0.0	0.0	27.2	100.0	1,935	

Other ethnic group	98.5	4,757	41.4	15.2	25.4	1.2	0.2	0.2	0.0	16.4	100.0	4,685
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circumcision na: not applicable 1 MICS indicator 9.17 - Male

Table HA.10: Male circumcision (continued)

Percentage of men age 15-49 years who report having been circumcised, and percent distribution of men by age of circumcision, Nigeria, 2016-17

		Age at circumcision:									
Number		men 15-49 years age							Number of		
men		During 1-4		5-9		10-14		15-19		men age of	
Percent	15-49	years	years	years	years	years	years	years	years	Don't	have been
circumcised ¹	years	infancy	years	years	years	years	years	years	years	know	circumcised
										Total	

Total	98.5	15,183	26.3	12.4	44.1	1.8	0.2	0.1	0.0	15.1	100.0	14,950
State												
Abia	97.5	142	71.2	3.2	1.0	0.0	0.0	0.0	0.0	24.5	100.0	138
Adamawa	98.7	389	13.8	25.3	52.0	6.0	1.4	0.1	0.0	1.3	100.0	384
Akwa Ibom	98.9	365	58.3	0.1	40.0	0.3	0.0	0.2	0.1	1.0	100.0	361
Anambra	99.8	241	0.3	0.0	0.6	0.0	0.0	0.0	0.0	99.2	100.0	240
Bauchi	100.0	681	2.4	5.5	91.0	1.0	0.0	0.0	0.0	0.1	100.0	681
Bayelsa	98.4	121	92.6	4.6	2.2	0.2	0.0	0.0	0.0	0.4	100.0	119
Benue	99.1	481	38.8	38.5	1.4	0.6	0.0	0.1	0.0	20.6	100.0	477
Borno	99.4	813	0.0	11.7	87.0	1.2	0.0	0.0	0.0	0.0	100.0	808
Cross River	99.0	275	70.1	3.3	20.6	0.7	0.5	0.0	0.0	4.8	100.0	272
Delta	99.3	258	41.8	3.0	5.1	0.4	0.7	0.2	0.0	48.8	100.0	257
Ebonyi	99.8	152	31.8	0.0	1.7	0.0	0.0	0.0	0.0	66.5	100.0	151
Edo	99.2	209	94.9	3.3	1.1	0.0	0.3	0.4	0.0	0.0	100.0	207
Ekiti	100.0	96	52.2	2.8	2.4	0.0	0.6	0.0	0.0	42.0	100.0	96
Enugu	98.3	190	88.8	0.2	0.6	0.0	0.0	0.0	0.0	10.4	100.0	187
Gombe	99.7	268	8.1	10.0	75.7	5.8	0.4	0.0	0.0	0.0	100.0	267
Imo	98.7	260	46.8	1.7	39.7	0.7	0.0	0.2	0.0	11.0	100.0	256
Jigawa	99.7	534	0.3	5.0	89.0	4.3	0.0	0.1	0.0	1.3	100.0	533
Kaduna	97.0	898	18.7	15.9	62.0	2.0	0.0	0.0	0.0	1.4	100.0	871
Kano	99.3	1,028	4.1	14.7	73.9	1.4	0.0	0.0	0.0	5.8	100.0	1,021
Katsina	99.6	816	0.3	29.8	66.2	2.8	0.6	0.2	0.0	0.0	100.0	812
Kebbi	98.2	426	0.7	22.9	69.6	0.5	0.3	0.0	0.0	6.0	100.0	418
Kogi	88.4	275	61.5	18.6	8.9	3.1	0.5	0.0	0.0	7.3	100.0	243
Kwara	90.2	232	59.5	35.0	5.2	0.3	0.0	0.0	0.0	0.0	100.0	209
Lagos	99.2	808	53.7	2.4	23.7	1.2	0.1	0.0	0.0	18.9	100.0	801
Nasarawa	95.1	352	11.3	51.2	27.5	1.0	0.0	0.3	0.0	8.8	100.0	335
Niger	97.1	645	1.0	20.1	20.7	1.1	0.5	1.1	0.0	55.5	100.0	626
Ogun	97.0	206	84.0	5.7	4.1	2.2	1.9	0.0	0.0	2.1	100.0	200
Ondo	97.5	293	38.2	0.7	0.9	0.0	0.0	0.0	0.0	60.3	100.0	286
Osun	97.5	296	66.9	8.9	1.7	2.7	0.4	0.0	0.0	19.5	100.0	289
Oyo	100.0	490	44.2	5.0	1.4	0.3	0.0	0.0	0.0	49.1	100.0	490
Plateau	99.6	606	26.9	13.5	11.5	2.3	0.0	0.0	0.0	45.8	100.0	604
Rivers	99.2	436	89.4	0.0	2.1	0.0	0.0	0.0	0.0	8.6	100.0	432
Sokoto	100.0	358	1.9	5.3	84.0	5.0	0.0	0.0	0.0	3.7	100.0	358
Taraba	98.5	256	17.4	13.7	47.8	1.3	0.0	0.2	0.0	19.7	100.0	252
Yobe	98.0	537	0.2	2.6	93.6	2.8	0.0	0.4	0.0	0.5	100.0	526
Zamfara	99.2	613	0.5	9.2	76.2	5.0	0.8	0.0	0.0	8.3	100.0	608
FCT-Abuja	97.2	139	77.0	8.9	10.0	1.1	0.2	0.0	0.2	2.6	100.0	135
¹ MICS indicator 9.17 - Male circumcision												
na: not applicable												

Table HA.11: Provider and location of circumcision

Percent distribution of circumcised men age 15-49 by person performing circumcision and the location where circumcision was performed, Nigeria, 2016-17

	Person performing circumcision:							Total	of circum					Total circumcised	Number of men age 15-49 years who have been circumcised	
	Doctor	Nurse /midwife	Other health professionals	Traditional circumciser	Traditional birth attendant	Other traditional	Missing /Don't know		Home of a health worker/facility professional	At home	At facility	Other home/place	Missing /Don't know			
Total	10.2	13.3	2.6	58.1	3.1	1.9	10.8	100.0	22.3	3.9	60.2	0.9	2.8	9.8	100.0	14,950
Geopolitical zone																
North Central	11.0	14.4	8.5	41.3	2.6			100.0	26.4	8.0	44.5	0.6	2.9	17.6	100.0	2,628
North East	12.4	2.9	1.7	76.0	1.0	2.5	19.8	100.0	15.6	0.9	79.4	0.2	3.6	0.4	100.0	2,917
North West	6.6	1.1	0.6	85.3	4.6	1.0	0.9	100.0	7.5	1.5	86.0	2.2	2.1	0.7	100.0	4,622
South East	4.4	62.4	4.7	12.8	1.1	0.3	14.4	100.0	63.1	9.6	15.6	0.1	0.6	10.9	100.0	973
South South	12.7	32.4	1.2	35.4	4.9	0.3	13.0	100.0	39.7	5.3	40.2	0.2	2.7	11.9	100.0	1,648
South West	14.6	15.2	1.3	34.3	2.9	0.2	31.6	100.0	26.3	4.4	33.7	0.6	4.6	30.4	100.0	2,162
Residence																
Urban	17.5	16.2	2.1	44.8	2.4	1.3	15.8	100.0	32.1	4.6	44.6	0.6	3.5	14.5	100.0	5,544
Rural	5.9	11.5	3.0	66.0	3.5	2.3	7.8	100.0	16.5	3.5	69.4	1.1	2.5	7.1	100.0	9,407
Age (years)																
15-24	11.7	15.5	3.3	54.1	2.6	2.0	10.8	100.0	25.4	5.0	56.3	0.7	2.7	9.8	100.0	5,779
15-19	12.0	15.0	3.2	54.8	2.3	2.1	10.6	100.0	25.3	5.0	56.5	0.8	2.7	9.7	100.0	3,448
20-24	11.2	16.1	3.5	53.1	3.1	1.9	11.1	100.0	25.4	5.1	56.0	0.7	2.7	9.9	100.0	2,330
25-29	12.7	14.1	2.8	56.5	2.5	1.7	9.8	100.0	26.1	3.7	57.9	0.9	2.3	9.2	100.0	2,163

30-39	10.1	13.7	2.3	57.7	2.9	2.0	11.4	100.0	22.6	3.5	59.7	0.9	2.9	10.3	100.0	3,961
40-49	5.6	8.0	1.7	67.6	4.7	1.8	10.7	100.0	13.3	2.5	69.9	1.3	3.4	9.7	100.0	3,048
Education																
None	1.2	2.2	1.7	85.2	1.9	3.2	4.6	100.0	3.5	1.6	87.2	0.8	2.8	4.1	100.0	1,523
Non-formal	3.3	0.1	0.3	82.8	5.6	5.8	2.0	100.0	3.6	1.3	87.0	1.8	4.2	2.1	100.0	2,115
Primary	4.8	9.9	2.0	66.5	4.4	1.8	10.5	100.0	13.9	3.4	69.7	0.7	2.2	10.1	100.0	1,973
Secondary	12.3	18.1	3.6	49.0	2.4	0.9	13.8	100.0	28.6	5.0	50.3	0.8	2.6	12.6	100.0	6,753
Higher	19.6	20.4	3.1	39.7	2.5	0.7	14.0	100.0	38.5	4.8	41.1	0.7	2.8	12.2	100.0	2,587
Wealth index quintile																
Poorest	1.6	2.4	1.2	82.8	3.9	5.1	3.0	100.0	4.4	1.1	86.8	1.2	4.1	2.4	100.0	2,565
Second	3.0	5.6	2.5	76.3	3.6	2.4	6.5	100.0	8.2	2.9	79.2	1.0	2.3	6.5	100.0	2,853
Middle	7.9	10.7	3.4	63.9	3.6	1.1	9.4	100.0	17.6	4.7	66.7	1.0	1.6	8.4	100.0	2,885
Fourth	15.1	19.3	3.3	46.2	2.3	0.8	13.0	100.0	32.5	4.9	47.5	0.9	2.4	11.8	100.0	3,149
Richest	19.8	24.2	2.5	31.3	2.3	0.8	19.1	100.0	41.5	5.3	31.4	0.5	3.9	17.4	100.0	3,497
Ethnicity of household head																
Hausa	8.7	1.5	1.0	79.3	3.8	3.1	2.6	100.0	10.1	1.7	81.3	1.5	3.0	2.3	100.0	6,861
Igbo	8.1	49.6	3.9	17.1	2.0	0.4	19.0	100.0	52.9	8.4	20.0	0.1	2.4	16.2	100.0	1,468
Yoruba	16.3	15.7	2.2	35.6	2.3	0.3	27.6	100.0	28.8	5.6	35.4	0.5	3.6	26.1	100.0	1,935
Other ethnic group	10.5	18.2	4.8	49.4	2.7	1.3	13.2	100.0	27.8	5.0	52.3	0.5	2.4	12.1	100.0	4,685

Table HA.11: Provider and location of circumcision (continued)

Percent distribution of circumcised men age 15-49 by person performing circumcision and the location where circumcision was performed, Nigeria, 2016-17

	Person performing circumcision:							Place of circumcision:							Number of men age 15-49 years who have been circumcised	
	Doctor	Nurse/ midwife	Other health professionals	Traditional circumciser	Traditional birth attendant	Other traditional	Missing /Don't know	Total facility	Home of a health worker/ professional		Other home/ site place		Missing /Don't know	Total		
									At	Ritual home/ site place	At	Ritual home/ site place				
Total	10.2	13.3	2.6	58.1	3.1	1.9	10.8	100.0	22.3	3.9	60.2	0.9	2.8	9.8	100.0	14,950
State																
Abia	19.0	28.6	0.8	11.5	1.3	2.2	36.7	100.0	56.5	4.3	17.1	0.0	2.9	19.2	100.0	138
Adamawa	17.7	2.2	1.1	76.2	0.5	0.0	2.3	100.0	18.3	2.4	76.7	0.6	0.2	1.8	100.0	384
Akwa Ibom	33.4	18.2	1.2	38.5	3.2	0.9	4.6	100.0	42.6	4.9	46.5	0.1	1.8	4.2	100.0	361
Anambra	1.3	84.3	10.4	2.8	0.3	0.0	1.0	100.0	72.5	21.1	6.0	0.0	0.0	0.3	100.0	240
Bauchi	0.1	2.6	0.3	96.9	0.0	0.0	0.1	100.0	2.4	0.0	97.5	0.0	0.0	0.1	100.0	681
Bayelsa	10.2	8.7	3.0	74.8	1.7	0.0	1.6	100.0	13.0	7.4	76.8	0.3	1.1	1.4	100.0	119
Benue	21.3	48.8	6.7	14.8	1.8	1.2	5.5	100.0	66.6	4.0	19.6	1.0	5.3	3.6	100.0	477
Borno	28.3	4.1	4.4	61.1	2.1	0.0	0.0	100.0	34.3	0.7	65.0	0.0	0.0	0.0	100.0	808
Cross River	4.5	20.6	1.1	47.0	18.0	0.0	8.9	100.0	19.8	7.6	61.2	0.3	2.2	8.9	100.0	272
Delta	6.4	14.6	0.0	19.0	0.4	0.6	59.1	100.0	18.6	3.0	22.7	0.0	0.3	55.4	100.0	257
Ebonyi	1.8	23.2	0.0	29.6	1.7	0.0	43.7	100.0	15.8	10.6	32.3	0.5	0.5	40.3	100.0	151
Edo	21.3	31.0	1.0	45.4	0.3	0.0	1.0	100.0	45.4	6.4	46.5	0.3	0.3	1.0	100.0	207
Ekiti	5.2	33.4	0.4	9.6	8.3	1.8	41.4	100.0	32.7	5.4	13.9	1.1	7.3	39.6	100.0	96
Enugu	3.5	61.4	1.9	21.9	1.7	0.0	9.7	100.0	61.9	4.4	24.4	0.0	0.8	8.5	100.0	187
Gombe	6.0	2.1	0.5	91.1	0.3	0.0	0.0	100.0	8.1	0.5	88.1	0.0	3.3	0.0	100.0	267
Imo	1.6	83.9	6.3	6.3	0.8	0.0	1.1	100.0	86.8	4.8	7.5	0.0	0.0	0.9	100.0	256
Jigawa	3.7	1.8	0.4	93.5	0.7	0.0	0.0	100.0	5.5	0.3	91.5	2.7	0.0	0.0	100.0	533
Kaduna	8.6	0.0	0.4	88.2	0.7	0.1	2.0	100.0	8.2	0.4	88.7	0.6	0.2	2.0	100.0	871
Kano	9.3	1.4	1.1	86.2	1.5	0.2	0.4	100.0	10.4	2.7	84.5	1.0	1.0	0.4	100.0	1,021

Table HA.11: Provider and location of circumcision (continued)

Percent distribution of circumcised men age 15-49 by person performing circumcision and the location where circumcision was performed, Nigeria, 2016-17

	Person performing circumcision:							Place of circumcision:							Number of men age 15-49 years who have been circumcised	
	Doctor	Nurse/ midwife	Other health professionals	Traditional circumciser	Traditional birth attendant	Other traditional	Missing /Don't know	Total facility	Home of a health worker/ professional	At home	Ritual site	Other home/ place	Missing /Don't know	Total circumcised		
Katsina	8.4	2.1	0.0	89.5	0.0	0.0	0.0	100.0	9.2	1.1	89.2	0.5	0.0	0.0	100.0	812
Kebbi	4.2	0.6	1.2	89.8	1.8	0.6	1.8	100.0	5.4	2.3	82.1	8.0	0.7	1.4	100.0	418
Kogi	4.2	23.3	18.9	49.7	0.9	0.6	2.3	100.0	27.8	14.7	51.4	0.4	4.1	1.7	100.0	243
Kwara	20.0	24.2	17.4	37.9	0.2	0.0	0.3	100.0	28.7	30.9	39.3	0.4	0.2	0.3	100.0	209
Lagos	13.8	21.2	2.3	27.5	4.2	0.0	31.0	100.0	29.4	6.2	26.0	0.1	8.8	29.5	100.0	801
Nasarawa	8.3	0.2	0.7	78.9	1.3	0.4	10.2	100.0	8.4	0.5	81.6	0.1	0.3	9.1	100.0	335
Niger	3.9	0.4	0.0	42.6	7.1	2.2	43.8	100.0	5.6	8.4	43.1	0.7	1.1	41.1	100.0	626
Ogun	15.3	7.1	0.8	57.3	0.7	0.8	17.9	100.0	20.0	3.2	55.1	0.3	3.2	18.2	100.0	200
Ondo	7.0	3.6	0.0	21.4	0.3	0.0	67.7	100.0	10.0	0.8	21.1	0.0	0.5	67.7	100.0	286
Osun	23.8	10.5	1.0	25.2	1.8	0.0	37.6	100.0	37.7	0.3	27.9	0.9	2.6	30.7	100.0	289
Oyo	16.3	14.5	0.9	53.7	2.6	0.4	11.6	100.0	25.3	6.5	52.2	1.4	1.3	13.3	100.0	490
Plateau	4.6	2.4	17.9	38.7	1.1	7.3	28.1	100.0	18.6	5.8	45.8	0.8	5.0	24.1	100.0	604
Rivers	1.0	69.7	1.5	19.6	4.1	0.0	4.1	100.0	67.0	4.4	19.2	0.2	6.7	2.5	100.0	432
Sokoto	0.9	0.4	0.8	50.8	44.2	0.0	3.0	100.0	2.1	4.6	84.1	0.0	7.7	1.4	100.0	358
Taraba	5.9	8.2	1.6	81.7	0.7	0.2	1.7	100.0	12.2	1.8	81.9	1.1	1.3	1.7	100.0	252
Yobe	6.4	0.0	0.6	61.1	1.4	30.1	0.4	100.0	7.2	0.9	74.6	0.0	17.3	0.0	100.0	526
Zamfara	4.3	1.1	0.2	84.2	3.3	6.8	0.0	100.0	5.4	0.6	79.4	5.2	9.0	0.4	100.0	608
FCT-Abuja	40.4	15.3	0.0	37.0	1.0	0.0	6.3	100.0	55.2	1.4	36.2	0.0	1.0	6.2	100.0	135

XIII. Access to Mass Media and Use of Information/Communication Technology

Access to Mass Media

Table MT.1: Exposure to mass media (women)

Percentage of women age 15-49 years who are exposed to specific mass media on a weekly basis, Nigeria, 2016-17

	Percentage of women age 15-49 years who:			All three media at least once a week ¹	Any media at least once a week	None of the media at least once a week	Number of women age 15-49 years
	Read a newspaper at least once a week	Listen to the radio at least once a week	Watch television at least once a week				
Total	8.0	39.4	39.8	5.5	54.2	45.7	34,376
Geopolitical zone							
North Central	6.2	26.2	36.1	4.4	43.1	56.6	6,006
North East	2.9	25.3	27.2	1.5	37.6	62.1	6,584
North West	5.2	43.2	26.2	3.4	50.2	49.8	10,932
South East	15.1	46.1	51.2	9.8	65.1	34.9	2,445
South South	15.9	45.0	65.1	12.4	72.5	27.3	3,668
South West	14.1	59.4	67.5	9.6	80.7	19.3	4,741
Age (years)							
15-19	8.8	37.7	43.3	5.5	56.4	43.5	6,822
20-24	9.3	38.7	41.5	6.1	55.2	44.7	5,816
25-29	8.3	40.3	40.3	5.9	54.4	45.5	5,915
30-34	8.4	40.9	40.8	5.8	55.5	44.3	5,390
35-39	6.7	38.9	36.7	5.0	51.6	48.3	4,339
40-44	6.7	40.0	35.6	4.6	51.7	48.1	3,571
45-49	5.9	40.7	34.1	4.4	50.6	49.2	2,524
Residence							
Urban	14.2	54.0	66.7	10.0	77.3	22.6	12,373
Rural	4.6	31.2	24.6	2.9	41.2	58.6	22,003
Education							
None	0.3	23.1	13.4	0.2	28.7	71.1	7,799
Non-formal	1.0	29.7	14.2	0.4	34.6	65.3	5,646

Primary	2.4	34.6	31.6	1.3	47.1	52.7	4,963
Secondary	11.6	48.6	59.8	7.8	72.0	27.9	12,466
Higher	32.0	65.7	80.1	23.2	89.3	10.6	3,502
Wealth index quintile							
Poorest	1.0	19.4	4.4	0.3	21.0	78.8	6,120
Second	1.6	24.2	8.8	0.6	28.2	71.6	6,478
Middle	5.0	34.3	26.6	2.6	46.6	53.2	6,708
Fourth	8.8	49.7	61.1	5.6	73.5	26.4	7,053
Richest	20.4	62.3	84.0	15.6	89.9	10.1	8,017
Ethnicity of household head							
Hausa	4.2	36.2	25.9	2.7	44.8	55.0	15,920
Igbo	16.8	48.5	58.3	11.1	70.4	29.6	3,558
Yoruba	13.8	61.3	68.4	9.7	81.4	18.5	4,380
Other ethnic group	8.4	32.1	42.6	6.1	51.6	48.2	10,518
1 MICS indicator 10.1 - Exposure to mass media							

Table MT.1: Exposure to mass media (women) (continued)

Percentage of women age 15-49 years who are exposed to specific mass media on a weekly basis, Nigeria, 2016-17

Percentage of women age 15-49 years who:

Read a newspaper at least once a week	Listen to the radio at least once a week	Watch television once a week	All three media at least once a week ¹	Any media at least once a week	None of the media at least once a week	Number of women age 15-49 years
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Total	8.0	39.4	39.8	5.5	54.2	45.7	34,376
State							
Abia	17.8	46.8	59.7	11.2	70.7	29.1	336
Adamawa	4.3	30.6	27.8	2.2	42.5	57.2	830
Akwa Ibom	21.3	52.1	59.8	17.4	70.4	29.3	834
Anambra	13.4	44.8	61.9	9.6	68.6	31.4	608
Bauchi	1.4	25.6	16.9	0.7	32.5	66.9	1,559
Bayelsa	10.5	31.5	48.0	6.7	57.6	42.0	260
Benue	5.3	28.9	35.4	3.3	44.6	55.3	956
Borno	4.2	39.9	48.8	2.8	58.7	41.3	1,984
Cross River	5.3	31.8	52.7	2.3	60.9	38.7	693
Delta	15.8	35.5	64.5	10.2	71.5	28.5	584
Ebonyi	10.7	37.2	27.5	7.7	44.9	55.1	400
Edo	22.2	55.3	84.1	19.3	85.6	14.3	494
Ekiti	11.8	59.2	56.4	8.4	73.2	26.8	216
Enugu	8.3	40.3	44.6	4.1	59.3	40.7	495
Gombe	2.3	16.0	16.3	1.4	24.4	74.9	562
Imo	23.8	57.5	56.9	15.3	76.4	23.6	606
Jigawa	2.8	25.8	12.7	2.0	29.0	70.8	1,313
Kaduna	6.6	67.9	45.7	4.4	79.9	20.0	2,076
Kano	5.9	51.7	24.0	3.8	55.8	44.1	2,389
Katsina	6.1	43.4	28.7	4.3	50.8	49.1	1,950
Kebbi	3.7	23.4	19.8	2.1	30.7	69.3	956
Kogi	7.5	23.2	26.0	3.0	37.3	62.6	632
Kwara	12.8	56.4	57.7	12.0	68.1	31.9	487
Lagos	20.7	55.6	82.4	13.8	87.0	13.0	1,725
Nasarawa	4.8	28.2	29.4	3.3	40.9	58.4	738
Niger	3.3	13.4	34.9	2.2	37.3	62.3	1,536
Ogun	11.4	60.3	64.0	8.6	77.2	22.8	474
Ondo	11.6	57.9	49.5	8.3	74.7	24.9	646
Osun	14.0	75.5	74.6	10.3	88.9	11.1	638
Oyo	6.8	56.2	53.8	3.6	72.1	27.9	1,042
Plateau	6.7	25.7	32.1	5.4	37.2	62.7	1,317
Rivers	17.1	53.8	75.5	14.9	82.3	17.7	803
Sokoto	3.9	29.1	17.6	1.8	36.9	63.1	912
Taraba	3.6	12.0	20.4	0.8	27.2	72.6	558
Yobe	1.6	5.8	11.2	0.4	14.8	84.7	1,091
Zamfara	5.0	30.2	20.4	3.5	36.7	63.1	1,337
FCT Abuja	11.6	36.6	61.5	7.7	68.0	31.9	340
¹ MICS indicator 10.1 - Exposure to mass media							

Table MT.1M: Exposure to mass media (men)

Percentage of men age 15-49 years who are exposed to specific mass media on a weekly basis, Nigeria, 2016-17

Percentage of men age 15-49 years who:

	Read a at least once a week	Listen to the Watch television media at least once a week	All three at least at least once a week	Any media media at least once week	None of the newspaper at once a a week ¹	radio Number of men age week 15-49 years	
Total	25.3	59.5	47.6	18.5	71.7	28.1	15,183
GeoPolitical zone							
North Central	20.0	54.0	41.6	14.2	63.7	35.8	2,730
North East	15.5	57.8	40.9	11.3	72.0	27.9	2,943
North West	16.6	49.3	32.5	11.2	59.2	40.6	4,674
South East	42.5	70.7	59.7	29.0	84.8	15.0	984
South South	38.3	70.9	70.0	30.6	85.0	15.0	1,664
South West	46.3	76.6	73.8	34.9	91.7	8.2	2,189
Age (year)							
15-19	15.3	42.0	46.2	10.2	61.3	38.2	3,508
20-24	26.6	54.6	49.9	17.7	69.8	30.1	2,378
25-29	30.0	61.7	49.2	20.8	74.1	25.8	2,191
30-34	30.0	65.0	50.0	22.7	75.3	24.7	2,078
35-39	29.9	69.8	48.4	22.4	77.1	22.9	1,936
40-44	28.4	71.3	46.8	23.0	77.8	21.7	1,724
45-49	24.1	71.5	40.5	19.5	76.6	23.3	1,368
Residence							
Urban	41.9	68.7	73.0	32.9	86.3	13.7	5,627
Rural	15.6	54.1	32.6	10.0	63.0	36.7	9,556
Education							
None	0.6	43.9	12.4	0.5	48.0	51.5	1,563
Non-formal	3.0	47.0	19.2	1.2	52.4	47.0	2,140
Primary	10.1	57.4	34.9	6.8	65.9	34.1	1,997
Secondary	28.0	60.6	57.5	19.6	77.2	22.6	6,861
Higher	63.1	77.7	75.3	49.1	91.3	8.6	2,622
Wealth index quintile							
Poorest	4.0	43.3	10.8	1.7	47.8	51.7	2,614
Second	9.2	47.7	20.1	4.2	55.1	44.5	2,901
Middle	16.9	56.3	41.4	10.0	69.2	30.6	2,927
Fourth	31.7	68.2	67.0	23.6	84.7	15.3	3,202
Richest	55.6	75.9	84.7	44.9	93.1	6.9	3,539
Ethnicity of household head							
Hausa	15.5	53.0	35.2	10.9	63.6	36.1	6,958
Igbo	44.7	69.3	64.2	31.5	85.4	14.4	1,488
Yoruba	44.0	76.8	73.6	33.6	90.2	9.6	1,980

Other ethnic group	25.9	58.7	49.6	19.2	71.4	28.5	4,757
¹ MICS indicator 10.1 - Exposure to mass media ^[M]							

Table MT.1M: Exposure to mass media (men), (continued)

Percentage of men age 15-49 years who are exposed to specific mass media on a weekly basis, Nigeria, 2016-17

Percentage of men age 15-49 years who:				Any media at least once a week	None of the media at least once a week	Number of men age 15-49 years
Read a newspaper at least once a week ¹	Listen to the radio at least once a week	All three newspaper at least once a week	Watch television at least once a week			

Total	25.3	59.5	47.6	18.5	71.7	28.1	15,183
State		78.2	71.0	27.6	92.0	8.0	
Abia	39.1						142
Adamawa	18.8	57.4	29.7	11.6	67.8	32.2	389
Akwa Ibom	43.9	70.1	74.9	35.8	87.8	12.2	365
Anambra	46.0	61.9	52.9	27.0	80.9	18.9	241
Bauchi	7.2	60.6	30.0	5.2	72.4	27.6	681
Bayelsa	25.6	54.3	59.7	19.0	71.3	28.5	121
Benue	20.7	41.1	36.5	15.7	50.7	49.3	481
Borno	25.6	50.7	67.7	22.8	73.3	26.7	813
Cross River	24.8	66.8	55.7	16.6	77.9	22.1	275
Delta	38.3	64.2	67.0	26.3	85.4	14.6	258
Ebonyi	31.5	71.8	37.5	22.4	75.3	24.7	152
Edo	42.9	63.9	67.0	38.7	74.6	25.4	209
Ekiti	35.8	83.0	71.4	30.4	91.1	8.9	96
Enugu	46.8	73.5	69.3	38.2	85.0	15.0	190
Gombe	14.1	57.4	29.0	10.1	63.8	35.9	268
Imo	44.3	72.2	65.9	28.5	89.7	9.5	260
Jigawa	9.3	34.5	12.8	4.9	37.9	61.9	534
Kaduna	11.0	25.8	35.6	7.7	42.8	56.5	898
Kano	25.6	66.5	44.9	19.9	74.0	25.9	1,028
Katsina	14.9	61.8	26.9	8.4	69.6	30.4	816
Kebbi	17.3	43.0	31.9	11.5	52.3	47.7	426
Kogi	15.7	24.4	15.9	9.5	29.5	69.2	275
Kwara	30.6	84.3	59.8	23.3	90.5	9.5	232
Lagos	63.1	70.4	85.7	44.7	95.5	4.5	808
Nasarawa	20.3	61.8	39.2	12.4	70.5	29.2	352
Niger	11.6	36.9	34.4	6.4	51.8	46.9	645
Ogun	42.9	81.6	77.5	35.8	92.2	7.8	206
Ondo	32.6	89.8	56.2	26.5	93.4	6.6	293
Osun	35.3	77.2	67.5	24.0	90.5	8.7	296
Oyo	37.2	75.4	67.5	30.7	84.9	15.1	490
Plateau	27.1	78.6	54.0	21.9	84.6	15.3	606
Rivers	43.3	86.2	81.0	37.0	95.5	4.5	436
Sokoto	15.6	56.9	24.7	8.1	65.2	34.8	358
Taraba	11.5	44.7	33.4	5.5	61.5	37.6	256
Yobe	11.2	71.9	31.7	4.7	81.7	18.3	537
Zamfara	18.2	51.1	36.3	12.7	64.6	35.4	613
FCT Abuja	15.9	59.4	65.0	10.8	78.9	21.1	139
¹ MICS indicator 10.1 - Exposure to mass media ^[M]							

Use of Information/Communication Technology

Table MT.2: Use of computers and internet (women)

Percentage of young women age 15-24 years who have ever used a computer and the internet, percentage who have used during the last 12 months, and percentage who have used at least once weekly during the last one month, Nigeria, 2016-17

Percentage of women age 15-24 years who have:							
	Used a computer during the last 12 months	Used a computer at least once a week during the last one month	Ever used a computer during the last 12 months	Used the internet during the last 12 months	Used the internet at least once a week during the last one month	Number of women computer months ¹	
Total	18.6	13.4	7.5	20.0	17.3	12.9	12,637
GeoPolitical zone							
North Central	17.3	13.2	7.7	18.5	15.5	11.0	2,212
North East	9.5	7.0	2.7	10.4	9.2	6.5	2,533
North West	8.0	6.0	3.9	7.2	6.2	4.6	4,208
South East	34.8	21.1	10.5	36.1	28.9	21.0	921
South South	31.7	23.0	13.8	36.7	32.0	23.0	1,290
South West	44.7	32.8	18.6	50.6	45.5	36.3	1,474
Age (year)							
15-19	18.4	13.4	7.4	18.4	16.0	11.3	6,822
20-24	18.8	13.5	7.6	21.9	18.8	14.7	5,816
Area							
Urban	34.9	26.4	15.2	37.9	33.8	25.8	4,631
Rural	9.1	5.9	3.1	9.6	7.7	5.4	8,007
Education							
None	0.3	0.1	0.0	0.4	0.1	0.1	2,215
Non-formal	0.4	0.1	0.1	0.3	0.2	0.2	1,734
Primary	1.2	0.7	0.2	1.0	0.6	0.4	1,313
Secondary	25.5	17.5	9.0	27.4	23.2	16.3	6,501
Higher	75.9	62.4	41.3	81.9	76.6	63.9	874
Wealth index quintile							
Poorest	1.3	0.6	0.4	0.8	0.6	0.4	1,988
Second	3.2	2.1	0.8	3.0	2.4	1.5	2,507
Middle	9.5	6.1	2.5	9.0	6.7	4.1	2,711
Fourth	22.5	14.8	6.9	25.8	21.4	15.1	2,636
Richest	49.8	38.5	24.1	54.0	48.9	38.3	2,796
Ethnicity of household head							
Hausa	7.0	4.9	3.0	7.3	5.9	4.2	6,088
Igbo	38.4	25.2	13.4	40.6	34.0	25.9	1,256
Yoruba	43.8	33.0	19.7	49.1	43.7	34.6	1,424
Other ethnic group	21.0	15.9	8.3	22.6	20.1	14.2	3,869

¹ MICS indicator 10.2 - Use of computers
² MICS indicator 10.3 - Use of internet

Table MT.2: Use of computers and internet (women), (continued)

Percentage of young women age 15-24 years who have ever used a computer and the internet, percentage who have used during the last 12 months, and percentage who have used at least once weekly during the last one month, Nigeria, 2016-17

Percentage of women age 15-24 years who have:

Used a computer during the Ever used a last month internet	Used a computer at least once a week during the last one month	Used the internet during the Ever used the last 12 months ²	Used the internet at least once a week during the Number of women computer months ¹
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Total	18.6	13.4	7.5	20.0	17.3	12.9	12,637
State							
Abia	40.1	23.6	11.9	45.1	37.4	24.8	108
Adamawa	5.1	3.8	1.6	5.1	4.4	2.1	310
Akwa Ibom	20.7	14.5	7.9	26.8	24.2	17.6	325
Anambra	44.4	32.7	16.1	47.1	38.3	30.5	228
Bauchi	5.8	4.0	3.0	4.0	3.7	2.5	607
Bayelsa	33.6	18.2	8.4	35.3	26.2	17.0	90
Benue	19.4	15.5	5.6	19.1	17.0	11.3	368
Borno	15.6	11.6	2.1	21.1	19.0	13.4	783
Cross River	36.7	31.6	18.6	32.1	28.9	16.4	248
Delta	25.1	14.2	9.1	22.5	18.4	14.0	202
Ebonyi	9.6	3.3	0.8	12.6	8.1	4.6	167
Edo	32.5	22.6	17.8	49.9	46.0	42.9	163
Ekiti	46.6	32.3	14.7	38.9	32.7	27.1	67
Enugu	30.4	19.7	7.9	26.0	21.4	12.1	198
Gombe	7.6	5.7	3.3	5.3	4.6	3.6	232
Imo	45.2	22.6	13.8	47.2	37.4	29.6	220
Jigawa	3.6	1.4	1.0	2.2	0.6	0.2	481
Kaduna	16.1	14.5	8.2	15.9	14.8	11.0	859
Kano	11.2	7.9	5.7	8.8	7.2	4.9	971
Katsina	3.1	1.5	1.0	3.4	3.0	2.6	729
Kebbi	5.3	3.6	3.3	4.0	3.6	3.3	361
Kogi	16.9	11.2	6.5	20.7	15.6	10.4	249
Kwara	31.8	23.9	16.3	35.3	28.1	24.0	155
Lagos	62.6	47.4	29.0	72.1	66.1	54.8	488
Nasarawa	10.4	8.6	5.7	11.5	10.2	7.0	283
Niger	12.8	11.2	6.4	11.3	10.6	6.9	534
Ogun	41.1	28.4	13.0	52.2	46.7	32.6	155
Ondo	36.4	24.8	13.8	41.0	32.5	22.9	206
Osun	33.6	24.9	12.8	36.9	34.3	26.6	250
Oyo	32.5	23.9	13.9	35.9	33.1	27.8	308
Plateau	17.2	10.4	6.7	19.6	14.6	11.0	497
Rivers	44.4	34.3	19.5	56.5	48.2	32.7	262
Sokoto	2.9	1.5	0.9	2.5	2.3	1.3	320
Taraba	10.2	7.4	2.3	6.6	4.7	3.2	207
Yobe	7.2	5.4	4.0	8.0	7.0	5.5	393
Zamfara	4.5	3.5	2.1	4.9	3.9	3.0	486
FCT Abuja	29.2	26.5	19.2	33.3	30.5	22.6	126
¹ MICS indicator 10.2 - Use of computers ² MICS indicator 10.3 - Use of internet							

Table MT.2M: Use of computers and internet (men)

Percentage of young men age 15-24 years who have ever used a computer and the internet, percentage who have used during the last 12 months, and percentage who have used at least once weekly during the last one month, Nigeria, 2016-17

Percentage of men age 15-24 years who have:							
	Used a computer during the last 12 months ¹	Used a computer at least once a week during the last one month ²	Used a computer at least once a week during the last one month ²	Used the internet during the last 12 months ¹	Used the internet at least once a week during the last one month ²	Used the internet at least once a week during the last one month ²	Number of men age 15-24 years
Total	26.5	20.6	14.2	36.5	32.0	26.2	5,887
GeoPolitical zone							
North Central	22.6	16.3	10.6	35.3	30.6	25.2	1,105
North East	18.4	15.4	11.3	26.2	22.2	17.7	1,193
North West	15.6	11.7	8.9	25.1	21.0	17.3	1,869
South East	35.0	27.7	15.3	44.6	40.2	29.1	384
South South	43.3	31.5	20.8	55.6	47.1	36.7	601
South West	55.0	45.2	31.5	64.0	61.6	54.2	735
Age (Years)							
15-19	21.6	15.9	10.4	29.8	25.7	20.3	3,508
20-24	33.7	27.5	19.8	46.4	41.3	35.0	2,378
Residence							
Urban	43.4	35.4	26.0	54.3	49.0	41.9	2,128
Rural	16.9	12.2	7.5	26.4	22.4	17.4	3,759
Education							
None	1.0	0.9	0.0	3.1	1.3	0.4	537
Non-formal	1.2	0.5	0.5	4.7	2.6	2.1	673
Primary	2.6	1.1	.7	7.7	4.5	3.7	563
Secondary	31.0	22.5	14.6	43.9	38.3	30.5	3,568
Higher	78.4	72.2	56.1	89.7	86.6	76.6	544
Wealth index quintile							
Poorest	4.7	3.7	2.0	9.0	7.1	5.3	1,106
Second	9.2	7.0	3.7	18.1	14.7	11.0	1,132
Middle	18.0	10.9	6.9	31.8	25.9	20.4	1,226
Fourth	33.5	25.1	16.8	48.5	42.7	33.8	1,219
Richest	64.4	54.0	39.9	71.7	66.8	58.1	1,203
Ethnicity of household head							
Hausa	14.2	10.9	7.8	24.0	19.4	15.3	2,786
Igbo	41.2	32.2	20.4	49.4	45.2	35.5	556
Yoruba	56.3	45.6	31.7	65.2	62.6	53.7	701
Other ethnic group	29.3	22.2	15.3	40.5	35.5	29.4	1,844
¹ MICS indicator 10.2 - Use of computers ² MICS indicator 10.3 - Use of internet							

Table MT.2M: Use of computers and internet (men) (continued)

Percentage of young men age 15-24 years who have ever used a computer and the internet, percentage who have used during the last 12 months, and percentage who have used at least once weekly during the last one month, Nigeria, 2016-17

	Percentage of men age 15-24 years who have:						
	Used a computer during the last 12 months ¹	Used a computer at least once a week during the last one month ²	Used the internet during the last 12 months ¹	Used the internet at least once a week during the last one month ²	Number of men age 15-24 years	Computer months ¹	Internet months ²
Total	26.5	20.6	14.2	36.5	32.0	26.2	5,887
State							
Abia	57.1	39.0	21.2	73.7	64.1	53.5	54
Adamawa	21.9	15.3	10.5	39.5	35.8	32.8	158
Akwa Ibom	27.4	14.7	11.0	42.1	31.9	22.7	138
Anambra	29.4	25.2	10.3	50.5	48.7	33.8	92
Bauchi	9.3	8.8	2.3	23.9	15.3	8.3	286
Bayelsa	28.8	21.7	10.8	63.8	57.3	44.9	43
Benue	19.9	12.4	8.4	24.3	18.8	15.9	184
Borno	28.1	25.7	23.2	27.4	27.4	22.5	294
Cross River	21.7	17.8	7.5	46.1	34.4	25.6	102
Delta	64.6	53.2	35.7	70.6	68.6	53.4	99
Ebonyi	33.1	27.7	18.8	31.6	25.2	16.9	57
Edo	52.8	49.4	37.9	64.9	63.3	55.0	67
Ekiti	56.7	41.6	25.0	51.1	47.1	45.1	31
Enugu	31.3	22.2	7.1	20.6	16.2	5.0	83
Gombe	8.9	8.5	6.5	15.2	13.0	9.1	118
Imo	32.3	28.3	21.6	50.9	47.9	39.0	98
Jigawa	2.8	1.2	1.2	12.3	9.0	9.0	214
Kaduna	18.3	9.3	8.3	21.2	12.8	10.5	361
Kano	18.8	16.3	12.5	35.5	32.9	25.9	452
Katsina	20.8	17.1	8.2	30.8	28.1	26.9	263
Kebbi	15.0	10.5	9.8	19.5	15.1	12.8	180
Kogi	29.5	26.5	12.0	28.6	24.4	15.0	126
Kwara	56.7	42.4	30.2	65.9	61.6	47.1	93
Lagos	64.2	58.4	40.1	67.3	64.7	57.4	226
Nasarawa	11.2	9.5	5.6	36.8	29.0	28.0	139
Ogun	48.4	39.5	27.4	63.2	60.2	45.0	83
Ondo	36.7	22.3	13.3	67.1	65.3	55.6	92
Osun	51.3	46.5	31.5	71.2	70.2	62.9	135
Oyo	58.7	42.3	33.1	55.0	52.1	48.4	168
Plateau	24.2	14.6	9.7	44.7	43.2	38.0	272
Rivers	58.4	36.8	24.1	57.9	45.6	35.6	152
Sokoto	9.4	8.1	5.6	18.3	16.9	12.8	152
Taraba	14.3	7.7	3.9	16.2	13.4	10.8	91
Yobe	21.1	16.9	13.0	27.9	23.0	19.6	247
Zamfara	15.5	13.3	12.0	25.1	20.8	14.6	248
FCT Abuja	31.3	29.8	22.2	52.1	49.1	32.1	52

¹ MICS indicator 10.2 - Use of computers [M]
² [M]

XIV. Subjective well-being

Table SW.1: Domains of life satisfaction (women)

Percentage of women age 15-24 years who are very or somewhat satisfied in selected domains of satisfaction, Nigeria, 2016-17

	Percentage of women age 15-24 years who are very or somewhat satisfied in selected domains:						Percentage of women age 15-24 years who:			Number of women age 15-24 years who are very or somewhat satisfied		Number of women age 15-24 years who are very or somewhat satisfied		Percentage of women age 15-24 years who are very or somewhat satisfied		
	Very satisfied	Somewhat satisfied	Very dissatisfied	Somewhat dissatisfied	Very satisfied	Somewhat satisfied	Very dissatisfied	Somewhat dissatisfied	Very satisfied	Somewhat satisfied	Very dissatisfied	Somewhat dissatisfied	Very satisfied	Somewhat satisfied	Very dissatisfied	Somewhat dissatisfied
Total	89.5	88.3	92.9	85.1	86.8	93.9	38.7	22.5	26.1	12,637	91.9	4,890	84.5	2,848	77.0	3,304
Geopolitical zone																
North Central	89.3	89.5	92.8	84.2	87.2	95.6	42.9	22.8	27.3	2,212	92.1	950	84.1	504	81.8	603
North East	88.0	88.7	92.5	85.6	86.7	93.5	30.1	9.5	11.2	2,533	91.4	763	87.9	241	81.1	284
North West	92.6	90.2	92.7	92.4	89.7	93.5	31.8	24.6	32.7	4,208	95.2	1,338	87.3	1,036	81.3	1,377
South East	85.1	80.6	91.3	73.8	80.7	92.0	54.8	22.1	22.0	921	85.8	505	67.0	204	52.4	203
South South	88.7	87.0	93.5	79.7	85.8	93.8	50.2	21.8	24.0	1,290	91.2	648	79.5	282	69.1	309
South West	87.3	86.1	95.1	76.4	82.8	94.5	46.6	39.4	35.8	1,474	90.9	686	87.2	581	72.3	528
Age (years)																
15-19	90.5	88.6	93.7	86.1	87.4	94.0	54.3	16.8	19.5	6,822	91.6	3,706	86.4	1,144	80.1	1,330
20-24	88.4	87.9	92.0	83.9	86.2	93.8	20.4	29.3	33.9	5,816	92.6	1,184	83.3	1,704	75.0	1,974
Residence																
Urban	89.3	87.9	93.3	82.1	86.0	94.2	51.5	25.3	26.6	4,631	93.5	2,385	84.1	1,169	75.7	1,233
Rural	89.7	88.4	92.8	86.8	87.2	93.7	31.3	21.0	25.9	8,007	90.3	2,506	84.8	1,679	77.9	2,071
Marital Status																

Ever married/in union	90.1	89.0	92.0	88.0	87.8	93.7	10.6	25.7	32.7	5,365	96.1	570	86.5	1,378	79.4	1,756
Never married/in union	89.2	87.7	93.7	82.9	86.0	94.1	59.5	20.2	21.2	7,222	91.3	4,298	82.5	1,457	74.1	1,533

Table SW.1: Domains of life satisfaction (women) continued

Percentage of women age 15-24 years who are very or somewhat satisfied in selected domains of satisfaction, Nigeria, 2016-17

Percentage of women age 15-24 years who are very selected domains:	Percentage of women age 15-24 years who are very		Number women age 15-24	Percentage of women age 15-24 years who are very		Number women age 15-24	Percentage of or somewhat satisfied in Number of 15-24 years women	
	15-24	who are very		15-24	who are very		15-24	who are very
The way attending school	90.1	89.0	5,365	96.1	570	96.1	570	86.5
Have an income	89.2	87.7	7,222	91.3	4,298	91.3	4,298	82.5
Attending school	92.0	93.7	5,365	96.1	570	96.1	570	86.5
Job	88.0	82.9	5,365	96.1	570	96.1	570	86.5
Family living	87.8	86.0	5,365	96.1	570	96.1	570	86.5
Treatment	93.7	94.1	5,365	96.1	570	96.1	570	86.5
Friends	10.6	59.5	5,365	96.1	570	96.1	570	86.5
Health	25.7	20.2	5,365	96.1	570	96.1	570	86.5
Environment	32.7	21.2	5,365	96.1	570	96.1	570	86.5
Others	5,365	7,222	5,365	96.1	570	96.1	570	86.5
They look	96.1	91.3	5,365	96.1	570	96.1	570	86.5
School	570	4,298	5,365	96.1	570	96.1	570	86.5
Job	86.5	1,457	5,365	96.1	570	96.1	570	86.5

Total	89.5	88.3	92.9	85.1	86.8	93.9	38.7	22.5	26.1	12,637	91.9	4,890	84.5	2,848	77.0	3,304
State																
Abia	90.8	86.3	92.7	76.6	79.9	96.5	48.2	27.6	27.6	108	85.1	52	66.0	30	58.5	30
Adamawa	95.4	94.0	94.8	95.0	91.9	96.0	35.7	13.5	19.0	310	92.2	111	(92.7)	42	90.6	59
Akwa Ibom	92.7	86.7	89.5	87.9	83.8	92.4	40.4	27.5	33.8	325	94.0	131	88.8	89	82.5	110
Anambra	80.7	83.0	91.6	72.1	78.5	95.7	56.2	24.0	24.0	228	84.1	128	74.9	55	65.3	55
Bauchi	94.7	89.8	95.7	92.6	89.9	96.8	18.3	6.6	8.0	607	97.4	111	(90.0)	40	(91.4)	49
Bayelsa	82.1	85.3	91.1	60.6	81.5	93.5	39.3	18.7	21.0	90	72.6	35	(47.8)	17	43.7	19
Benue	91.2	91.4	94.3	90.9	91.4	92.9	48.1	13.4	24.1	368	94.7	177	(89.2)	49	82.8	89
Borno	80.3	90.9	92.2	74.8	84.2	92.1	38.0	11.1	7.2	783	89.3	297	(*)	87	(*)	56
Cross River	92.4	87.7	95.5	81.7	87.6	92.2	58.4	13.8	14.6	248	96.7	145	(72.9)	34	(63.2)	36
Delta	88.2	84.6	97.6	76.5	86.2	94.0	57.9	22.5	23.8	202	92.5	117	89.1	45	76.1	48
Ebonyi	79.8	71.3	85.4	65.0	78.9	77.8	53.6	26.6	26.4	167	74.3	90	53.8	44	27.5	44
Edo	90.4	90.9	96.3	88.5	87.6	95.9	67.2	27.3	27.0	163	93.7	109	83.5	44	70.0	44
Ekiti	85.4	88.5	95.8	86.1	87.4	92.6	48.3	27.1	24.5	67	97.1	32	(88.8)	18	(77.9)	16
Enugu	88.4	76.1	90.1	69.8	83.2	92.3	53.4	16.3	16.8	198	89.4	106	(59.5)	32	(48.2)	33
Gombe	81.4	82.0	89.5	80.5	78.9	86.6	25.0	5.3	12.0	232	85.7	58	(*)	12	(76.1)	28
Imo	87.8	86.6	95.9	84.3	82.3	96.4	58.7	19.3	18.6	220	92.8	129	(77.1)	42	(61.0)	41
Jigawa	94.0	92.1	91.0	91.8	87.4	87.4	24.4	14.6	17.2	481	89.5	117	91.5	70	76.0	83
Kaduna	93.7	86.6	95.0	90.1	89.2	96.0	38.7	13.4	26.2	859	97.2	332	82.1	115	75.6	225
Kano	87.5	86.5	87.7	90.3	86.4	90.0	33.8	21.7	38.8	971	92.8	328	84.1	210	75.3	377

() Sample data are based on 25-49 unweighted cases

(*) Sample data are fewer than 25 unweighted cases

Table SW.1: Domains of life satisfaction (women) continued.

Percentage of women age 15-24 years who are very or somewhat satisfied in selected domains of satisfaction, Nigeria, 2016-17

	Percentage of women Percentage of women age 15-24 years who who: 15-24 years	Percentage of women age 24 years who	Percentage of women age 15-24 years who	Percentage of women age 15-24 years who	Percentage of women age 15-24 years who	Percentage of women age 15-24 years who	Percentage of women age 15-24 years who	Percentage of women age 15-24 years who	Percentage of women age 15-24 years who	Percentage of women age 15-24 years who	Percentage of women age 15-24 years who	Percentage of women age 15-24 years who	Percentage of women age 15-24 years who	Percentage of women age 15-24 years who	Percentage of women age 15-24 years who	Percentage of women age 15-24 years who	Percentage of women age 15-24 years who

The who are very age 15- are very women are very age 15-24 way Are Have Number of or somewhat 24 years or somewhat age 15-24 or somewhat years who Family Living Treatment they attending Have a an women age satisfied with attending satisfied with years who satisfied with have an life Friendships Health environment by others look school job income 15-24 years school school their job have a job their income income

State																
Katsina	92.0	91.1	93.5	92.5	88.2	93.1	27.2	39.3	40.0	729	97.9	199	90.3	287	88.3	292
Kebbi	92.6	88.7	94.4	92.3	88.9	94.7	31.4	34.1	36.0	361	93.9	113	94.9	123	90.3	130
Kogi	82.9	82.9	87.1	75.0	80.3	92.0	54.2	25.5	28.6	249	87.2	135	69.1	63	72.6	71
Kwara	90.8	92.6	92.3	86.8	90.1	93.2	48.7	25.1	26.3	155	90.7	76	86.3	39	85.2	41
Lagos	88.3	85.0	94.8	69.1	79.9	94.0	40.7	38.9	36.1	488	92.6	199	85.1	190	70.3	176
Nasarawa	92.2	87.9	95.8	82.8	84.7	97.9	35.6	24.0	35.0	283	92.8	101	87.3	68	81.0	99
Niger	85.5	91.2	93.0	85.5	88.1	97.7	31.6	31.6	33.7	534	93.4	169	85.7	169	87.3	180
Ogun	89.1	80.1	97.2	85.0	86.5	94.5	44.3	43.6	39.5	155	94.4	69	84.1	68	76.5	61
Ondo	90.5	89.0	94.6	81.6	83.4	95.0	52.5	38.6	34.1	206	94.1	108	85.9	80	66.2	70
Osun	85.6	87.3	97.0	85.1	86.3	96.0	50.4	44.8	40.3	250	91.1	126	90.5	112	83.0	101
Oyo	84.7	87.3	93.2	71.1	81.4	94.0	49.4	37.1	33.6	308	83.2	152	90.0	114	66.1	103
Plateau	92.9	90.7	93.1	83.5	89.1	97.8	46.6	20.1	20.8	497	91.5	231	88.3	100	80.8	103
Rivers	81.7	86.6	92.7	71.2	86.9	95.5	42.0	19.7	19.9	262	82.6	110	(66.1)	52	(47.2)	52
Sokoto	95.8	96.8	95.6	97.1	98.4	98.6	27.9	23.2	27.1	320	95.4	89	97.4	74	95.6	87
Taraba	90.9	80.3	80.1	85.8	75.7	91.3	37.1	18.7	30.8	207	86.7	77	98.8	39	66.0	64
Yobe	89.5	87.0	94.7	91.8	92.7	94.4	27.9	5.5	7.3	393	96.5	110	(*)	22	(*)	29
Zamfara	98.3	97.2	95.9	97.6	96.3	98.9	32.8	32.2	37.7	486	97.3	160	76.9	157	78.8	183
FCT-Abuja	89.6	84.7	91.5	80.7	80.6	90.1	48.5	12.6	15.7	126	94.4	61	64.8	16	63.4	20

() Sample data are based on 25-49 unweighted cases

(*) Sample data are fewer than 25 unweighted cases

Table SW.1M: Domains of life satisfaction (men)

Percentage of men age 15-24 years who are very or somewhat satisfied in selected domains of satisfaction, Nigeria, 2016-17

	Percentage of men age 15-24 years who are very or somewhat satisfied in selected domains:						Percentage of men age 15-24 years who:				Number of men age 15-24 years attending school		Percentage of men age 15-24 years who are very or somewhat satisfied with their job		Percentage of men age 15-24 years who have an income		
	who have a life	Family Friendships	Living Health	Treatment environment	The way by others	attending school	Have a job	Are an job	Have age 15-24 income	of men years	Number	or somewhat satisfied with school	years attending their job	or somewhat satisfied with job	15-24 years who have an income	or somewhat satisfied with their	very 15-24 years have an
Total	88.9	88.3	92.1	84.3	86.7	93.1	51.1	47.6	50.9	5887		90.5	3008	81.2	2803	72.7	2,998
Geopolitical zone																	
North Central	89.0	90.3	90.1	85.1	89.3	91.4	53.5	44.5	45.4	1105		90.8	591	81.6	491	76.1	501
North East	88.4	90.5	96.2	93.5	90.2	97.3	50.7	40.4	47.0	1193		97.9	605	82.4	482	74.6	560
North West	88.0	85.9	87.8	83.3	84.9	89.2	47.6	64.4	68.7	1869		87.9	890	82.8	1204	74.2	1,285
South East	88.8	81.8	90.2	79.7	75.8	95.7	59.6	35.2	36.6	384		89.6	229	68.2	135	55.1	140
South South	91.5	92.4	96.4	78.5	87.6	95.4	50.5	29.3	28.2	601		92.0	303	72.5	176	61.1	169
South West	89.9	87.5	97.0	77.7	86.9	95.7	53.1	42.8	46.6	735		84.1	390	82.6	314	71.9	342
Age (years)																	
15-19	89.1	88.6	92.4	84.9	86.6	93.0	61.2	39.8	42.5	3508		90.1	2145	82.5	1397	75.4	1,489
20-24	88.7	87.8	91.6	83.4	86.9	93.2	36.3	59.1	63.4	2378		91.6	862	79.9	1406	70.0	1,509
Residence																	
Urban	88.9	87.9	92.2	85.3	86.5	94.1	59.9	40.0	44.3	2128		91.6	1274	82.5	852	71.7	942
Rural	88.9	88.5	92.0	83.7	86.9	92.5	46.1	51.9	54.7	3759		89.7	1734	80.6	1951	73.2	2,055
Marital Status																	
Ever married/in union	85.9	83.1	85.7	82.9	85.7	93.6	15.1	84.9	85.9	277		81.9	42	80.7	235	71.7	238
Never married/in union	89.1	88.6	92.5	84.4	86.8	93.1	52.9	45.8	49.2	5607		90.6	2966	81.2	2567	72.8	2,759

Table SW.1M: Domains of life satisfaction (men)

Percentage of men age 15-24 years who are very or somewhat satisfied in selected domains of satisfaction, Nigeria, 2016-17

Percentage of men age 15-24 years who are very or somewhat satisfied in selected domains: 15-24 years who:

	Family life	Friendships	Health	Living environment	Treatment by others	The way they look	Are attending school	Have a job	Have an income	Number of men age 15-24 years	Percentage of men age 15-24 years who are very or somewhat satisfied with school	Number of men age 15-24 years attending school	Percentage of men age 15-24 years who are very or somewhat satisfied with their job	Number of men age 15-24 years who have a job	Percentage of men age 15-24 years who are very or somewhat satisfied with income	Number of men age 15-24 years who have an income
Education																
None	80.2	82.7	91.0	87.7	83.6	94.1	9.9	65.4	70.2	537	93.9	53	74.2	351	65.8	377
Non-formal	89.2	90.2	89.7	86.7	88.4	90.9	37.4	64.7	63.6	673	89.5	252	88.2	436	79.9	428
Primary	86.6	85.7	89.0	79.0	84.3	88.8	37.5	57.7	60.0	563	87.6	211	75.3	325	69.2	338
Secondary	90.2	89.3	93.0	84.2	87.2	93.6	59.0	41.8	44.8	3568	90.6	2105	82.1	1492	73.6	1,599
Higher	91.2	87.3	93.2	84.1	87.1	96.2	70.8	36.6	46.9	544	91.7	385	80.2	199	70.0	255
Wealth index quintile																
Poorest	87.7	88.3	90.7	87.4	86.8	91.6	34.5	61.6	63.4	1106	91.7	382	80.3	681	74.2	701
Second	88.2	87.7	92.3	85.1	87.2	92.0	42.4	54.5	59.4	1132	90.9	480	81.6	617	75.2	672
Middle	89.2	87.8	90.8	83.2	87.7	93.6	59.8	47.0	49.1	1226	90.1	733	80.6	576	73.5	602
Fourth	88.5	88.6	92.4	81.3	85.5	93.6	60.4	41.9	44.3	1219	90.0	736	81.7	511	71.1	541
Richest	90.8	88.9	94.3	84.8	86.5	94.6	56.2	34.8	40.1	1203	90.6	677	82.0	419	67.9	483
Ethnicity of household head																
Hausa	87.9	87.9	90.6	88.0	86.9	92.3	47.7	55.7	60.3	2786	92.0	1328	82.4	1551	74.0	1,681
Igbo	87.8	82.6	90.7	77.9	78.6	94.9	51.8	39.7	40.3	556	88.9	288	69.6	221	52.7	224
Yoruba	90.4	88.6	96.3	75.6	86.6	95.2	60.5	39.9	43.6	701	83.0	423	84.5	280	74.6	305
Other ethnic group	90.2	90.4	93.2	83.9	89.0	93.0	52.5	40.8	42.7	1844	92.2	968	80.7	752	75.0	787

Kano	90.1	89.9	92.7	83.2	86.2	94.6	55.0	54.4	54.5	452	86.7	248	78.4	246	72.3	246
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() Sample data are based on 25-49 unweighted cases

(*) Sample data are fewer than 25 unweighted cases

Table SW.1M: Domains of life satisfaction (men) continued.

Percentage of men age 15-24 years who are very or somewhat satisfied in selected domains of satisfaction, Nigeria, 2016-17

Percentage of men age 15-24 years who are very or somewhat satisfied in selected domains:	Percentage of men age 15-24 years who are very or somewhat satisfied in selected domains:	Number of men age 15-24 years who are very or somewhat satisfied in selected domains:	Percentage of men age 15-24 years who are very or somewhat satisfied in selected domains:	Percentage of men age 15-24 years who are very or somewhat satisfied in selected domains:
Are	Have an income	Number of men age 15-24 years	Number of men age 15-24 years who are very or somewhat satisfied in selected domains:	Percentage of men age 15-24 years who are very or somewhat satisfied in selected domains:

Family Living Treatment The way attending Have a life Friendships Health or somewhat atten(environment by others they look school job satisfied with school sch 128

98.5

State

Katsina	100.0	98.4	96.4	93.9	96.8	100.0	48.6	58.4	75.1	263			68.5	154	45.5	198
Kebbi	75.4	83.2	77.6	71.9	72.5	72.4	50.4	77.8	83.5	180	83.0	91	79.2	140	78.0	150
Kogi	90.8	90.8	92.0	90.3	89.4	91.2	72.7	29.1	28.5	126	94.9	92	89.5	37	74.2	36
Kwara	83.1	85.5	84.3	54.3	72.8	91.0	65.1	42.2	42.9	93	68.4	60	69.3	39	74.1	40
Lagos	89.4	89.7	97.4	79.6	91.7	96.5	37.8	30.8	31.5	226	91.5	85	86.3	70	59.9	71
Nasarawa	100.0	100.0	97.9	98.7	98.5	100.0	64.9	37.9	32.6	139	98.8	90	99.4	53	99.3	45
Niger	85.8	86.8	84.0	83.4	86.4	88.3	52.3	44.2	49.9	239	91.1	125	77.0	106	75.9	119
Ogun	97.9	90.2	97.2	83.2	85.8	93.9	56.1	62.4	73.0	83	88.4	47	91.3	52	87.7	61
Ondo	96.1	94.1	100.0	84.3	93.6	97.6	54.9	28.0	30.7	92	83.7	51	(65.9)	26	(60.6)	28
Osun	93.2	87.3	96.7	83.4	92.4	95.2	69.6	50.9	52.9	135	91.8	94	92.0	69	91.5	71
Oyo	81.0	78.6	94.5	63.8	73.1	95.0	57.2	52.6	58.8	168	65.7	96	72.1	89	59.4	99
Plateau	88.9	96.6	98.5	95.4	99.5	99.2	46.0	48.9	46.0	272	98.3	125	81.2	133	71.8	125
Rivers	92.0	92.8	94.0	81.3	87.6	92.3	46.7	33.7	33.8	152	98.2	71	(74.9)	51	(58.4)	51
Sokoto	99.6	99.6	99.6	99.6	97.7	98.5	31.1	78.1	80.6	152	(100.0)	47	97.9	119	95.8	122
Taraba	87.2	84.3	81.7	73.6	78.1	89.7	40.0	47.3	64.6	91	89.3	36	78.5	43	67.6	59
Yobe	92.8	92.9	96.5	97.8	97.5	97.5	64.1	11.6	22.3	247	98.5	158	(100.0)	29	(93.9)	55
Zamfara	92.4	91.8	85.0	85.5	90.9	92.6	40.6	53.3	60.6	248	93.6	100	84.3	132	81.1	150
FCT-Abuja	98.2	95.8	98.8	89.3	98.2	99.4	64.8	21.2	23.1	52	97.6	34	(69.4)	11	(67.1)	12

() Sample data are based on 25-49 unweighted cases

Table SW.2: Overall life satisfaction and happiness (women)

Percentage of women age 15-24 years who are very or somewhat satisfied with their life overall, the average overall life satisfaction score, and percentage of women age 15-24 years who are very or somewhat happy, Nigeria, 2016-17

	Percentage of satisfaction life satisfaction ¹	Average life who are very or score	Percentage of women with overall Number of women age somewhat happy ² 15-24 years	
Total	88.5	1.6	91.0	12,637
Geopolitical zone				
North Central	89.0	1.6	90.6	2,212
North East	85.2	1.7	89.1	2,533
North West	92.6	1.4	95.1	4,208
South East	81.7	1.7	90.8	921
South South	86.5	1.7	89.3	1,290
South West	87.6	1.6	85.1	1,474
Age (years)				
15-19	89.9	1.5	91.4	6,822
20-24	86.9	1.6	90.6	5,816
Residence				
Urban	88.9	1.6	89.4	4,631
Rural	88.3	1.6	92.0	8,007
Marital Status				
Ever married/in union	89.1	1.6	92.5	5,365
Never married/in union	88.1	1.6	90.0	7,222
Education				
None	88.1	1.5	93.4	2,215
Non-formal	91.1	1.5	92.0	1,734
Primary	87.1	1.6	88.5	1,313
Secondary	88.3	1.6	90.8	6,501
Higher	87.8	1.6	88.6	874
Wealth index quintile				
Poorest	90.0	1.5	94.3	1,988
Second	87.6	1.6	91.0	2,507
Middle	86.4	1.7	89.1	2,711
Fourth	89.0	1.6	90.9	2,636
Richest	89.8	1.5	90.7	2,796
Ethnicity of household head				
Hausa	90.3	1.5	93.3	6,088
Igbo	82.7	1.7	90.1	1,256
Yoruba	88.2	1.6	85.7	1,424
Other ethnic group	87.7	1.7	89.8	3,869

¹ MICS Indicator 11.1 - Life satisfaction ² MICS indicator 11.2 – Happiness

Table SW.2: Overall life satisfaction and happiness (women) continued.

Percentage of women age 15-24 years who are very or somewhat satisfied with their life overall, the average overall life satisfaction score, and percentage of women age 15-24 years who are very or somewhat happy, Nigeria, 2016-17

	Percentage of satisfaction score	Average life who are very or somewhat happy ² 15-24 years	Percentage of women with overall life satisfaction ¹	Number of women age 15-24 years
Total	88.5	1.6	91.0	12,637
State				
Abia	87.2	1.6	90.8	108
Adamawa	93.4	1.5	93.8	310
Akwa Ibom	82.6	1.8	94.7	325
Anambra	82.6	1.7	85.1	228
Bauchi	85.4	1.5	95.1	607
Bayelsa	75.3	2.1	86.8	90
Benue	91.6	1.5	91.9	368
Borno	79.1	1.9	80.3	783
Cross River	91.6	1.5	91.5	248
Delta	90.7	1.6	86.0	202
Ebonyi	68.7	2.2	90.1	167
Edo	90.2	1.5	94.8	163
Ekiti	89.1	1.6	80.9	67
Enugu	82.2	1.7	95.0	198
Gombe	77.9	1.8	84.9	232
Imo	87.5	1.5	93.6	220
Jigawa	88.2	1.5	97.1	481
Kaduna	93.9	1.4	95.8	859
Kano	89.6	1.5	91.2	971
Katsina	93.0	1.4	94.5	729
Kebbi	92.6	1.5	95.6	361
Kogi	81.4	2.0	86.7	249
Kwara	94.3	1.4	91.6	155
Lagos	85.2	1.8	85.1	488
Nasarawa	85.7	1.7	90.6	283
Niger	86.5	1.8	88.7	534
Ogun	90.6	1.4	88.3	155
Ondo	90.1	1.6	91.8	206
Osun	88.3	1.5	81.1	250
Oyo	87.2	1.7	83.1	308
Plateau	95.7	1.3	93.7	497
Rivers	85.1	1.9	80.5	262
Sokoto	96.6	1.2	96.9	320
Taraba	89.6	1.6	91.5	207
Yobe	92.4	1.4	95.0	393
Zamfara	97.8	1.2	99.2	486

FCT-Abuja	82.2	1.7	89.3	126
<p>1 MICS Indicator 11.1 - Life satisfaction 2 MICS indicator 11.2 – Happiness</p>				

Table SW.2M: Overall life satisfaction and happiness (men)			
Percentage of men age 15-24 years who are very or somewhat satisfied with their life overall, the average overall life satisfaction score, and percentage of men age 15-24 years who are very or somewhat happy, Nigeria, 2016-17			
Percentage of men with overall life satisfaction score	Average life satisfaction score	Percentage of men who are very or somewhat happy	Number of men age 15-24 years

Total	89.6	1.6	90.7	5,887
Geopolitical zone				
North Central	86.6	1.6	93.1	1,105
North East	95.4	1.4	89.6	1,193
North West	86.7	1.6	90.5	1,869
South East	90.4	1.5	90.6	384
South South	91.8	1.5	93.4	601
South West	89.6	1.6	87.2	735
Age (years)				
15-19	90.0	1.5	90.7	3,508
20-24	89.0	1.6	90.7	2,378
Residence				
Urban	89.4	1.5	89.7	2,128
Rural	89.7	1.6	91.3	3,759
Marital Status				
Ever married/in union	84.9	1.7	87.6	277
Never married/in union	89.8	1.5	90.9	5,607
Education				
None	88.5	1.6	83.6	537
Non-formal	91.3	1.6	93.5	673
Primary	84.3	1.7	85.9	563
Secondary	90.0	1.5	91.9	3,568
Higher	91.0	1.5	91.4	544
Wealth index quintile				
Poorest	90.6	1.5	91.0	1,106
Second	89.9	1.6	91.0	1,132
Middle	87.8	1.6	90.3	1,226
Fourth	89.5	1.6	91.3	1,219
Richest	90.2	1.5	90.1	1,203
Ethnicity of household head				
Hausa	89.2	1.5	90.0	2,786
Igbo	88.4	1.6	88.7	55
Yoruba	88.7	1.7	88.3	701
Other ethnic group	90.8	1.5	93.3	1,844
¹ MICS Indicator 11.1 - Life satisfaction ^[M] ² ^[M] MICS indicator 11.2 - Happiness				

Table SW.2M: Overall life satisfaction and happiness (men) continued.

Percentage of men age 15-24 years who are very or somewhat satisfied with their life overall, the average overall life satisfaction score, and percentage of men age 15-24 years who are very or somewhat happy, Nigeria, 2016-17				
	Percentage of men with overall life satisfaction ¹	Average life satisfaction score	Percentage of men who are very or somewhat happy ²	Number of men age 15-24 years
Total	89.6	1.6	90.7	5,887
State				
Abia	83.1	1.6	92.7	54
Adamawa	95.4	1.2	94.9	158
Akwa Ibom	99.6	1.2	98.2	138
Anambra	88.1	1.5	83.2	92
Bauchi	95.4	1.5	69.9	286
Bayelsa	76.6	2.0	86.7	43
Benue	76.7	2.1	91.4	184
Borno	94.1	1.4	98.8	294
Cross River	92.8	1.5	95.6	102
Delta	79.7	1.8	79.3	99
Ebonyi	85.1	1.9	93.4	57
Edo	97.4	1.2	97.0	67
Ekiti	87.4	1.6	85.5	31
Enugu	97.9	1.2	100.0	83
Gombe	97.3	1.3	96.3	118
Imo	93.4	1.4	86.9	98
Jigawa	98.6	1.4	98.1	214
Kaduna	74.3	1.9	75.8	361
Kano	87.6	1.6	90.9	452
Katsina	96.3	1.3	100.0	263
Kebbi	75.7	1.9	89.0	180
Kogi	88.7	1.5	89.7	126
Kwara	78.2	2.1	92.5	93
Lagos	89.6	1.7	89.7	226
Nasarawa	99.2	1.1	99.3	139
Niger	89.2	1.6	97.0	239
Ogun	92.5	1.5	74.2	83
Ondo	90.3	1.7	94.8	92
Osun	96.7	1.3	94.4	135
Oyo	82.3	1.9	80.8	168
Plateau	85.1	1.5	89.3	272
Rivers	93.5	1.7	96.9	152
Sokoto	98.5	1.5	100.0	152
Taraba	89.0	1.4	90.3	91
Yobe	98.3	1.2	94.7	247
Zamfara	83.6	1.7	89.7	248
FCT-Abuja	94.5	1.6	94.4	52
¹ MICS Indicator 11.1 - Life satisfaction ^[M] ² MICS indicator 11.2 - Happiness ^[M]				

Table SW.3: Perception of a better life (women)

Percentage of women age 15-24 years who think that their lives improved during the last one year and those who expect that their lives will get better after one year, Nigeria, 2016-17

	Percentage of women who think that their life			
	Improved during the last one year	Both ¹	Will get better 15-24 years	Number of women age one year after
Total	73.0	92.2	71.1	12,637
Geopolitical zone				
North Central	70.1	93.0	68.9	2,212
North East	74.3	92.6	73.1	2,533
North West	72.4	89.2	69.1	4,208
South East	70.4	91.8	69.3	921
South South	76.0	93.2	73.7	1,290
South West	76.1	98.0	75.6	1,474
Age (years)				
15-19	75.2	92.3	73.3	6,822
20-24	70.5	92.0	68.6	5,816
Residence				
Urban	76.2	93.8	74.6	4,631
Rural	71.2	91.2	69.1	8,007
Marital Status				
Ever married/in union	71.1	91.5	69.1	5,365
Never married/in union	74.8	92.8	73.0	7,222
Education				
None	68.5	91.2	66.7	2,215
Non-formal	73.9	92.5	71.9	1,734
Primary	68.6	88.8	65.8	1,313
Secondary	74.8	92.8	73.0	6,501
Higher	76.7	94.2	75.3	874
Wealth index quintile				
Poorest	69.9	91.4	68.7	1,988
Second	69.9	89.5	67.1	2,507
Middle	71.5	92.3	69.6	2,711
Fourth	74.0	92.4	71.8	2,636
Richest	78.7	94.7	77.5	2,796
Ethnicity of household head				
Hausa	72.3	90.9	69.8	6,088
Igbo	72.8	92.4	71.6	1,256
Yoruba	76.3	97.7	75.6	1,424
Other ethnic group	73.0	92.1	71.4	3,869

1 MICS indicator 11.3 - Perception of a better life

Table SW.3: Perception of a better life (women) continued.

Percentage of women age 15-24 years who think that their lives improved during the last one year and those who expect that their lives will get better after one year, Nigeria, 2016-17

Percentage of women who think that their life				
	Improved during the last one year	Both ¹	Will get better 15-24 years	Number of women age one year after

Total	73.0	92.2	71.1	12,637
State				
Abia	81.3	96.3	79.3	108
Adamawa	72.0	84.4	70.0	310
Akwa Ibom	67.5	77.4	59.7	325
Anambra	66.7	94.4	65.5	228
Bauchi	69.1	90.0	68.2	607
Bayelsa	54.1	96.7	54.1	90
Benue	74.3	88.9	73.8	368
Borno	73.8	99.4	73.8	783
Cross River	79.1	100.0	79.1	248
Delta	79.1	96.9	77.7	202
Ebonyi	50.9	78.5	50.2	167
Edo	94.4	98.9	93.9	163
Ekiti	67.5	97.9	66.5	67
Enugu	71.0	91.2	69.8	198
Gombe	68.0	86.9	65.1	232
Imo	83.1	97.6	82.3	220
Jigawa	64.8	92.9	62.9	481
Kaduna	79.6	91.2	74.6	859
Kano	79.3	86.4	74.0	971
Katsina	58.0	92.2	56.9	729
Kebbi	63.9	75.2	60.3	361
Kogi	73.5	92.3	72.0	249
Kwara	83.7	98.7	82.8	155
Lagos	71.8	97.8	71.7	488
Nasarawa	48.3	74.9	45.3	283
Niger	60.4	97.9	59.3	534
Ogun	83.3	100.0	83.3	155
Ondo	77.2	97.0	76.1	206
Osun	79.0	99.2	79.0	250
Oyo	78.2	97.2	77.0	308
Plateau	84.6	98.7	83.7	497
Rivers	77.3	98.8	77.3	262
Sokoto	91.3	98.4	90.6	320
Taraba	63.2	79.6	58.1	207
Yobe	94.5	99.8	94.5	393
Zamfara	68.8	87.2	66.9	486
FCT-Abuja	68.1	96.1	67.5	126
1 MICS indicator 11.3 - Perception of a better life				

Table SW.3M: Perception of a better life (men)

Percentage of men age 15-24 years who think that their lives improved during the last one year and those who expect that their lives will get better after one year, Nigeria, 2016-17

Percentage of men who think that their life				
	Improved during the last	Will get better one year	Number of men age 15-24 one year Both ¹ years	after
Total	74.0	89.4	71.6	5,887
Geopolitical zone				
North Central	69.2	92.6	67.8	1,105
North East	69.4	87.9	67.3	1,193
North West	74.5	84.0	69.8	1,869
South East	72.2	88.3	71.1	384
South South	78.0	94.9	77.3	601
South West	85.1	96.6	84.1	735
Age (years)				
15-19	74.2	88.7	71.6	3,508
20-24	73.7	90.4	71.5	2,378
Residence				
Urban	77.8	92.4	75.9	2,128
Rural	71.9	87.7	69.1	3,759
Marital Status				
Ever married/in union	72.0	89.8	70.4	277
Never married/in union	74.1	89.4	71.6	5,607
Education				
None	60.5	80.7	58.1	537
Non-formal	76.6	88.1	72.0	673
Primary	64.5	85.0	61.0	563
Secondary	76.3	91.0	74.4	3,568
Higher	79.0	93.2	76.7	544
Wealth index quintile				
Poorest	67.6	83.5	63.9	1,106
Second	69.8	84.5	66.6	1,132
Middle	73.1	91.8	71.7	1,226
Fourth	78.9	93.2	76.9	1,219
Richest	79.8	93.1	77.9	1,203
Ethnicity of household head				
Hausa	71.5	85.9	68.0	2,786
Igbo	75.9	90.3	74.3	556
Yoruba	83.9	95.9	82.1	701
Other ethnic group	73.5	91.8	72.1	1,844
¹ MICS indicator 11.3 - Perception of a better life ^[M]				

Table SW.3M: Perception of a better life (men) continued.

Percentage of men age 15-24 years who think that their lives improved during the last one year and those who expect that their lives will get better after one year, Nigeria, 2016-17

	Percentage of men who think that their life			
	Improved during the last	Will get better one year	Both ¹ Number of men age 15-24 one year years	after
Total	74.0	89.4	71.6	5,887
State				
Abia	87.6	100.0	87.6	54
Adamawa	99.6	100.0	99.6	158
Akwa Ibom	92.1	99.4	91.5	138
Anambra	68.1	71.5	64.6	92
Bauchi	50.6	82.3	50.6	286
Bayelsa	51.8	95.6	49.7	43
Benue	59.7	76.7	57.8	184
Borno	94.0	100.0	94.0	294
Cross River	90.9	98.9	90.4	102
Delta	83.8	99.1	82.9	99
Ebonyi	14.3	69.9	14.3	57
Edo	90.3	95.8	90.3	67
Ekiti	87.1	93.6	83.8	31
Enugu	94.5	98.6	93.1	83
Gombe	41.6	73.1	36.6	118
Imo	82.5	99.6	82.5	98
Jigawa	95.8	94.9	92.5	214
Kaduna	74.9	86.5	67.8	361
Kano	69.4	85.9	66.6	452
Katsina	59.1	60.2	55.6	263
Kebbi	77.4	86.0	69.3	180
Kogi	65.7	90.6	64.3	126
Kwara	68.5	81.0	65.4	93
Lagos	92.1	100.0	92.1	226
Nasarawa	91.9	100.0	91.9	139
Niger	94.3	96.9	91.9	239
Ogun	94.8	98.5	93.2	83
Ondo	75.3	95.1	75.3	92
Osun	85.2	98.0	85.2	135
Oyo	75.7	91.5	72.9	168
Plateau	38.4	99.8	38.4	272
Rivers	54.8	84.6	53.8	152
Sokoto	94.8	95.5	91.3	152
Taraba	33.7	52.6	26.9	91
Yobe	69.2	92.5	63.8	247
Zamfara	66.6	84.2	61.5	248
FCT-Abuja	96.9	98.5	95.7	52

¹ MICS indicator 11.3 - Perception of a better life ^[M]

XV. Tobacco and Alcohol Use

Table TA.1: Current and ever use of tobacco (women)

Percentage of women age 15-49 years by pattern of use of tobacco, Nigeria, 2016-17

	Never smoked cigarettes or used other tobacco products	Ever users			Users of tobacco products at any time during the last one month					Number of women age 15-49 years
		Cigarettes and other tobacco products	Only other tobacco products	Any tobacco product	Cigarettes and other tobacco products	Only other tobacco products	Any tobacco product ¹	Or		
Total	98.1	0.5	0.1	0.8	1.4	0.1	0.0	0.2	0.3	34,376
Geopolitical zone										
North Central	98.0	0.4	0.1	1.0	1.5	0.0	0.0	0.2	0.3	6,006
North East	97.9	0.3	0.1	0.8	1.1	0.1	0.0	0.3	0.4	6,584
North West	98.9	0.3	0.0	0.4	0.7	0.2	0.0	0.0	0.2	10,932
South East	98.3	0.5	0.1	0.9	1.5	0.0	0.0	0.2	0.2	2,445
South South	97.0	0.7	0.5	1.2	2.4	0.1	0.0	0.2	0.3	3,668
South West	97.3	1.2	0.2	1.0	2.4	0.0	0.0	0.1	0.2	4,741
Age (years)										
15-19	98.6	0.2	0.1	0.6	0.8	0.0	0.0	0.0	0.0	6,822
20-24	97.9	0.5	0.2	0.7	1.4	0.0	0.0	0.1	0.1	5,816
25-29	98.2	0.5	0.2	0.6	1.3	0.1	0.0	0.1	0.3	5,915
30-34	98.4	0.7	0.0	0.7	1.4	0.1	0.0	0.1	0.2	5,390
35-39	98.2	0.5	0.1	0.7	1.3	0.2	0.0	0.1	0.2	4,339
40-44	97.5	0.6	0.2	1.4	2.2	0.1	0.0	0.6	0.7	3,571
45-49	97.0	0.8	0.1	1.3	2.2	0.0	0.0	0.5	0.5	2,524
Residence										
Urban	97.6	0.8	0.2	0.9	1.9	0.1	0.0	0.2	0.3	12,373
Rural	98.4	0.3	0.1	0.7	1.1	0.1	0.0	0.1	0.2	22,003
Education										
None	98.2	0.3	0.0	0.8	1.1	0.0	0.0	0.2	0.2	7,799
Non-formal	99.2	0.2	0.0	0.3	0.5	0.1	0.0	0.0	0.2	5,646
Primary	97.7	0.4	0.1	1.3	1.8	0.2	0.0	0.5	0.7	4,963
Secondary	97.8	0.7	0.2	0.8	1.7	0.1	0.0	0.1	0.2	12,466

Higher	97.6	0.1	0.3	0.7	2.1	0.0	0.0	0.1	0.1	3,502
Under-5s in the same househ										
At least one	98.4	0.4	0.1	0.6	1.1	0.1	0.0	0.1	0.2	23,427
None	97.5	0.8	0.3	1.1	2.1	0.1	0.0	0.2	0.3	10,949
Wealth index quintile										
Poorest	98.9	0.1	0.1	0.4	0.5	0.0	0.0	0.1	0.2	6,120
Second	98.1	0.4	0.1	0.9	1.3	0.2	0.0	0.4	0.6	6,478
Middle	98.2	0.3	0.0	0.9	1.2	0.1	0.0	0.1	0.2	6,708
Fourth	98.0	0.6	0.2	0.9	1.7	0.1	0.0	0.2	0.3	7,053
Richest	97.5	1.0	0.2	0.8	2.1	0.0	0.0	0.1	0.1	8,017
Ethnicity of household head										
Hausa	98.8	0.2	0.0	0.4	0.7	0.1	0.0	0.0	0.2	15,920
Igbo	98.0	0.6	0.2	1.0	1.7	0.0	0.0	0.2	0.2	3,558
Yoruba	97.5	1.1	0.1	0.9	2.1	0.0	0.0	0.1	0.1	4,380
Other ethnic group	97.3	0.6	0.3	1.2	2.1	0.1	0.0	0.4	0.4	10,518
1 MICS indicator 12.1 - Tobacco use										

Table TA.1: Current and ever use of tobacco (women) continued

Percentage of women age 15-49 years by pattern of use of tobacco, Nigeria, 2016-17

	Never smoked	Ever users				Tobacco products used in last one month				Number of women age 15-49 years
		cigarettes or tobacco products used	Cigarettes and other tobacco products	Only cigarettes	Any tobacco products	Cigarettes and other tobacco products	Only tobacco products	Any tobacco product ¹		
Total	98.1	0.5	0.1	0.8	1.4	0.1	0.0	0.2	0.3	34,376
State										
Abia	98.5	0.6	0.0	0.5	1.2	0.0	0.0	0.0	0.0	336
Adamawa	97.2	0.4	0.3	1.1	1.8	0.3	0.0	0.0	0.3	830
Akwa Ibom	97.1	0.7	0.2	1.6	2.4	0.0	0.0	0.1	0.1	834
Anambra	97.9	0.2	0.1	1.6	1.9	0.0	0.0	0.4	0.4	608
Bauchi	99.1	0.3	0.0	0.2	0.5	0.0	0.0	0.0	0.0	1,559
Bayelsa	95.5	2.1	0.9	1.2	4.2	0.2	0.3	0.1	0.6	260
Benue	96.2	1.2	0.2	1.8	3.1	0.1	0.0	0.5	0.5	956
Borno	96.8	0.1	0.0	1.8	1.9	0.0	0.0	1.0	1.0	1,984
Cross River	97.1	0.1	0.9	0.7	1.7	0.0	0.0	0.6	0.6	693
Delta	97.7	1.3	0.3	0.5	2.1	0.2	0.0	0.1	0.3	584
Ebonyi	99.3	0.2	0.0	0.5	0.7	0.0	0.0	0.0	0.0	400
Edo	98.3	0.6	0.1	0.8	1.5	0.0	0.0	0.4	0.4	494
Ekiti	96.9	1.0	0.0	1.1	2.1	0.3	0.0	0.4	0.7	216
Enugu	98.4	0.1	0.1	0.6	0.9	0.0	0.0	0.1	0.1	495
Gombe	98.1	0.3	0.0	0.4	0.7	0.1	0.0	0.1	0.2	562
Imo	97.7	1.1	0.2	0.9	2.2	0.0	0.0	0.2	0.2	606
Jigawa	97.9	0.0	0.0	0.3	0.3	0.0	0.0	0.0	0.0	1,313
Kaduna	98.3	1.3	0.0	0.2	1.6	0.9	0.0	0.0	0.9	2,076
Kano	99.3	0.1	0.1	0.4	0.5	0.0	0.0	0.0	0.0	2,389

Katsina	98.9	0.2	0.0	0.7	0.8	0.0	0.0	0.1	0.1	1,950
Kebbi	99.2	0.0	0.0	0.7	0.7	0.0	0.0	0.0	0.0	956
Kogi	97.6	0.2	0.0	1.5	1.7	0.0	0.0	0.3	0.3	632
Kwara	99.0	0.3	0.1	0.4	0.8	0.0	0.0	0.2	0.2	487
Lagos	97.4	1.6	0.2	0.8	2.6	0.0	0.0	0.0	0.0	1,725
Nasarawa	98.3	0.3	0.3	0.4	1.1	0.0	0.1	0.3	0.4	738
Niger	98.3	0.2	0.0	1.0	1.2	0.0	0.0	0.2	0.2	1,536
Ogun	97.5	1.7	0.0	0.6	2.2	0.0	0.0	0.0	0.0	474
Ondo	95.9	1.6	0.2	1.9	3.6	0.0	0.0	0.4	0.4	646
Osun	96.1	1.2	0.5	2.1	3.7	0.2	0.0	0.3	0.5	638
Oyo	98.9	0.3	0.0	0.4	0.7	0.0	0.0	0.0	0.0	1,042
Plateau	99.2	0.0	0.1	0.4	0.5	0.0	0.0	0.0	0.0	1,317
Rivers	96.1	0.6	0.7	2.1	3.3	0.2	0.0	0.0	0.2	803
Sokoto	99.5	0.2	0.1	0.1	0.4	0.2	0.0	0.1	0.3	912
Taraba	97.6	0.6	0.3	0.4	1.2	0.1	0.0	0.0	0.1	558
Yobe	98.8	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	1,091
Zamfara	99.8	0.0	0.1	0.2	0.2	0.0	0.0	0.0	0.0	1,337
FCT Abuja	96.5	1.4	0.3	1.7	3.5	0.1	0.0	0.4	0.5	340
1 MICS indicator 12.1 - Tobacco use										

Table TA.1M: Current and ever use of tobacco (men)

Percentage of men age 15-49 years by pattern of use of tobacco, Nigeria, 2016-17

	Never smoked cigarettes or used other tobacco products	Users of tobacco products at any time during the last one month								Number of men age 15-49 years
		Ever users				Users of tobacco products at any time during the last one month				
		Only cigarettes	Cigarettes and other tobacco products	Only other tobacco products	Any tobacco product	Only cigarettes	Cigarettes and other tobacco products	Only other tobacco products	Any tobacco product ¹	
Total	83.3	10.2	2.9	2.9	16.0	4.7	0.5	1.6	6.9	15,183
Geopolitical zone										
North Central	89.4	6.8	1.6	1.5	9.8	3.8	0.5	0.7	5.1	2,730
North East	91.9	5.4	1.1	0.9	7.4	2.8	0.3	0.6	3.7	2,943
North West	84.6	7.6	2.5	4.6	14.6	3.8	0.6	2.6	6.9	4,674
South East	69.4	17.8	6.9	5.5	30.3	7.2	0.9	4.4	12.5	984
South South	75.8	15.6	4.9	2.9	23.4	7.0	0.5	0.8	8.2	1,664
South West	73.3	19.2	4.6	2.5	26.3	7.7	0.7	1.3	9.7	2,189
Age (years)										
15-19	94.9	1.9	0.5	2.0	4.4	0.7	0.1	0.5	1.2	3,508
20-24	87.0	7.1	2.1	2.7	11.9	3.2	0.5	1.2	4.9	2,378

25-29	81.5	10.9	3.7	3.4	18.0	4.3	1.1	2.0	7.4	2,191
30-34	77.5	14.2	4.7	3.2	22.1	6.6	0.8	1.7	9.1	2,078
35-39	76.4	16.1	3.8	3.1	23.1	8.5	0.7	2.4	11.5	1,936
40-44	77.3	14.8	4.0	3.2	21.9	7.8	0.6	2.6	11.0	1,724
45-49	76.4	16.1	3.5	3.4	23.0	6.4	0.3	2.0	8.7	1,368
Residence										
Urban	81.9	11.5	3.3	2.7	17.5	4.9	0.5	1.2	6.6	5,627
Rural	84.2	9.5	2.6	3.0	15.2	4.6	0.6	1.9	7.0	9,556
Education										
None	86.4	8.1	1.7	2.7	12.6	5.1	0.4	1.9	7.4	1,563
Non-formal	88.1	5.9	1.9	3.3	11.2	4.0	0.4	2.1	6.5	2,140
Primary	76.5	14.9	3.9	3.9	22.7	7.7	1.0	3.0	11.8	1,997
Secondary	83.9	10.3	2.7	2.5	15.5	4.3	0.5	1.2	6.1	6,861
Higher	81.3	11.3	4.1	2.8	18.2	3.9	0.5	0.9	5.3	2,622
Under-5s in the same household										
At least one	83.7	9.8	2.7	3.1	15.6	4.7	0.4	1.9	7.0	8,902
None	82.8	10.8	3.2	2.5	16.6	4.7	0.8	1.2	6.6	6,281
Wealth index quintile										
Poorest	87.4	6.5	1.8	3.5	11.8	3.9	0.7	2.2	6.7	2,614
Second	85.7	8.7	2.4	3.0	14.1	4.9	0.4	2.1	7.3	2,901
Middle	84.9	9.0	2.0	3.1	14.1	4.1	0.4	1.7	6.2	2,927
Fourth	80.6	12.1	4.0	2.4	18.6	5.8	0.9	1.7	8.4	3,202
Richest	79.6	13.6	3.8	2.5	20.0	4.7	0.4	0.7	5.8	3,539
Ethnicity of household head										
Hausa	87.4	6.6	1.8	3.3	11.8	3.5	0.4	1.8	5.7	6,958
Igbo	70.9	17.4	6.2	4.8	28.3	7.3	0.7	3.2	11.2	1,488
Yoruba	77.6	16.0	3.7	2.3	22.0	6.0	0.6	1.1	7.8	1,980
Other ethnic group	83.6	10.9	3.1	1.9	15.9	5.1	0.7	1.0	6.8	4,757
1 MICS indicator 12.1 - Tobacco use ^[M]										

Table TA.1M: Current and ever use of tobacco (men) continued

Percentage of men age 15-49 years by pattern of use of tobacco, Nigeria, 2016-17

	Never smoked cigarettes or used other tobacco products	Users of tobacco products at a during the last one month									Number of men age 15-49 years
		Ever			Cigarettes and other tobacco products			Any tobacco product			
		Only cigarettes	Cigarettes and other tobacco products	Only other tobacco products	Only cigarettes	Only other tobacco products	Any tobacco product ¹	Only cigarettes	Only other tobacco products	Any tobacco product ¹	

Total	83.3	10.2	2.9	2.9	16.0	4.7	0.5	1.6	6.9	15,183
State										
Abia	59.8	26.4	7.0	6.5	39.9	7.6	1.0	2.8	11.4	142
Adamawa	91.9	5.4	0.8	1.9	8.1	3.1	0.2	0.7	4.0	389
Akwa Ibom	80.2	12.6	3.3	3.9	19.8	5.1	0.7	0.9	6.7	365
Anambra	89.8	8.1	0.2	1.4	9.7	5.5	0.0	1.0	6.5	241
Bauchi	93.5	4.8	0.7	0.8	6.3	2.3	0.0	0.7	3.0	681
Bayelsa	72.8	23.9	1.2	0.2	25.4	8.2	0.0	0.2	8.4	121
Benue	92.4	3.7	1.8	2.1	7.6	3.3	1.0	1.9	6.3	481
Borno	93.6	4.3	1.5	0.0	5.8	2.2	0.7	0.0	2.8	813
Cross River	77.7	16.9	3.1	2.3	22.3	5.3	0.0	1.4	6.7	275
Delta	64.1	26.9	4.6	0.9	32.4	12.4	1.1	0.2	13.7	258
Ebonyi	53.9	17.5	16.9	11.7	46.1	7.0	1.6	15.8	24.3	152
Edo	80.4	13.1	5.3	1.2	19.6	12.7	0.6	0.0	13.3	209
Ekiti	74.6	20.9	2.6	1.9	25.4	9.2	0.0	0.5	9.7	96
Enugu	65.2	24.6	4.3	5.9	34.8	7.7	1.0	3.0	11.7	190
Gombe	89.4	7.0	1.5	1.3	9.9	3.5	0.7	0.3	4.5	268
Imo	67.7	17.4	9.2	4.8	31.5	8.3	1.4	2.8	12.5	260
Jigawa	94.9	2.9	0.8	0.5	4.1	1.0	0.5	0.3	1.8	534
Kaduna	84.3	8.2	2.7	4.8	15.7	4.0	0.7	2.2	7.0	898
Kano	87.2	6.1	1.4	3.1	10.6	2.3	0.4	1.3	4.0	1,028
Katsina	88.1	7.0	2.7	2.2	11.9	2.0	0.2	1.1	3.3	816
Kebbi	84.9	8.8	3.0	2.2	14.0	5.7	1.7	0.9	8.4	426
Kogi	85.0	9.2	2.3	1.9	13.4	3.0	0.6	0.8	4.4	275
Kwara	90.0	2.4	2.0	4.9	9.2	1.0	0.0	1.3	2.3	232
Lagos	73.9	18.0	6.4	1.7	26.1	6.8	1.3	0.6	8.7	808
Nasarawa	86.8	11.2	1.1	0.5	12.8	6.8	0.4	0.3	7.5	352
Niger	87.1	7.8	1.7	1.3	10.9	3.9	0.6	0.3	4.8	645
Ogun	71.5	20.4	5.3	2.4	28.1	6.3	0.0	1.7	8.0	206
Ondo	75.3	16.9	4.5	3.2	24.7	6.1	0.2	2.2	8.5	293
Osun	77.9	16.3	2.4	2.5	21.3	7.0	0.0	1.6	8.6	296
Oyo	68.9	23.4	3.0	3.6	30.0	10.8	1.0	1.6	13.4	490
Plateau	91.9	6.8	1.0	0.2	8.0	4.1	0.4	0.4	4.9	606
Rivers	76.6	9.6	8.3	5.1	22.9	3.4	0.3	1.1	4.8	436
Sokoto	80.5	17.4	1.6	0.4	19.5	12.7	0.0	0.4	13.1	358
Taraba	79.3	13.5	2.0	3.6	19.1	7.5	0.4	3.8	11.7	256
Yobe	94.5	3.1	0.5	0.3	4.0	1.5	0.0	0.1	1.6	537
Zamfara	69.4	7.4	5.2	17.7	30.2	4.0	0.6	11.6	16.3	613
FCT Abuja	93.5	3.7	1.4	1.4	6.5	2.2	0.7	0.5	3.4	139
1 [M] MICS indicator 12.1 - Tobacco use										

Table TA.2: Age at first use of cigarettes and frequency of use (women)

Percentage of women age 15-49 years who smoked a whole cigarette before age 15, and percent distribution of current smokers by the number of cigarettes smoked in the last 24 hours, Nigeria, 2016-17

	Percentage of women who smoked a whole cigarette	Number of women age 15-49 years who are smokers	Number of cigarettes in the last 24 hours					Number of women age 15-49 years who are								
			Less than 5	5-9	10-19	20+	Total									
Total	0.2	34376	52.3	36.9	8.9	1.8	100.0			36						
Geopolitical zone																
North Central	0.2	6006	(*)	(*)	0.0	100.0	3	North East	0.1	6584	(*)	0.0	0.0	0.0	100.0	4
North West	0.2	10932	(*)	(*)	(*)	0.0	100.0									21
South East	0.1	2445	0.0	0.0	0.0	0.0	0.0									
South South	0.1	3668	(*)	0.0	0.0	0.0	100.0									6
South West	0.3	4741	(*)	0.0	0.0	(*)	100.0									3
Age (years)																
15-19	0.2	6822	0.0	0.0	0.0	0.0	0.0									
20-24	0.2	5816	(*)	(*)	0.0	0.0	100.0									7
25-29	0.2	5915	(*)	(*)	0.0	0.0	100.0									8
30-34	0.2	5390	(*)	(*)	(*)	(*)	100.0									8
35-39	0.2	4339	(*)	(*)	(*)	0.0	100.0									7
40-44	0.2	3571	(*)	(*)	0.0	0.0	100.0									5
45-49	0.2	2524	(*)	0.0	0.0	0.0	100.0									1
Residence																
Urban	0.2	12373	(*)	(*)	(*)	(*)	100.0									20
Rural	0.1	22003	(*)	(*)	(*)	0.0	100.0									16
Education																
None	0.1	7799	(*)	(*)	0.0	0.0	100.0									3
Non-formal	0.1	5646	(*)	(*)	0.0	0.0	100.0									8
Primary	0.2	4963	(*)	(*)	(*)	6.0	100.0									11
Secondary	0.2	12466	(*)	(*)	0.0	0.0	100.0									13
Higher	0.4	3502	(*)	0.0	0.0	0.0	100.0									1
Under-5s in the same household																
At least one	0.2	23427	(*)	(*)	0.0	0.0	100.0									23
None	0.2	10949	(*)	0.0	(*)	(*)	100.0									14
Wealth index quintile																
Poorest	0.1	6120	(*)	(*)	0.0	0.0	100.0									4
Second	0.2	6478	(*)	(*)	0.0	0.0	100.0									12
Middle	0.1	6708	(*)	(*)	(*)	(*)	100.0									7

Fourth	0.2	7053	(*)	(*)	0.0	0.0	100.0	9
Richest	0.2	8017	(*)	0.0	0.0	0.0	100.0	4
Ethnicity of household head								
Hausa	0.1	15920	(*)	(*)	(*)	0.0	100.0	22
Igbo	0.1	3558	(*)	0.0	0.0	0.0	100.0	1
Yoruba	0.3	4380	0.0	0.0	0.0	(*)	100.0	1
Other ethnic group	0.3	10518	(*)	(*)	(*)	0.0	100.0	12
¹ MICS indicator 12.2 - Smoking before age 15								

(*) Sample data are fewer than 25 unweighted cases

Table TA.2M: Age at first use of cigarettes and frequency of use (men)	
Percentage of men age 15-49 years who smoked a whole cigarette before age 15, and percent distribution of current smokers by the number of cigarettes smoked in the last 24 hours, Nigeria, 2016-17	
Percentage of Number of smoked a whole men age	Number of cigarettes in the last 24 hours men who Number of men age 15-49

	cigarette before	15-49	Less than	years who are current age 15 ¹			years	5
				5-9	20+	Total	cigarette smokers	
Total	1.6 808	15,183	57.1	25.3	10-19 12.0	4.7		100.0
Geopolitical zone								
North Central	1.5	2,730	62.7	22.8	10.5	3.6	100.0	119
North East	0.6	2,943	61.9	17.6	14.3	6.1	100.0	91
North West	1.2	4,674	45.6	30.7	17.5	4.7	100.0	203
South East	1.2	984	63.0	17.9	12.9	6.2	100.0	80
South South	2.4	1,664	55.8	27.4	8.6	5.9	100.0	127
South West	3.6	2,189	62.2	26.4	7.8	3.2	100.0	187
Age (years)								
15-19	0.9	3,508	(59.8)	(24.1)	(5.8)	(5.3)	(100.0)	(25.5)
20-24	1.4	2,378	63.7	21.4	8.2	6.7	100.0	89
25-29	1.8	2,191	59.3	29.7	9.1	1.3	100.0	118
30-34	1.2	2,078	55.2	25.9	12.6	4.9	100.0	155
35-39	2.0	1,936	58.6	25.7	11.6	4.1	100.0	179
40-44	2.6	1,724	58.8	16.5	18.3	5.5	100.0	148
45-49	2.4	1,368	45.2	35.6	10.7	6.4	100.0	94
Residence								
Urban	2.0	5,627	60.6	24.8	11.4	2.6	100.0	312
Rural	1.4	9,556	55.0	25.6	12.4	6.0	100.0	496
Education								
None	1.5	1,563	58.6	22.7	9.2	8.6	100.0	87
Non-formal	0.7	2,140	43.4	35.3	14.7	6.7	100.0	93
Primary	2.6	1,997	65.1	20.9	10.7	2.7	100.0	176
Secondary	1.6	6,861	54.7	27.3	11.6	4.7	100.0	336
Higher	1.7	2,622	61.9	19.9	14.9	3.2	100.0	117
Under-5s in the same household								
At least one	0.7	2,140	43.4	35.3	14.7	6.7	100.0	93
None	1.4	8,902	57.3	25.6	11.4	4.6	100.0	461
Wealth index quintile								
Poorest	0.7	2,614	50.5	25.5	12.5	10.9	100.0	119
Second	1.5	2,901	58.9	22.2	14.8	3.1	100.0	153
Middle	1.3	2,927	53.7	28.1	12.2	4.7	100.0	135
Fourth	2.1	3,202	63.7	25.2	6.6	2.9	100.0	217
Richest	2.1	3,539	54.7	25.6	15.6	4.0	100.0	184
Ethnicity of household head								
Hausa	1.0	6,958	44.9	31.8	16.0	6.0	100.0	275
Igbo	1.3	1,488	62.2	16.1	12.8	8.9	100.0	120
Yoruba	3.2	1,980	65.6	25.7	6.4	1.7	100.0	135
Other ethnic group	1.9	4,757	62.9	22.6	10.5	3.0	100.0	278

() Sample data are based on 25-49 unweighted cases

Table TA.2M: Age at first use of cigarettes and frequency of use (men) continued

Percentage of men age 15-49 years who smoked a whole cigarette before age 15, and percent distribution of current smokers by the number of cigarettes smoked in the last 24 hours, Nigeria, 2016-17

Percentage of men who smoked a whole cigarette before 15-49	Number of cigarettes in the last 24 hours				Total smokers
	Less than 5	5-9	10-19	20+	

Total	1.6	15183	57.1	25.3	12.0	4.7	100.0	808
State								
Abia	2.8	142	(55.3)	(11.9)	(29.2)	(3.6)	100.0	13
Adamawa	0.1	389	(*)	(*)	(*)	(*)	100.0	13
Akwa Ibom	2.5	365	(72.4)	(20.1)	(12.0)	(0.0)	100.0	23
Anambra	0.0	241	(*)	(*)	(*)	(*)	100.0	13
Bauchi	0.4	681	(*)	(*)	(*)	(*)	100.0	15
Bayelsa	3.1	121	(25.4)	(50.4)	(13.3)	(10.9)	100.0	10
Benue	0.0	481	(*)	(*)	(*)	(*)	100.0	21
Borno	0.3	813	(*)	(*)	(*)	(*)	100.0	23
Cross River	5.7	275	(*)	(*)	(*)	(*)	100.0	15
Delta	2.6	258	(44.4)	(29.6)	(13.0)	(8.6)	100.0	36
Ebonyi	0.4	152	(84.4)	(4.8)	(10.8)	(.0)	100.0	13
Edo	1.4	209	71.7	22.3	6.0	0.0	100.0	28
Ekiti	2.4	96	(*)	(*)	(*)	(*)	100.0	9
Enugu	1.0	190	(67.0)	(20.0)	(4.4)	(8.6)	100.0	17
Gombe	0.4	268	(*)	(*)	(*)	(*)	100.0	11
Imo	2.1	260	(59.0)	(23.4)	(5.2)	(12.3)	100.0	25
Jigawa	0.6	534	(*)	(*)	(*)	(*)	100.0	8
Kaduna	1.8	898	(52.0)	(24.4)	(23.6)	(0.0)	100.0	43
Kano	1.1	1028	(31.6)	(48.3)	(13.7)	(0.0)	100.0	29
Katsina	0.6	816	(*)	(*)	(*)	(*)	100.0	18
Kebbi	1.6	426	(48.4)	(36.4)	(9.7)	(1.5)	100.0	32
Kogi	0.8	275	(*)	(*)	(*)	(*)	100.0	11
Kwara	1.6	232	(*)	(*)	(*)	(*)	100.0	2
Lagos	3.5	808	63.5	24.7	6.3	5.5	100.0	67
Nasarawa	1.4	352	(83.7)	(16.3)	0.0	0.0	100.0	25
Niger	3.9	645	(*)	(*)	(*)	(*)	100.0	29
Ogun	1.7	206	(*)	(*)	(*)	(*)	100.0	14
Ondo	3.5	293	(*)	(*)	(*)	(*)	100.0	19
Osun	5.2	296	(*)	(*)	(*)	(*)	100.0	21
Oyo	3.7	490	(51.2)	(34.6)	(10.3)	(4.0)	100.0	58
Plateau	0.9	606	(*)	(*)	(*)	(*)	100.0	27
Rivers	0.5	436	(*)	(*)	(*)	(*)	100.0	16
Sokoto	1.7	358	(37.1)	(36.6)	(17.0)	(9.3)	100.0	45
Taraba	2.0	256	(64.8)	(29.0)	(6.3)	(0.0)	100.0	20
Yobe	0.9	537	(*)	(*)	(*)	(*)	100.0	8
Zamfara	0.9	613	(*)	(*)	(*)	(*)	100.0	28
FCT Abuja	0.8	139	100.0	0.0	0.0	0.0	100.0	12
1 MICCS indicator 12.2 - Smoking before age 15 ^[M]								

(.) Sample data are based on 25-49 unweighted cases

(*) Sample data are fewer than 25 unweighted cases

Table TA.3: Use of alcohol (women)

Percentage of women age 15-49 years who have never had an alcoholic drink, percentage who first had an alcoholic drink before age 15, and percentage of women who have had at least one alcoholic drink at any time during the last one month, Nigeria, 2016-17

Percentage of women who:				
	Never had an alcoholic drink at any time during the last 15 years	Had at least one alcoholic drink at any time during the last 15 years	Had at least one alcoholic drink before age 15 ¹	Number of women ²
Total	85.4	3.3	6.4	34,376
Geopolitical zone				
North Central	89.4	2.3	5.2	6,006
North East	96.4	1.3	1.5	6,584
North West	97.8	0.5	0.8	10,932
South East	62.7	8.3	16.3	2,445
South South	57.0	8.8	21.7	3,668
South West	70.3	6.8	10.3	4,741
Age (years)				
15-19	90.6	4.1	3.4	6,822
20-24	86.6	2.6	5.9	5,816
25-29	85.3	2.8	6.3	5,915
30-34	83.5	3.2	7.8	5,390
35-39	84.9	3.0	7.0	4,339
40-44	81.0	3.8	8.3	3,571
45-49	80.4	3.6	8.7	2,524
Residence				
Urban	81.7	3.3	6.8	12,373
Rural	87.5	3.2	6.1	22,003
Education				
None	95.0	1.4	2.5	7,799
Non-formal	99.4	0.0	0.0	5,646
Primary	83.0	4.5	8.4	4,963
Secondary	77.5	5.3	9.6	12,466
Higher	73.4	3.7	10.7	3,502
Wealth index quintile				
Poorest	95.4	1.8	2.8	6,120
Second	92.8	2.3	3.3	6,478
Middle	87.0	3.2	6.0	6,708
Fourth	80.8	4.3	8.5	7,053
Richest	74.5	4.3	9.9	8,017
Ethnicity of household head				
Hausa	98.2	0.5	0.6	15,920
Igbo	63.9	7.4	15.1	3,558
Yoruba	74.5	6.3	9.3	4,380
Other ethnic group	77.9	4.8	10.9	10,518

¹ MICS indicator 12.4 - Use of alcohol before age 15
² MICS indicator 12.3 - Use of alcohol

Table TA.3: Use of alcohol (women) continued

Percentage of women age 15-49 years who have never had an alcoholic drink, percentage who first had an alcoholic drink before age 15, and percentage of women who have had at least one alcoholic drink at any time during the last one month, Nigeria, 2016-17

Percentage of women who:				Number of
Never had an alcoholic women drink	Had at least one alcoholic drink before age 15 ¹	Had at least one alcoholic any time during the last one month ²	age 15-49 years	

Total	85.4	3.3	6.4	34,376
State				
Abia	56.2	8.3	16.8	336
Adamawa	93.9	3.3	3.9	830
Akwa Ibom	55.9	11.3	17.2	834
Anambra	58.9	6.9	13.7	608
Bauchi	98.6	0.5	0.2	1,559
Bayelsa	31.9	21.8	23.9	260
Benue	71.8	3.5	10.5	956
Borno	97.2	0.0	0.0	1,984
Cross River	44.5	14.0	36.7	693
Delta	55.8	6.5	21.3	584
Ebonyi	88.7	5.7	5.0	400
Edo	78.5	0.9	8.8	494
Ekiti	81.3	2.4	5.1	216
Enugu	61.2	11.3	18.2	495
Gombe	95.7	1.1	2.1	562
Imo	54.4	8.8	24.3	606
Jigawa	98.3	0.0	0.0	1,313
Kaduna	91.9	2.1	4.3	2,076
Kano	99.2	0.0	0.0	2,389
Katsina	99.5	0.3	0.1	1,950
Kebbi	99.3	0.0	0.0	956
Kogi	97.1	1.5	0.7	632
Kwara	95.8	0.2	2.5	487
Lagos	69.6	3.0	9.6	1,725
Nasarawa	94.5	1.8	3.7	738
Niger	97.4	1.1	0.6	1,536
Ogun	61.7	7.6	10.8	474
Ondo	53.6	19.6	20.6	646
Osun	62.6	12.7	13.9	638
Oyo	88.1	1.9	3.6	1,042
Plateau	84.6	4.3	11.0	1,317
Rivers	64.8	3.9	20.9	803
Sokoto	99.2	0.0	0.1	912
Taraba	86.6	8.1	9.5	558
Yobe	99.2	0.0	0.0	1,091
Zamfara	99.4	0.0	0.0	1,337
FCT Abuja	87.3	2.3	4.7	340
¹ MICS indicator 12.4 - Use of alcohol before age ² MICS indicator 12.3 - Use of alcohol				

Table TA.3M: Use of alcohol (men)

Percentage of men age 15-49 years who have never had an alcoholic drink, percentage who first had an alcoholic drink before age 15, and percentage of men who have had at least one alcoholic drink at any time during the last one month, Nigeria, 2016-17

Percentage of men who:				
	Never had an alcoholic drink	Had at least one alcoholic drink before age 15 ¹	Had at least one alcoholic drink at any time during the last one month ²	Number of men age 15-49 years
Total	73.3	5.5	19.4	15,183
Geopolitical zone				
North Central	82.2	3.5	14.3	2,730
North East	94.3	1.9	4.8	2,943
North West	96.2	0.4	2.0	4,674
South East	22.1	16.6	66.2	984
South South	35.1	13.5	48.8	1,664
South West	37.5	12.5	39.0	2,189
Age (years)				
15-19	86.0	6.0	7.4	3,508
20-24	76.1	5.5	16.9	2,378
25-29	71.4	4.9	22.3	2,191
30-34	66.5	4.9	25.9	2,078
35-39	66.0	5.2	25.9	1,936
40-44	65.5	6.1	25.6	1,724
45-49	70.1	5.1	22.6	1,368
Residence				
Urban	66.5	5.8	23.1	5,627
Rural	77.4	5.2	17.2	9,556
Education				
None	92.8	1.6	5.5	1,563
Non-formal	98.9	0.1	0.2	2,140
Primary	67.5	7.3	25.4	1,997
Secondary	66.2	7.6	24.5	6,861
Higher	64.1	5.2	25.2	2,622
Wealth index quintile				
Poorest	93.8	2.0	4.7	2,614
Second	86.7	3.4	10.1	2,901
Middle	76.6	6.0	17.3	2,927
Fourth	63.5	7.4	26.5	3,202
Richest	53.5	7.5	33.1	3,539
Ethnicity of household head				
Hausa	97.0	0.5	1.8	6,958
Igbo	28.3	14.5	60.3	1,488
Yoruba	44.8	11.3	33.5	1,980
Other ethnic group	64.6	7.5	26.5	4,757
¹ MICS indicator 12.4 - Use of alcohol before age 15 ^[M] ² ^[M] MICS indicator 12.3 - Use of alcohol				

Table TA.3M: Use of alcohol (men) continued

Percentage of men age 15-49 years who have never had an alcoholic drink, percentage who first had an alcoholic drink before age 15, and percentage of men who have had at least one alcoholic drink at any time during the last one month, Nigeria, 2016-17

Percentage of men who:				Number of men age 15-49 years
Never had an alcoholic drink	Had at least one alcoholic drink before age 15 ¹	Had at least one alcoholic drink at any time during the last one month ²		

Total	73.3	5.5	19.4	15,183
State				
Abia	9.4	32.5	70.7	142
Adamawa	92.3	2.6	6.9	389
Akwa Ibom	35.0	16.2	39.3	365
Anambra	27.4	1.7	70.2	241
Bauchi	97.6	0.2	1.6	681
Bayelsa	39.6	12.8	42.3	121
Benue	86.6	2.1	12.9	481
Borno	97.5	1.1	1.8	813
Cross River	27.1	34.4	64.2	275
Delta	16.4	11.0	55.0	258
Ebonyi	29.9	2.5	53.9	152
Edo	48.6	2.2	45.3	209
Ekiti	35.5	16.0	36.5	96
Enugu	7.3	41.9	78.2	190
Gombe	94.3	1.4	4.4	268
Imo	30.4	11.4	58.5	260
Jigawa	99.6	0.0	0.0	534
Kaduna	84.6	1.3	9.4	898
Kano	99.3	0.2	0.4	1,028
Katsina	99.7	0.1	0.0	816
Kebbi	95.5	0.4	1.8	426
Kogi	61.3	8.6	25.7	275
Kwara	95.5	0.5	2.2	232
Lagos	38.3	9.7	44.0	808
Nasarawa	86.1	2.8	12.7	352
Niger	91.5	0.6	3.7	645
Ogun	18.7	22.9	51.6	206
Ondo	29.0	14.2	43.5	293
Osun	51.2	11.5	30.8	296
Oyo	41.1	11.7	28.2	490
Plateau	72.9	7.0	26.3	606
Rivers	43.5	5.0	47.0	436
Sokoto	99.2	0.0	0.0	358
Taraba	69.0	12.9	29.5	256
Yobe	98.9	0.0	0.0	537
Zamfara	99.1	0.0	0.0	613
FCT Abuja	73.4	2.8	16.6	139
¹ MICS indicator 12.4 - Use of alcohol before age 15 ^[M] ^[M] MICS indicator 12.3 - Use of alcohol				

Appendix A. Sample Design

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

The primary objective of the sample design used for the fifth round of the Nigeria Multiple Indicator Cluster Survey (MICS5) was to produce statistically reliable estimates of most indicators, at the national, state and geo-political zone levels as well as at the Senatorial district level for Lagos and Kano States. A multi-stage, stratified cluster sampling approach was used for the selection of the survey sample.

Sample Size and Sample Allocation

The sample size for the Nigeria MICS5 was calculated as 37,440 households. Determination of the number of sample households (denoted as n), generally uses the following formula that is based on the parameters of the distribution of a characteristic adopted as the design variable and on a number of other parameters that affect the precision. The required sample size n is given as:

$$n = \frac{4 * r * (1 - r) * deff}{(RME * r)^2 * pb * AveSize * RR}$$

where:

- r = Predicted value of indicator (in target/base population) □ deff = Design effect
- RME = Relative margin of error at 95% confidence level
- pb = Proportion of target/base population in total population
- AveSize = Average household size
- RR = Response rate

The principal domain of reporting to which the sample size n refers in this calculation is the state. For this sample design, determination of the sample size is based on the indicator stunting prevalence in under-5 children as the design variable. The results from the MICS4 of 2011 reported stunting prevalence at 35.8 percent at the national level. This estimate had a relatively high design effect (deff) of 4.85, indicating a large clustering effect for this characteristic. However, with the more efficient sample design for the MICS 2016-17 it was expected that the deff will be lower, so a value of 3.5 was assumed for the deff in calculating the sample size. The value for pb (percentage of children aged 0-4 years in the total population) based on the results of the MICS4 2011 and NDHS 2013 is 17.1; and Average Size (average household size) is 5.0. For state-level results, it is reasonable to use a relative margin of error (RME) of 18%. Based on previous survey results, the household response rate is assumed to be 95%. Using the formula above, this calculation gives a total number of 954 sample households per state.

For 34 states and the FCT Abuja a sample of 60 EAs was selected per state and 16 households per EA, which gives a sample size of 960 households in each of these states. Six (6) replicates containing ten (10) EAs/clusters each was selected from the NISH2 master sample for each of these states. In the case of Kano and Lagos States,

additional results were needed at the level of the three senatorial districts in each state. Therefore a sample of 40 EAs per senatorial district was selected in these two states from the NISH2 master sample, for a total of 120 sample EAs and 1,920 sample households in each state. The total sample size for Nigeria was 37,440 households. And the selection of 16 households per EA slightly reduces the design effects compared to the MICS 2011, in which 20 households were selected per EA

Sampling Frame and Selection of Clusters

The MICS sample clusters were selected from the NISH2 master sample, based on the 2006 census frame. For the NISH2 master sample census enumeration areas were defined as primary sampling units (PSUs), and were selected from each of the sampling strata by using systematic pps (probability proportional to size) sampling procedures; the measure of size was based on the number of households in each enumeration area from the 2006 Population and Housing Census frame. The first stage of sampling was thus completed by selecting the required number of enumeration areas from each of the 36 states of the federation and FCT Abuja which cut across urban and rural areas.

Listing Activities

Since the sampling frame (the 2006 Census) was not up-to-date, a new listing of households was conducted in November, 2015 for all the sample enumeration areas prior to the selection of households. For this purpose, listing teams were formed who visited all of the selected enumeration areas and listed all households in each enumeration area. Selected staff of National Bureau of Statistics (NBS) in all the states carried out the listing exercise. Six (6) teams were constituted that carried out the listing exercise in each state except Lagos and Kano where twelve teams were constituted respectively. Each team comprises of 2 enumerators and one (1) supervisor who supervised two (2) teams. There were three (3) supervisors in each of the 35 states, and six (6) supervisors for Lagos and Kano states respectively. The listing exercise lasted for twelve (12) days. Out of the 2,340 enumeration areas selected for the household listing, one hundred and one (101) of them were not visited because they were inaccessible due to insecurity during the listing exercise.

Selection of Households

Lists of households were prepared by the listing teams in the field for each enumeration area. The households were then sequentially numbered from 1 to N (the total number of households in each enumeration area) at the National Bureau of Statistics (Field Services and Methodology Department), where the selection of 16 households in each enumeration area was carried out using systematic selection procedures.

The survey also included a questionnaire for individual men aged 15 to 49 years that was to be administered in one-half of the sample of households, with every even household number in each sample cluster selected for interviews with all eligible men.

Within each stratum, 30 enumeration areas were systematically selected within the sampled cluster and water quality test questionnaire which was administered. A systematic sample of one-fifth of the households (3 households out of the 16 selected households) was carried out within the selected enumeration areas for water quality test.

Calculation of Sample Weights

The Nigeria MICS sample is not self-weighting. Essentially, by allocating equal numbers of sample households to each of the states, different sampling fractions were used in each state since the sizes of the states varied. For this reason, sample weights were calculated and these were used in the subsequent analyses of the survey data.

The basic weight for each sample household is equal to the inverse of its probability of selection (calculated by multiplying the probabilities at each sampling stage). The probability of selection for the MICS 2016 sample households for 34 states (excluding Kano and Lagos) and Abuja FCT can be defined as follows:

$$P_{SLi} = \frac{n_{SL}}{N_{SL}} \times \frac{200 \times \left(\frac{N_{SL}}{n_{SL}} \right)}{\sum_{LS} N_{SL}} \times \frac{6}{20} \times \frac{m_{SLi}}{M'_{SLi}} = \frac{60}{N_S} \times \frac{m_{SLi}}{M'_{SLi}}$$

The first component of this probability corresponds to the LGA master sample and the second component corresponds to the NISH2 master sample

In the case of the states of Kano and Lagos, the NISH2 master sample EAs were stratified by senatorial district and the EAs were selected separately within each senatorial district. Therefore the corresponding probability of selection for the MICS 2016 sample households in these two states is expressed as follows:

$$P_{SDi} = \frac{n_{SL}}{N_{SL}} \times \frac{200 \times \left(\frac{N_{SL}}{n_{SL}} \right)}{\sum_{LS} N_{SL}} \times \frac{n'_{SD}}{n_{SD}} \times \frac{m_{SDi}}{M'_{SDi}} = \frac{200}{N_S} \times \frac{n'_{SD}}{n_{SD}} \times \frac{m_{SDi}}{M'_{SDi}}$$

where:

p_{SDi} = overall sampling probability for households selected based on the NISH2 master sample in the i-th sample EA in senatorial district D within state S

n'_{SD} = number of sample EAs selected for the MICS 2016 from the NISH2 master sample for senatorial district D of state S, generally equal to 40

n_{SD} = total number of NISH2 master sample EAs in senatorial district D of state S

m_{SDi} = total number of sample households selected in the i-th sample EA in senatorial

district D of state S (generally equal to 16)

M'_{DLi} = number of households listed in the i-th sample EA in senatorial district D of state S

Since the number of households in each enumeration area (PSU) from the 2006 Census frame used for the first stage selection and the updated number of households in the enumeration area from the listing are generally different, individual overall probabilities of selection for households in each sample enumeration area (cluster) were calculated.

The basic weight for the MICS 2016 sample households is the inverse of the overall probability of selection, calculated as follows:

$$W_{SLi} = \frac{1}{P_{SLi}} \quad \text{or} \quad W_{SDi} = \frac{1}{P_{SDi}}$$

It is also important to adjust the basic weights for the households to take into account the non-response at the stratum level. The final adjusted (raw) weight for the sample households in each sample EA is expressed as follows:

$$W'_{SLi} = W_{SLi} \times \frac{m'_S}{m''_S} \quad \text{and} \quad W'_{SDi} = W_{SDi} \times \frac{m'_{SD}}{m''_{SD}}$$

where:

m'_S = total number of in-scope sample households selected in state S

m''_S = number of sample households with completed MICS questionnaires in state S

m'_{SD} = total number of in-scope sample households selected in senatorial district D of state S (for Kano and Lagos states)

m''_{SD} = number of sample households with completed MICS questionnaires in senatorial district D of state S (for Kano and Lagos states)

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

Following the adjustment of the raw household weights for non-response, these weights are generally normalized (standardized) so that relative weights are used for the analysis of the survey data. In this way the sum of the relative weights is equal to the number of sample households at the national level. The household weights were normalized by dividing each weight by the average weight at the national level (that is, the sum of the weights for all sample households divided by the number of sample households).

Given that sometimes it is not possible to complete a woman questionnaire for each eligible woman identified in a sample household, it is also necessary to have a separate woman weight with an additional nonresponse adjustment factor applied to the household weight at the stratum level. The adjusted woman weight is expressed as follows:

$$W_{SLi} = W'_{SLi} \times \frac{f_S}{f'_S} \quad \text{or} \quad W_{SDi} = W'_{SDi} \times \frac{f_{SD}}{f'_{SD}}$$

where:

f_S = total number of women age 15 to 49 years identified in the roster for all sample households in state S

f'_S = number of women with completed interviews for all sample households in state S

f_{SD} = total number of women age 15 to 49 years identified in the roster for all sample households in senatorial district D of state S (for Kano and Lagos states)

f'_{SD} = number of women with completed interviews for all sample households in senatorial district D of state S (for Kano and Lagos states)

There were cases where a child questionnaire was not completed for all the children under 5 years in some sample households. Therefore a separate child weight with an additional non-response adjustment factor applied to the adjusted household weight was used. The adjusted child weight is expressed as follows:

$$W_{cSLi} = W'_{cSLi} \times \frac{c_S}{c'_S} \quad \text{or} \quad W_{cSDi} = W'_{cSDi} \times \frac{c_{SD}}{c'_{SD}}$$

where:

c_S = total number of children under 5 years identified in the questionnaire roster for all sample households in state S

c'_S = number of children with completed interviews for all sample households in state S

c_{SD} = total number of children under 5 years identified in the roster for all sample households in senatorial district D of state S (for Kano and Lagos states)

c'_{SD} = number of children under 5 years with completed interviews for all sample households in senatorial district D of state S (for Kano and Lagos states)

The weights for the men questionnaires were calculated in the same way as the women weights, except that the raw household weight was multiplied by 2, since half of the sample households were selected for the men's questionnaires. In this case the number of sample men in the numerator and denominator of the nonresponse adjustment factor was based only on the sample households selected for the men's questionnaires.

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

The women, men and child weights are normalized in the same way as the household weights. In this case the full (raw) weights were divided by the average women, men or child weight, respectively.

Sample weights were appended to all data sets and analyses were performed by weighting households, women, men, or under-5s with these sample weights.

Sample for the Nigeria National Immunisation Coverage Survey (NICS)

The primary objective of the sample design to be used for the Nigeria National Immunisation Coverage Survey (NICS) is to provide estimates of vaccine coverage for the country, at the national, state and geo-political zone. Since the MICS covers the child immunization and other questions required for the NICS, it was decided to use the data from the entire MICS sample, and to select additional sample EAs and households for some states that required a larger sample for NICS. In the supplemental sample of households a smaller NICS questionnaire was used that only included the household and child immunization questions required for the NICS analysis.

In the case of states without a supplemental sample for NICS, only the MICS data were used for NICS, so the the sample design and weighting procedures are the same for both surveys. For states with a supplemental sample, additional sample EAs were selected for the NICS from the NISH2 master sample, excluding the replicates already selected for the MICS. A sample of 16 households was also selected in each of the supplemental sample of EAs

for the NICS from the new listing in these EAs. Therefore the sampling methodology for the NICS is consistent with that of the MICS described above.

The weighting procedures for the NICS data are similar to those described above for the MICS, although the higher total number of sample EAs selected for the NICS in some states is used in the formulas for calculating the household weights. An additional weight was calculated for the children age 12 to 23 months since the immunization rates were based on this subgroup of children. The procedures for adjusting these child weights for nonresponse were similar to those for calculating the weights for children under 5 years for the MICS, but in the case of the NICS weights the numerator and denominator of the adjustment factor were based on the data for the children 12 to 23 months.

The sample size for the Nigeria NICS was calculated as 44,960 households. However, the sample size for the Nigeria MICS 2016-17 was not sufficient to estimate state level vaccination coverage for children aged 12 to 23 months in twenty states, namely: Abia, Akwa Ibom, Anambra, Bayelsa, Benue, Cross River, Delta, Edo, Ekiti, Enugu, Imo, Kogi, Kwara, Ogun, Ondo, Osun, Oyo, Plateau, Rivers and FCT (Abuja). The determination of the number of sample households (denoted as n), was the same except the supplementary sample which was based on conservative projection of 95% confidence interval for Penta3. The intra-cluster correlation coefficient (ICC) was conservatively calculated to be $1/3$. The design effect was estimated as $DEFF \approx 1 + (\text{average respondents per cluster} - 1) \times ICC$.

For the twenty (20) supplementary states, the sample ranging from 10 to 30 EAs was selected per state and 16 households per EA, which gives a sample size ranging from 160 to 480 households in the states. One (1) or two (2) or three (3) replicates containing ten (10) EAs/clusters were selected from the NISH2 master sample in the states.

Listing exercise was conducted in March, 2016. One (1) or two (2) or three (3) team(s) was constituted that carried out the listing exercise in each state. Each team comprises of 2 enumerators and one (1) supervisor. The listing exercise lasted for twelve (12) days.

Within each stratum for NICS with inclusion of MICS, enumeration areas (ranging from 60 to 120) were systematically sampled from the NISH2 master sample. After a household listing was carried out within the selected enumeration areas, a systematic sample of 16 households was also drawn in each sample enumeration area. Out of 2810 enumeration areas selected for coverage, only 2,702 enumeration areas were listed and covered during the fieldwork period. A total of 108 EAs could not be enumerated because they were inaccessible due to insecurity during the fieldwork period.

DISTRIBUTION OF EAs AND HOUSEHOLDS BY STATE

S/NO	State	EAs per state	HHs per EA	Total HHs per state
1	Abia	30	16	480
2	A/Ibom	20	16	320
3	Anambra	20	16	320
4	Bayelsa	20	16	320
5	Benue	20	16	320
6	C/River	20	16	320
7	Delta	20	16	320
8	Edo	30	16	480
9	Ekiti	20	16	320
10	Enugu	20	16	320
11	Imo	30	16	480
12	Kogi	30	16	480
13	Kwara	20	16	320
14	Ogun	20	16	320
15	Ondo	30	16	480
16	Osun	10	16	160
17	Oyo	30	16	480
18	Plateau	30	16	480
19	Rivers	30	16	480
20	FCT, Abuja	20	16	320
TOTAL		470		7,520

Appendix B. List of Personnel Involved in the Survey

Statistician-General of the Federation

Dr. Yemi Kale

Project Director

Dr. Isiaka Olarewaju

UNICEF Staff- Technical Support

1. Denis Jobin 2. Adeniyi Olaleye 3. Raymond Akor 4. Binta Isah-Ismail 5.
Danjuma Al-Mustapha 6. Maureen Zubie-Okolo 7. Oluchi Ally 8. Ghislain
Mbep

Project Coordinators

1. Adeyemi Adeniran - National Coordinator
2. Samanja B. Maudu - Field Services & Methodology
3. Adebisi Adebayo Tunde -Sampling Expert
4. Fafunmi Elisha A. - ICT

- 5. Harry Simon B. - CPTC
- 6. Eweama Patricia M. - DSSD
- 7. Nemi Okujagu - TA-SG

- 9. Michele Seroussi- Regional Office
- 10. Achraf Mohamed Mrabet- Regional office
- 11. Issa Kone-Regional Office
- 12. Denis Businge – MICS 5 Consultant

Further analysis and Survey Finding Report

Independent Monitors

1	Adeyemi Adeniran	1	Prof. Dandaura Samu				
2	Adebisi Adebayo Tunde	2	Dr. Sunday A. Taiwo				
3	Fafunmi Elisha A. 3	Michael Mukaila Imohi		4	Kola Ogundiya	4	Oluwole Muiyiwa
	Smile						
5	Kareem Bolakale Akeem	5	Dr. Faniran Sanjo				
6	Abiola Arosanyin 6	Adzuayi Jessica Ahgu	7	Bridget Ebohdaige	7	Kazeem	
	Adekunle Saliu						
8	Salihu Itopa	8	Moses Oduwole				
9	Shamsudeen Lawal	9	Adeniji Beatrice O.	10	Rasheed Lawal O.	10	
	Nureni Adeshina Sanni	11	Umar F. Mohammed	11	Olarewaju Mukaila B.		
12	Dambatta Mustapha Abba	12	Emuesiri Ojo				
13	Hamisu Hussaini	13	Dr. Benedicta C. Agusiobo				
14	Aliyu Mohd Abdullahi	14	Adedeji Adeyinka				
15	Salihu Hussain Dogara						
16	Bamidele-Alao Aramide Tawa			17	Ajayi Binyamin Adeniyi		
18	Odeyemi Oluwafunmilayo Aderonke						

Data Analysis and Table Interpretation

- 1 Adeyemi Adeniran 8 Elutade Adeyeye 2 Fafunmi Elisha A. 9 Bridget Ebhodaghe 3 Vincent Oriokpa 10 Isah Stella
- 4 Kola Ogundiya 11 Paul Oshokumoboh
- 5 Kareem Bolakale A. 12 Sam-Fidelis Regina
- 6 Shamsudeen Lawal 13 Folorunsho Busari- DP Consultant
- 7 Abiola Arosanyin

Collaborating Agencies

1	Ronke Adeoye	NACA	1	Dr Eric Nwaeze	NPHCDA
2	Dr. Greg Ashefor	NACA	2	Dr Obasi Samuel	NPHCDA
3	Dr. Kayode Ogungbemi	NACA	3	Analyst Dare Pandey	NPHCDA
4	Victoria Igbe	NACA	4	Bala Abubakar	NPHCDA
5	Anikene Moses Rock	NACA	5	Dr Phyllis Ogo Ogah	NPHCDA
6	Idoteyin Ezirim	NACA	6	Ochepo Sani	NPHCDA
7	Garba Danjuma	NACA	7	Susan Michael Olufemi	NPHCDA
8	Ogungbemi Ojo O.	NACA	8	Onasoga E. O.	NPHCDA

SOUTH WEST

Nemi Okujagu	Coordinator	Fafunmi Elisha A.	Coordinator
Kareem Bolakale Akeem	Lead Trainer	Omole Mathew F.	Lead Trainer
Abiola Arosanyin Trainer	Salihu S. Itopa Trainer	Olatunbosun Olutundun M. Trainer	Imeh Udoabah Trainer
Akinbusoye Caroline Trainer	Origbo Clinton Trainer	Umunna N. Christiana Trainer	Bridget Ebhodaghe Trainer
Akhidenor Lawrence O. Trainer	Felicia A. Obamedo Trainer		
Mercy E Mosugu	Technical Raporteur	Ajadi Abosede Bamidele	Technical Raporteur
Akindele Akinyemi CAPI Manager	Olawale W. George	CAPI Manager Kareem Sikirulahi Tolani	CAPI
Manager Egweni Uzoazi	CAPI Manager		
Babalola E. Ayodele	WQT Expert	Eneh Ogochukwu	WQT Expert
Osude Olanrewaju	WQT Expert	Isaacs O. Olufunke	WQT Expert

SOUTH SOUTH

SOUTH EAST

Eweama Patricia. M	Coordinator	Samanja B. Maudo	Coordinator
Ajibade Talabi Olatunji	Lead Trainer	Ogundiya Kola John	Lead Trainer
Esho Olusegun Trainer	Kanu Christiana Ngozi Trainer	Ejuma Rachael Akpa Trainer	Aimola Oluwanikemi Olusoji Trainer
Udeh Surely Trainer	Shamsuddeen Lawal Trainer	Nkemakolam Hope Chioma Trainer	Simon Appolonia Trainer
Aroniyo Ajoke M. Trainer	Lateef Olasunkanmi Trainer		
Oche Alice	Technical Rapoteur	Oluyomi Samuel Olanrewaju	Technical Rapoteur
Dio Emmanuel Asemayohol CAPI Manager	Omoniyi Ronke	CAPI Manager Oriokpa Ijeoma .V	CAPI
Manager Bakare Saheed	CAPI Manager		
Onen Sunday Dennis	WQT Expert	Amina Musa	WQT Expert
Kunehepon Peter W	WQT Expert	Samuel Daniel Laumu	WQT Expert

NORTH WEST

NORTH EAST

Harry Simon B.	Coordinator
Ameh Godwin Ejeh	Lead Trainer
Oladokun Taiwo	Trainer
Agada Nnenna	Trainer
Ekele Azubike	Trainer
Ezekiel C. Bala	Trainer
Elutade Akinloye A.	Trainer

NORTH CENTRAL

Adebisi Adebayo Tunde	Coordinator
Olise Ofili Patrick	Lead Trainer
Ejah Moses Ode	Trainer
Uzoaga Glory .A.	Trainer
Mbamo Peter E.	Trainer
Akor Geoffrey	Trainer
Solademi Abigail Abosede	Trainer

Ihemebiri Calistus	Technical Rapoteur	Awogbade Ezekiel	Technical Rapoteur
Samuel Adakole Augustine	CAPI Manager	Ogidan Lucky Ayokunle	CAPI Manager
Kibba Daniel Musa	CAPI Manager	Rasheed Nasir Bukola	CAPI Manager
Ishak Danasabe Isah	WQT Expert	Abdulkadir Halimat J.	WQT Expert
Abdullahi Abubakar Sule	WQT Expert	Yusuf Salamatu	WQT Expert

Institutional Members of National Steering Committee for Multiple Indicator Cluster Survey (MICS 2016-17)

- 1 National Bureau of Statistics – Chair
- 2 National Population Commission
- 3 Ministry of Budget and National Planning
- 4 Federal Ministry of Health
- 5 Federal Ministry of Education
- 6 Central Bank of Nigeria
- 7 National Agency for the Prohibition of Traffic In Person
- 8 National Primary Health Care Development Agency
- 9 Kano State Bureau of Statistics
- 10 United Nations Development Programme
- 11 United Nations Population Fund
- 12 World Bank
- 13 Department for International Development
- 14 European Union
- 15 Centre for Disease Control
- 16 World Health Organisation
- 17 Oxford Policy Management
- 18 Save One Million Lives
- 19 Save the Children International

LIST OF FIELD PERSONNEL FOR MICS 2016-17 NIGERIA NORTH CENTRAL

	BENUUE STATE		FCT		
Yamekaa Simon Terlumun	Male	State Officer	Rakiya Onize Mohammed	Female	State Officer
Terlumun Msughter Damian	Male	Supervisor	Omoifo Betty Wright	Female	Supervisor

Usombu Chris	Male	Supervisor	Ogundele K. Hannah Okocha	Female	Supervisor
Ogbenjuwa Rose	Female	Measurer	Nkem	Female	Measurer
Ameh Theresa	Female	Measurer	Achineke Precious O.	Female	Measurer
Bulya Tivlumun J	Male	Interviewer	Utuh Loveth Eloyi	Female	Interviewer
Ladi Micheal	Female	Interviewer	Imeboreh Richard Abioye	Male	Interviewer
Imoh Regina Ngongee	Female	Interviewer	Joshua O.	Male	Interviewer
Olarewaju Jennifer	Female	Interviewer	Momodu Rabiat K.	Female	Interviewer
Oligo Chidi	Male	Interviewer	Ajimoti Rofiat M.	Female	Interviewer
Ann Ene Adikwu	Female	Interviewer	Orimiyeye Ruth Abiodun	Female	Interviewer
Stella Akor	Female	Interviewer	Kakwagh Mnena Naomi	Female	Interviewer
Ikye Dodo Victoria	Female	Interviewer	Daniel Kyauta Kate	Female	Interviewer

KOGI STATE

Jubelo Ayinke O.	Female	State Officer
Ahmed Elizabeth Adeoro	Female	Supervisor
Matthew Ojone	Female	Supervisor
Adebayo Ife	Female	Measurer
Adejo Roseline	Female	Measurer
Yusufu Enyo-One Adija	Female	Interviewer
Ibrahim Kantum	Female	Interviewer
Jubelo Favour	Female	Interviewer
Agbawn Mary	Female	Interviewer
Seweje Yemisi Eunice Ikawi	Female	Interviewer
Attah Godwin Owolabi	Male	Interviewer
Comfort F.	Female	Interviewer
Egah Samson Ojodomoo	Male	Interviewer

KWARA STATE

Halilu Musa	Male	State Officer
Williams Funmilola Elizabeth	Female	Supervisor
Olaitan Fatai	Male	Supervisor
Oyewale Oluwafunmike T.	Female	Measurer
Akinade Suliyat Opeyemi	Female	Measurer
Ogunkunle Gloria O.	Female	Interviewer
Sanni Rukayat O.	Female	Interviewer
Yemisi Amos	Female	Interviewer
Adi Oluwatoyin M.	Male	Interviewer
Kolawole Abigael F.	Female	Interviewer
Oyedele Rebecca A.	Female	Interviewer
Ayo Joshua	Male	Interviewer
Lawal Tolulope Moyinoluwa	Female	Interviewer

NASARAWA STATE

Akor Samson Sunday	Male	State Officer
Ekpenyong Iboru David	Female	Supervisor
Siyaka Itopa	Male	Supervisor
Yakubu Izzatu Akwe	Female	Measurer
Mariam Peter	Female	Measurer
Danjuma Bulus Lami	Female	Interviewer
Kambasaya Ruth Samaila	Female	Interviewer
Jacob Favour F. Amos	Female	Interviewer
Ruth Garinwani	Female	Interviewer
Babade Lolade	Female	Interviewer
Aranilu E. Oloruntoba	Male	Interviewer
Hassana Haruwa	Female	Interviewer

NIGER STATE

Ejeh Zakari S.	Male	State Officer
Ogunkunle Kayode G.	Male	Supervisor
Maxwell Gambo	Male	Supervisor
Olayemi E. Tobi	Female	Measurer
Adenike Oyeniran	Female	Measurer
Ajayi Taiwo Eunice	Female	Interviewer
Ada Emmanuel	Female	Interviewer
Mosadomi Bukola	Female	Interviewer
Ajiboye O. Oluwatosin	Female	Interviewer
Ojo Mayowa Tokunbo	Male	Interviewer
Paulina Kasimi	Female	Interviewer
Talatu Salihu	Female	Interviewer

Ibrahim Yusuf Alhassan	Male	Interviewer
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Ibrahim Mustapha Wakili	Male	Interviewer
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PLATEAU STATE

Wakili Ibrahim N.	Male	Zonal Controller	Esther Dung Botson	Female	Interviewer
Danladi S. Adzento	Male			Female	Interviewer
Onwuzulumba Livinus	Male	State Officer	Amboson Dorothy J.L.	Female	Interviewer

		Supervisor	Mercy Donatus		
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Joseph Juwer	Male	Supervisor	Temitope Lamidi	Female	Interviewer
Jessica Kagher	Female	Measurer		Female	Interviewer
Mary Aniya	Female	Measurer	Janet Adewumi Adetutu	Male	Interviewer
Hannah Abeka	Female	Interviewer		Female	Interviewer

Abdulmalik Farouk

Yaksat Nanbam Bulus

NORTH EAST

ADAMAWA STATE

John B Dawala					
Blessing Yaro	Male	State Officer			
Augustine Elizabeth. K	Female	Supervisor			
Kefas Sarah	Female	Supervisor			
Obida Piyana Yakubu	Female	Measurer			
Yaduma. B. Elva	Female	Measurer			
Umar. H. Jada	Female	Interviewer			
Mohammed. U. Babaji	Male	Interviewer			
Janet John	Male	Interviewer			
Rahab Anthony	Female	Interviewer			
Maryam Mohammed	Female	Interviewer			
Rosemary Danladi	Female	Interviewer			
Halima Abubakar	Female	Interviewer			

BAUCHI STATE

Martina J Saleh	Female	State Officer			
Yusuf Arkila Isty	Male	Supervisor			
Eunice Joel	Female	Supervisor			
Talatu Jonathan	Female	Measurer			
Felicia Ezekiel. D	Female	Measurer			
Usman Magaji	Male	Interviewer			
Sulismaya Rose.	Female	Interviewer			
Talatu Abel	Female	Interviewer			
Simnom Fudack	Female	Interviewer			
Saleh Hauwa. Y.	Female	Interviewer			
Fatsuma Garba	Female	Interviewer			
Habiba Yusuf Jalingo	Female	Interviewer			
Abdul Salihu Isah	Male	Interviewer			

BORNO STATE

James Abawu	Male	State Officer			
Ladi James	Female	Supervisor			
Rahila James Zoaka	Female	Supervisor			
Fatima Alkali	Female	Measurer			
Bintu Kwajaffa	Female	Measurer			
Rebecca Ishaku	Female	Interviewer			
Aisha Musa Bala	Female	Interviewer			
Yagana Babagoni	Female	Interviewer			
Prisca Pius Apagu	Female	Interviewer			
Ngwasal Dauda	Female	Interviewer			
Rahab Samuel	Female	Interviewer			
Maina J Gadzama	Male	Interviewer			

GOMBE STATE

Muhammed Musa	Male	Zonal Controller			
Lawal Wabida Mary	Female	State Officer			
Tarpaya Jadi Lassa	Male	Supervisor			
Lenus Abner Wabida	Male	Supervisor			
Ramatu Philemon . J.	Female	Measurer			
Rasheeda Nuhu	Female	Measurer			
Sule Uloko	Male	Interviewer			
Alisabatu A Fanusi	Female	Interviewer			
Binta Wabida	Female	Interviewer			
Piyadi Richard	Female	Interviewer			
Gidado Hauwa	Female	Interviewer			
Nafisa Dagaban Ali	Female	Interviewer			

Abdumumini Ajiya	Male	Interviewer	Talatu Simon	Female	Interviewer
			Bridget Bakar	Female	Interviewer

TARABA STATE

Abdullahi Ibrahim	Male	State Officer
Ikoti. G. Abishag	Female	Supervisor
Jesse . I. Charity	Female	Supervisor
Yakubu Felicia	Female	Measurer
Bulus Japari	Female	Measurer
Shaakaa .M. Charity	Female	Interviewer
Tanko Ibrahim	Male	Interviewer
Lydia Dulla	Female	Interviewer
Hassan Cassandra	Female	Interviewer

YOBE STATE

Musa .D . Yusuf	Male	State Officer
Ladi Abdullahi	Female	Supervisor
Amina Ali	Female	Supervisor
Alice Musa	Female	Measurer
Musa Ruth	Female	Measurer
Abatcha Aliyu	Male	Interviewer
Hauwa Kaku Amshi	Female	Interviewer
Victoria Nicodemus	Female	Interviewer
Binta Sani Ahmed	Female	Interviewer

Pius Taiku Rejoice	Female	Interviewer	Usman Musa Baran-Iya	Male	Interviewer
Adamu Tasiu	Male	Interviewer	Hajara Modu Mbusube	Female	Interviewer
Jitap. Charity	Female	Interviewer	Shehura Umar	Female	Interviewer
Gayus Regina. A	Female	Interviewer	Aisha Barma Kachalla	Female	Interviewer

NORTH WEST

JIGAWA STATE

Abdul N. Danliman	Male	State Officer
Ibrahim Danjuma Roni	Male	Supervisor
Patricia Julius Bitiyong	Female	Supervisor
Fatima Hamza	Female	Measurer
Olatunde Olapeju	Female	Measurer
Olarinde.B.Cathenye	Female	Interviewer
Aishatu Dahiru Musa	Female	Interviewer
Elsie Njeb Lawrence	Female	Interviewer
Hauwa Aliyu Badala	Female	Interviewer
Musa Suleiman	Male	Interviewer
Cecilia Kwaghker	Female	Interviewer
Fatima Iyami Idris	Female	Interviewer
Hamza Abdullahi Nuhu	Male	Interviewer

KADUNA STATE

Ishaku Zom Maigida	Male	Zonal Controller
Makoshi Bonat Joshua	Male	State Officer
Waidi Ademola	Male	Supervisor
Rose Tembe	Female	Supervisor
Isaac Janet	Female	Measurer
Christiana Bonat	Female	Measurer
Abubakar Sadiq	Male	Interviewer
Esther Andrem	Female	Interviewer
Deborah David Amboson	Female	Interviewer
Marylous Ado	Female	Interviewer
Rahman Taibat	Female	Interviewer
Sadiq Dauda Mandara	Male	Interviewer
Jackson Elizabeth Rizga	Female	Interviewer
Amina Maigida	Female	Interviewer

KANO STATE

Ayuba S. Ayuba	Male	State Officer
Umar F. Mohammad	Male	D KSBS

KATSINA STATE

Abdullahi Dahiru	Male	State Officer
Suleman Yusuf	Male	Supervisor

Abba Mustapha Dabatta	Male	D KSBS	Hadizam Ochgbo	Female	Supervisor
Ali Sani Fane	Male	SG KSBS	Josephine James	Female	Measurer
Victoria Baita	Female	Supervisor	Mani Fatima Rabe	Female	Measurer
Abubakar Jubril	Male	Supervisor	Zainab Sulaiman	Female	Interviewer
Kubura Abdulkarim	Female	Supervisor	Jummai `Suleiman	Female	Interviewer
Aisha Adamu	Female	Supervisor	Hauwa Dahiru	Female	Interviewer
Rakiya Ahmed Daneji	Female	Measurer	Ummah Abdullahi	Female	Interviewer
Safiyya Ahmed Moh'd	Female	Measurer	Hauwa Mati	Female	Interviewer
Baraatu Zuberu	Female	Measurer	Jummai Sani	Female	Interviewer
Nana Hauwa Sule	Female	Measurer	Muhammad Aminu Mustapha	Male	Interviewer
Habiba Umar Ismail	Female	Interviewer	Ibrahim Yusuf Umar	Male	Interviewer
Maryam Umar Nuhu	Female	Interviewer			
Aisha Kabir Abdulaziz	Female	Interviewer	KEBBI STATE		
Bilkis Odeyemi	Female	Interviewer	Saidu Saleh	Male	State Officer
Aisha Mustapha Hassan	Female	Interviewer	Aliyu Abubakar	Male	Supervisor
Khadija Aliyu Abubakar	Female	Interviewer	Balkisu Ibrahim Ahmed	Female	Supervisor
Sumayyah Aliyu Yahya	Female	Interviewer	Eunice .G. Magari	Female	Measurer
Rukayya Yakubu Ahmed	Female	Interviewer	Aishatu Ibrahim Aliyu	Female	Measurer
Eunice Abel	Female	Interviewer	Zainab Saleh	Female	Interviewer
Anas Tukur Usman	Male	Interviewer	Halima Musa Bazza	Female	Interviewer
Faizah Isah Sulaiman	Female	Interviewer	Usman Moh'd Altine	Male	Interviewer
Abubakar Saleem	Male	Interviewer	Binta Musa Aliyu	Female	Interviewer
Grace Kamain	Female	Interviewer	Aisha Hassan	Female	Interviewer
Suleiman Suleiman Muh'd	Male	Interviewer	Tijjani Alhassan.T	Male	Interviewer
Iyabo Rahinat Abdulganiyu	Female	Interviewer	Habiba Adamu N.	Female	Interviewer
Emmanuel Umolo	Male	Interviewer	Zaharadeen Inuwa	Male	Interviewer
SOKOTO STATE			ZAMFARA STATE		
Shehu Tambari	Male	State Officer	Hassan Haruna	Male	State Officer
Ahmad Dada Manga	Female	Supervisor	Garba Inuwa	Male	Supervisor
Theresa Danjumma	Female	Supervisor	Muh'd Z. Ibrahim	Male	Supervisor
Ojoawo Halima Oluwatoyin	Female	Measurer	Aisha Shuaibu	Female	Measurer
Mansurah Hamza	Female	Measurer	Fatima Muazu	Female	Measurer
Aisha Musa	Female	Interviewer	Larai H. Tanko	Female	Interviewer
Hannatu.A.Momoh	Female	Interviewer	Raymond Yohanna	Male	Interviewer
Zainab Abdullahi Ankah	Female	Interviewer	Dayyiba Isah Adamu	Female	Interviewer
Habiba Abdullahi	Female	Interviewer	Hafsat Tunau	Female	Interviewer
Suwaiba Inuwa	Female	Interviewer	Maryam Muhammed	Female	Interviewer
Samaila Muhammed	Male	Interviewer	Joshua Mariha Adamu	Female	Interviewer
Mustapha Umar	Male	Interviewer	Bannabas Charity	Female	Interviewer
Habiba Ahmed	Female	Interviewer	Jameel Usman Muhammad	Male	Interviewer

SOUTH EAST**ABIA STATE**

Onwughalu Ngozi H.	Female	State Officer
Isaac Precious Chika	Female	Supervisor
Ndukwe Ifeanyi	Female	Supervisor
Nnadede Christy C.	Female	Measurer
Erondu Chinwe	Female	Measurer
Onwughalu Ebube	Female	Interviewer
Okoli Victoria	Female	Interviewer
Uduma Chinyere U.	Female	Interviewer
Madubuko Ijuolachi	Female	Interviewer
John Taye	Female	Interviewer
Chinyere Anuri	Female	Interviewer
Chukwuka Paschal O.	Female	Interviewer
Kalu Chukwuemeka	Male	Interviewer

EBONYI STATE

Onyekachi F. C. Okoh	Male	State Officer
Kate U.	Female	Supervisor
Onyekachi Dorathy N.	Female	Supervisor
Sarah Uche E.	Female	Measurer
Agness Mathew	Female	Measurer
Ozioma Ejimaonu Odiakpa	Female	Interviewer
Lovett	Female	Interviewer
Ogbuzuru Maria N.	Female	Interviewer
Jane Ajogbor N.	Female	Interviewer
Asogwa Dorathy N	Female	Interviewer
Nwahiri Modesta	Female	Interviewer
Ekuma Ignatus Ogbonnia	Male	Interviewer
Innocent Nduka Ike	Male	Interviewer

ANAMBRA STATE

Okafor Maryrose N.	Female	State Officer
Omeje Ifeoma E.	Female	Supervisor
Edith O. Nwankwo	Female	Supervisor
Ifeyinwa Ogechukwu	Female	Measurer
Oragwam Onyinye	Female	Measurer
Okafor Judith Chizoba	Female	Interviewer
Mary Chizitere Eweama	Female	Interviewer
Okonkwo Ifeyinwa	Female	Interviewer
Ibebuike Chinenye Jecinta	Female	Interviewer
Izuchukwu Julita	Female	Interviewer
Enekwenchi Peace	Female	Interviewer
Ajao Kayode	Male	Interviewer
Ejike Hyginus N.	Male	Interviewer

ENUGU STATE

Efidi Edwin. C.	Male	Zonal Controller
Umeh Reuben .U.	Male	State Officer
Ugoh Maureen C.	Female	Supervisor
Nwobodo A. Nwakaego	Female	Supervisor
Ojumu Timi Edith	Female	Measurer
Chilaka Obiageri	Female	Measurer
Patience Ngozi Agu	Female	Interviewer
Onwuodionu Maureen	Female	Interviewer
Ofor Amarachukwu	Female	Interviewer
Uzoamaka Dimgba	Female	Interviewer
Onyebuchi Charity	Female	Interviewer
Umeh E. Chinyere	Female	Interviewer
Anigbo Ikechukwu	Male	Interviewer
Ekezie Chinemere Franklin I.	Male	Interviewer

IMO STATE

Madu Agatha N.	Female	State Officer	Ohia Cynthia Chinenye	Female	Interviewer
Ugwo Sylvia N.	Female	Supervisor	Eziefulu Akudo J.	Female	Interviewer
Unachukwu Perpetua C.	Female	Supervisor	Ekezie Patience C.	Female	Interviewer
Okoronkwo Oluchi L.	Female	Measurer	Onuoha Love C.	Female	Interviewer

Madu Vivian C.	Female	Measurer	Nwokoro Beatrice C.	Female	Interviewer
Uneze Juliana C.	Female	Interviewer		Male	Interviewer
Sunday Frank O.	Male	Interviewer	Olisa Onochie Stephen		

SOUTH SOUTH

AKWA IBOM STATE

Itat Ifiok Young	Male	State Officer
Udo Moses Thomas	Male	Supervisor
Umoh Ime Etim	Female	Supervisor
Lalemi Mary Oluwatosin	Female	Measurer
Mmeyene Ifiok Itat	Female	Measurer
Job Emmah Archibong	Female	Interviewer
Umoh Eno Ndarake	Female	Interviewer
Eyoh Grace Bassey	Female	Interviewer
Umoh Ukeme Etim	Female	Interviewer
Udoabah Eunice	Female	Interviewer
Imaobong Akpan Ekpo	Female	Interviewer
Atat Ekpedeme Tim	Male	Interviewer
Anietie Archibong	Male	Interviewer

BAYELSA STATE

Chukwu N Emmanuel	Male	State Officer
Nanakumo T Timi	Female	Supervisor
Forcebray Victoria K	Female	Supervisor
Nkereuwem N Bassey	Female	Interviewer
Braimah Suleiman Oboh	Male	Interviewer
Obi Charles	Male	Interviewer
Dienagha Ethel	Female	Measurer
Ibeawuchi Praisejah	Female	Measurer
Nina Menke-Ere S	Female	Interviewer
Anioligbo Beatrice	Female	Interviewer
Bozin Elizabeth	Female	Interviewer
Weimo Ayaokpo	Female	Interviewer
Nwofinya Wosu	Female	Interviewer

CROSS RIVER STATE

Oboh Ismaila Chicobey	Male	Zonal Controller
Oko Patrick Odey	Male	State Officer
Odu Glorita Nchong	Female	Supervisor
Eniang Effefiong Okon	Male	Supervisor
Odey Theresa Patrick	Female	Measurer
Okpe Eunice Ibenre	Female	Measurer
Benard E Effiong	Male	Interviewer
Effiong Andem Okon	Male	Interviewer

DELTA STATE

Agbebaku Sunday	Male	State Officer
Akpojaro E. Uyoyou	Female	Supervisor
Emordi Judith N	Female	Supervisor
Aziwe Obianuju Gloria	Female	Measurer
Osadebe Ahthonia	Female	Measurer
Okwonkwo R. Ngozi	Female	Interviewer
Ejumedia E. Evelyn	Female	Interviewer
Esimagboko Oghenegweke	Male	Interviewer

Ekiko Theresa Monday	Female	Interviewer	Adigwe C. Juliet	Female	Interviewer
Etuk Maeyen E	Female	Interviewer	Omili Furstina	Female	Interviewer
Henshaw Atim Okon	Female	Interviewer	Imafidon Omuekpen Grace	Female	Interviewer
Ogar Anita Ntima	Female	Interviewer	Agbache Velvet	Female	Interviewer
Agbor Martha	Female	Interviewer	Bello Adeyinka	Male	Interviewer
James Akedoh James	Female	Interviewer			

EDO STATE

Obaide Frank Ohikhenana	Male	State Officer
Robert Helen	Female	Supervisor
Mercy Okugbe A	Female	Supervisor
Atogbo Felicia O	Female	Measurer
Adesotu Ann Adesuwa	Female	Measurer
Origbo Onoriode	Male	Interviewer
Osakwua Ruth	Female	Interviewer
Ebhodaghe Clara	Female	Interviewer
Maureen O. Okukulabe	Female	Interviewer
Olanegan Temitope	Male	Interviewer
Jegede Oluwatoyin Jeninifer	Female	Interviewer
Idunoba Marian	Female	Interviewer
Gimba Fatima Onatana	Female	Interviewer

RIVERS STATE

Onwubiko Emmanuel	Male	State Officer
Iboyi Itive Joyce	Female	Supervisor
Nkechinyere Omodu	Female	Supervisor
Ogu Faith Iworima	Female	Measurer
Abu Penuel Osemudiamhe	Female	Measurer
Jumbo Rhoda	Female	Interviewer
Eli Queen Ngozi	Female	Interviewer
Emenogu Pauline	Female	Interviewer
Onyia Anthonia O	Female	Interviewer
Somba Stella Nyema	Female	Interviewer
Nwaboku Ikechuwu	Male	Interviewer
Daniels Blessing	Female	Interviewer
Wonah Sylvester Odeh	Female	Interviewer

SOUTH WEST

EKITI STATE

Otunuga O. Adebayo	Male	State Officer
Olagbemi Bosede T Omotola	Female	Supervisor
Eunice F.	Female	Supervisor
Ogidan Abisola Christanah	Female	Measurer
Babalola Bukola Mercy	Female	Measurer
	Female	Interviewer

LAGOS STATE

Phillip Samuel Ademola	Male	State Officer
Lawal Rasheed Olusegun	Male	SSA
Olowu Peter Kehinde Bakare	Male	SSA
Yekeen A.	Male	SSA
Idowu D. Oluyinka	Female	Supervisor
Omokehinde Oluyemi E.	Female	Supervisor

Obafemi Felicia F	Female	Interviewer	Fajingbesi Olatunbosun Olaitan	Male	Supervisor
Faleye Oluwatomilola	Female	Interviewer	Dike Martin	Male	Supervisor
Adetayo Funmilola E.	Female	Interviewer	Bamidele-Alao Aramide	Female	Interviewer
Aladeloye Oluwaseyi	Female	Interviewer	Hassan Amirat Oriyomi	Female	Measurer
Modupe Adebayo	Male	Interviewer	Ogundeyi Adekemi Adeola	Female	Interviewer
Lisemo Olusola Oriyomi Mojibola	Female	Interviewer	Oyeneye Oluronke I.	Female	Interviewer
Sakirat O.	Male	Interviewer	Abudu Mulikat A.	Female	Interviewer
Orimoloye Olawale O.			Adeyemo Titilola	Female	Interviewer

OGUN STATE

	Female	State Officer	Ayodele Mosunmola Abisola	Female	Interviewer
Osemene Augusta	Female	Supervisor	Ayeni Opeyemi Aina	Female	Interviewer
Awodokun Comfort Bisi	Female	Supervisor	Umah Taiwo	Female	Interviewer
Akinola Olubunmi Omolara	Female	Measurer	Olateju Simisola M.	Female	Interviewer
Lasisi Motunrayo R	Female	Measurer	Akinbusoye Tolulope R.	Male	Interviewer
Michael Stella Naomi	Female	Interviewer	Ifedapo Awoyele D	Female	Measurer
Maliki Symbiat Mary			Odeyemi Olufunmilayo	Female	Interviewer
			Aderonke	Female	Interviewer

Akingbesote J. Aderonke	Female	Interviewer	Okonji Oluyemisi Olusola	Female	Measurer
Olusesi Oluremi Khadijat	Female	Interviewer	Biliqis Y. Mustapha	Female	Measurer
Paul Ibukunoluwa Abayomi	Male	Interviewer	Mojeed Kehinde Lawal	Male	Interviewer
Jafar Bilikis Ayannike	Female	Interviewer	Farouk O. Kudevi	Male	Interviewer
Olukoga Funmiola Christiah	Female	Interviewer	David F.	Male	Interviewer
Adepeju Oderanti	Female	Interviewer	Emiowei Vivian	Female	Interviewer
Odunlami Ayodeji O.	Male	Interviewer	Adeniran Barakat	Female	Interviewer
			Emiowei Vivian C	Female	Interviewer

ONDO STAE

Olowoyeye Gbenga M	Male	State Officer
Owolewa Nike	Female	Supervisor
Ali Waheed Abiodun	Male	Supervisor
Arowomo Idowu	Female	Measurer
Ogundairo Folasade	Female	Interviewer
Abiodu Cecilia	Female	Interviewer

OSUN STATE

Olujimi Risikat Odeseye	Male	State Officer
Moriliat A. Adewoye	Female	Supervisor
Kareem Tajudeen	Male	Interviewer
Olubiyi olaitan Olaide	Female	Interviewer
Agbowuro Wuraola oladunni	Female	Supervisor

Nenuwa Oluwatosin Morayo	Female	Interviewer	Ajibola Imoleayomide Mercy	Female	Interviewer
Adenawoola Mercy	Female	Interviewer	Adeyanju Adeola Mercy	Female	Interviewer
Funmilola Adewoye	Male	Interviewer	Oyegbile Victoria Wumi	Female	Measurer
Aderibigbe Abee Adetunji	Male	Interviewer	Adewoye Omolade Yewande	Female	Interviewer
Oladeji Kehinde Oreoluwa	Female	Measurer	Olarewaju Abolaji Benjamin	Male	Interviewer
Daramola Omolara	Female	Interviewer	Oladele Temitope Esther	Female	Interviewer
Ayomide Kolade	Female	Interviewer	Olarewaju Elizabeth	Female	Measurer
Adejumo Kehinde Onaolapo	Female	Interviewer	Solademi Opeyemi Comfort	Female	Interviewer

OYO STATE

Odunlami Ebenezer Oluwanbe	Male	Zonal Controller
Olugbode Morufu Adeoye	Male	State Officer
Adejumo Elizabeth Temilade	Female	Supervisor
Onawale Mojisola .O.	Female	Supervisor
Osidele Adesola Adeniji	Female	Interviewer
Folasade	Female	Interviewer
Adeniran Afeez .A.	Male	Interviewer

OYO STATE

Taiwo Elizabeth .I.	Female	Measurer
Buhari Kemi	Female	Measurer
Yekeen Nurudeen A.	Male	Interviewer
Yusuf Taibat Oyeronke	Female	Interviewer
Adigun Abiodun Nohimot	Female	Interviewer
Adeniran Shifau Adebukola	Female	Interviewer
Olasupo Taiwo Ibidunni	Female	Interviewer

Appendix C. Estimates of Sampling Errors

The sample of respondents selected in the Multiple Indicator Cluster Survey (MICS) 2016 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 the estimates from all possible samples. The extent of variability is not known exactly, but can be estimated statistically from the survey data.

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

- *Standard error (se)*: Standard error is the square root of the variance of the estimate. For survey indicators that are means, proportions or ratios, the Taylor series linearization method is used for the estimation of standard errors. For more complex statistics, such as fertility and mortality rates, the Jackknife repeated replication method is used for standard error estimation.
- *Coefficient of variation (se/r)* is the ratio of the standard error to the value (r) of the indicator, and is a measure of the relative sampling error.
- *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 based on the same sample size. The *square root of the design effect (deft)* is used to show the efficiency of the sample design in relation to the precision. A *deft* value of 1.0 indicates that the sample design of the survey is as efficient as a simple random sample for a particular indicator, while a *deft* value above 1.0 indicates an increase in the standard error due to the use of a more complex sample design.
- *Confidence limits* are calculated to show the interval which contains the true value of the indicator for the population, with a specified level of confidence. For MICS results 95% confidence intervals are used, which is the standard for this type of survey. The concept of the 95% confidence interval can be understood in this way: if many repeated samples of identical size and design were taken and the confidence interval computed for each sample, then 95% of these intervals would contain the true value of the indicator.

For the calculation of sampling errors from MICS data, programs developed in CSPro Version 5.0, SPSS Version 21 Complex Samples module and CMRJack¹⁵ have 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. Given the use of normalized weights, by comparing the weighted and unweighted counts it is possible to determine whether a particular domain has been under-sampled or over-sampled compared to the average sampling rate. If the weighted count is smaller than the unweighted count, this means that the particular domain had been oversampled. As explained later in the footnote of Table SE.1, there is an exception in the case of indicators 4.1

¹⁵ CMRJack is a software developed by FAFO, an independent and multidisciplinary research foundation. CMRJack produces mortality estimates and standard errors for surveys with complete birth histories or summary birth histories. See http://www.fafon.org/ais/child_mortality/index.html

and 4.3, for which the unweighted count represents the number of sample households, and the weighted counts reflect the total population.

Sampling errors are calculated for indicators of primary interest, for the national level, for urban and rural areas, and for all regions. Three of the selected indicators are based on household members, 12 are based on women, 3 are based on men, and 4 are based on children under 5. 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.10 show the calculated sampling errors for selected domains.

Table SE.1: Indicators selected for sampling error calculations

List of indicators selected for sampling error calculations, and base populations (denominators) for each indicator, Nigeria, 2016-17

MICS5 Indicator	Base Population
Household members	
4.1 Use of improved drinking water sources	All household members ^a
4.3 Use of improved sanitation	All household members ^a
7.4 Primary school net attendance ratio (adjusted)	Children of primary school age
Women	
1.2 Infant mortality rate	Children of interviewed women exposed to the risk of mortality during the first year of life
1.5	Children of interviewed women exposed to the risk of mortality Under five mortality rate during the first five years of life
5.1 Adolescent birth rate	Women years of exposure to childbirth during ages 15-19 years
5.3 Contraceptive prevalence rate	Women age 15-49 years who are currently married or in union
5.4 Unmet need	Women age 15-49 years who are currently married or in union
5.5a Antenatal care coverage (1+ times, skilled provider)	Women age 15-49 years with a live birth in the last 2 years
5.5b Antenatal care coverage (4+ times, any provider)	Women age 15-49 years with a live birth in the last 2 years
5.7 Skilled attendant at delivery	Women age 15-49 years with a live birth in the last 2 years
5.13 Maternal mortality ratio	Women age 15-49 years
7.1 Literacy rate (young women)	Women age 15-24 years
9.1 Knowledge about HIV prevention (young women)	Women age 15-24 years
9.15 Condom use with non-regular partners	Women age 15-24 years who had a non-marital, non-cohabiting partner in the last 12 months
Men	
7.1 Literacy rate (young men)	Men age 15-24 years
9.1 Knowledge about HIV prevention (young men)	Men age 15-24 years
9.15 Condom use with non-regular partners	Men age 15-24 years who had a non-marital, non-cohabiting partner in the last 12 months
Under-5s	
2.1a Underweight prevalence (moderate and severe)	Children under age 5 years
2.1b Underweight prevalence (severe)	Children under age 5 years

3.18	Children under age 5 years who spent the previous night in the Children under age 5 who slept under an ITN household
3.22 Anti-malarial treatment of children under age 5	Children under age 5 years with fever in the last 2 weeks

^a To calculate the weighted results of MICS Indicators 4.1 and 4.3, the household weight is multiplied by the number of household members in each household. Therefore the unweighted base population presented in the SE tables reflect the unweighted number of households, whereas the weighted numbers reflect the household population.

Table SE.2: Sampling errors: Total sampleStandard errors, coefficients of variation, design effects (*deff*), square root of design effects (*deff*), and confidence intervals for selected indicators, Nigeria, 2016-17

	MICS Indicator	MDG Indicator	Value (<i>r</i>)	Standard error (<i>se</i>)	Coefficient of variation (<i>se/r</i>)	Design effect (<i>deff</i>)	Square root of design effect (<i>deff</i>)	Weighted count	Unweighted count	Confidence limits	
										Lower bound <i>r</i> - 2 <i>se</i>	Upper bound <i>r</i> + 2 <i>se</i>
Household members											
Use of improved drinking water sources	4.1	7.8	0.6413	0.0094	0.015	12.923	3.595	182165	33901	0.623	0.660
Use of improved sanitation	4.3	7.9	0.3593	0.0074	0.021	8.100	2.846	182165	33901	0.344	0.374
Primary school net attendance ratio (adjusted)	7.4	2.1	0.6094	0.0098	0.016	12.460	3.530	33647	31135	0.590	0.629
Women											
Infant mortality rate	1.2	4.2	70	2.34	0.03	na	na	na	na	65	75
Under five mortality rate	1.5	4.1	120	3.50	0.03	na	na	na	na	113	127
Adolescent birth rate	5.1	5.4	120	4.1970	0.035	na	na	na	na	111	128
Contraceptive prevalence rate	5.3	5.3	0.1340	0.0038	0.029	3.031	1.741	24373	23891	0.126	0.142
Unmet need	5.4	5.6	0.2773	0.0040	0.014	1.903	1.379	24373	23891	0.269	0.285
Antenatal care coverage (1+ times, skilled provider)	5.5a	5.5	0.6584	0.0098	0.015	4.761	2.182	11547	11204	0.639	0.678
Antenatal care coverage (4+ times, any provider)	5.5b	5.5	0.4910	0.0086	0.018	3.352	1.831	11547	11204	0.474	0.508
Skilled attendant at delivery	5.7	5.2	0.4304	0.0092	0.021	3.858	1.964	11547	11204	0.412	0.449
Literacy rate (young women)	7.1	2.3	0.4508	0.0134	0.030	6.158	2.482	8007	8489	0.424	0.478
Knowledge about HIV prevention (young women)	9.1	6.3	0.2315	0.0081	0.035	3.160	1.778	8007	8489	0.215	0.248
Condom use with non-regular partners	9.15	6.2	0.3892	0.0185	0.048	1.649	1.284	864	1143	0.352	0.426
Men											
Literacy rate (young men)	7.1	2.3	0.7092	0.0126	0.018	4.588	2.142	5887	5968	0.684	0.734
Knowledge about HIV prevention (young men)	9.1	6.3	0.2785	0.0104	0.037	3.212	1.792	5887	5968	0.258	0.299
Condom use with non-regular partners	9.15	6.2	0.6143	0.0182	0.030	1.646	1.283	1004	1172	0.578	0.651
Under-5s											
Underweight prevalence (moderate and severe)	2.1a	1.8	0.3151	0.0057	0.018	4.078	2.020	27400	27452	0.304	0.326
Underweight prevalence (severe)	2.1b	1.8	0.1155	0.0034	0.029	3.064	1.751	27400	27452	0.109	0.122
Children under age 5 who slept under an ITN	3.18	6.7	0.4913	0.0078	0.016	6.800	2.608	27842	27843	0.476	0.507
Anti-malarial treatment of children under age 5	3.22	6.8	0.3678	0.0111	0.030	3.625	1.904	7124	6883	0.346	0.390

na: not applicable

Table SE.3: Sampling errors: Urban

Standard errors, coefficients of variation, design effects (*deff*), square root of design effects (*deft*), and confidence intervals for selected indicators, Nigeria, 2016-17

	MICS Indicator	MDG Indicator	Value (<i>r</i>)	Standard error (<i>se</i>)	Coefficient of variation (<i>se/r</i>)	Design effect (<i>deff</i>)	Square root of design effect (<i>deft</i>)	Weighted count	Unweighted count	Confidence limits	
										Lower bound <i>r</i> - 2 <i>se</i>	Upper bound <i>r</i> + 2 <i>se</i>
Household members											
Use of improved drinking water sources	4.1	7.8	0.8288	0.0115	0.014	10.395	3.224	61430	11104	0.806	0.852
Use of improved sanitation	4.3	7.9	0.4920	0.0125	0.025	6.959	2.638	61430	11104	0.467	0.517
Primary school net attendance ratio (adjusted)	7.4	2.1	0.8004	0.0139	0.017	10.130	3.183	10296	8393	0.773	0.828
Women											
Infant mortality rate	1.2	4.2	53	4.475	0.084	na	na	na	na	44	62
Under five mortality rate	1.5	4.1	78	5.233	0.067	na	na	na	na	68	89
Adolescent birth rate	5.1	5.4	59	7.199	0.122	na	na	na	na	44	73
Contraceptive prevalence rate	5.3	5.3	0.2114	0.009	0.041	2.952	1.718	7507	6592	0.194	0.229
Unmet need	5.4	5.6	0.2745	0.0080	0.029	2.116	1.455	7507	6592	0.259	0.290
Antenatal care coverage (1+ times, skilled provider)	5.5a	5.5	0.7070	0.0139	0.020	2.689	1.640	3426	2900	0.679	0.735
Antenatal care coverage (4+ times, any provider)	5.5b	5.5	0.6713	0.0183	0.027	4.380	2.093	3426	2900	0.635	0.708
Skilled attendant at delivery	5.7	5.2	0.8737	0.0121	0.014	3.842	1.960	3426	2900	0.850	0.898
Literacy rate (young women)	7.1	2.3	0.8398	0.0213	0.025	13.640	3.693	4631	4037	0.797	0.882
Knowledge about HIV prevention (young women)	9.1	6.3	0.3729	0.0125	0.034	2.697	1.642	4631	4037	0.348	0.398
Condom use with non-regular partners	9.15	6.2	0.5599	0.0219	0.039	1.411	1.188	703	723	0.516	0.604
Men											
Literacy rate (young men)	7.1	2.3	0.8888	0.0138	0.016	3.600	1.897	2128	1860	0.861	0.916
Knowledge about HIV prevention (young men)	9.1	6.3	0.3481	0.0202	0.058	3.336	1.827	2128	1860	0.308	0.388
Condom use with non-regular partners	9.15	6.2	0.7011	0.0298	0.043	1.673	1.293	405	395	0.641	0.761
Under-5s											
Underweight prevalence (moderate and severe)	2.1a	1.8	0.2298	0.0103	0.045	4.431	2.105	8392	7348	0.209	0.250
Underweight prevalence (severe)	2.1b	1.8	0.0722	0.0062	0.086	4.218	2.054	8392	7348	0.060	0.085

Children under age 5 who slept under an ITN	3.18	6.7	0.4294	0.0184	0.043	10.250	3.202	8450	7386	0.393	0.466
Anti-malarial treatment of children under age 5	3.22	6.8	0.4389	0.0218	0.050	2.910	1.706	1852	1515	0.395	0.482
<i>na: not applicable</i>											

Table SE.4: Sampling errors: Rural

Standard errors, coefficients of variation, design effects (*deff*), square root of design effects (*deff*), and confidence intervals for selected indicators, Nigeria, 2016-17

	MICS Indicator	MDG Indicator	Value (<i>r</i>)	Standard error (<i>se</i>)	Coefficient of variation (<i>se/r</i>)	Design effect (<i>deff</i>)	Square root of design effect (<i>deff</i>)	Weighted count	Unweighted count	Confidence limits	
										Lower bound <i>r</i> - 2 <i>se</i>	Upper bound <i>r</i> + 2 <i>se</i>
Household members											
Use of improved drinking water sources	4.1	7.8	0.5459	0.0113	0.021	11.844	3.442	120735	22797	0.523	0.569
Use of improved sanitation	4.3	7.9	0.2918	0.0084	0.029	7.697	2.774	120735	22797	0.275	0.308
Primary school net attendance ratio (adjusted)	7.4	2.1	0.5251	0.0117	0.022	12.467	3.531	23351	22742	0.502	0.549
Women											
Infant mortality rate	1.2	4.2	77	2.629	0.034	na	na	na	na	72	82
Under five mortality rate	1.5	4.1	138	4.235	0.031	na	na	na	na	129	146
Adolescent birth rate	5.1	5.4	154	4.896	0.032	na	na	na	na	144	163
Contraceptive prevalence rate	5.3	5.3	0.0996	0.0038	0.038	2.717	1.648	16866	17299	0.092	0.107
Unmet need	5.4	5.6	0.2766	0.0046	0.017	1.804	1.343	16866	17299	0.267	0.286
Antenatal care coverage (1+ times, skilled provider)	5.5a	5.5	0.3999	0.0096	0.024	3.212	1.792	8121	8304	0.381	0.419
Antenatal care coverage (4+ times, any provider)	5.5b	5.5	0.3289	0.0100	0.030	3.727	1.931	8121	8304	0.309	0.349
Skilled attendant at delivery	5.7	5.2	0.5676	0.0113	0.020	4.315	2.077	8121	8304	0.545	0.590
Literacy rate (young women)	7.1	2.3	0.4508	0.0134	0.030	6.158	2.482	8007	8489	0.424	0.478
Knowledge about HIV prevention (young women)	9.1	6.3	0.2315	0.0081	0.035	3.160	1.778	8007	8489	0.215	0.248
Condom use with non-regular partners	9.15	6.2	0.3892	0.0185	0.048	1.649	1.284	864	1143	0.352	0.426
Men											
Literacy rate (young men)	7.1	2.3	0.6075	0.0157	0.026	4.262	2.064	3759	4108	0.576	0.639
Knowledge about HIV prevention (young men)	9.1	6.3	0.2391	0.0115	0.048	2.987	1.728	3759	4108	0.216	0.262
Condom use with non-regular partners	9.15	6.2	0.5556	0.0215	0.039	1.454	1.206	599	777	0.513	0.599

Under-5s											
Underweight prevalence (moderate and severe)	2.1a	1.8	0.3527	0.0067	0.019	3.910	1.977	19008	20104	0.339	0.366
Underweight prevalence (severe)	2.1b	1.8	0.1346	0.0040	0.030	2.760	1.661	19008	20104	0.127	0.143
Children under age 5 who slept under an ITN	3.18	6.7	0.5183	0.0081	0.016	5.389	2.321	19392	20457	0.502	0.534
Anti-malarial treatment of children under age 5	3.22	6.8	0.3428	0.0126	0.037	3.759	1.939	5271	5368	0.318	0.368
<i>na: not applicable</i>											

Table SE.5: Sampling errors: Abia

Standard errors, coefficients of variation, design effects (*deff*), square root of design effects (*deft*), and confidence intervals for selected indicators, Nigeria, 2016-17

	MICS Indicator	MDG Indicator	Value (<i>r</i>)	Standard error (<i>se</i>)	Coefficient of variation (<i>se/r</i>)	Design effect (<i>deff</i>)	Square root of design effect (<i>deft</i>)	Weighted count	Unweighted count	Confidence limits	
										Lower bound <i>r</i> - 2 <i>se</i>	Upper bound <i>r</i> + 2 <i>se</i>
Household members											
Use of improved drinking water sources	4.1	7.8	0.8349	0.0412	0.049	11.051	3.324	1826	899	0.753	0.917
Use of improved sanitation	4.3	7.9	0.5307	0.0340	0.064	4.169	2.042	1826	899	0.463	0.599
Primary school net attendance ratio (adjusted)	7.4	2.1	.9341	.01166	.012	1.105	1.051	269.171	502	0.911	0.957
Women											
Infant mortality rate	1.2	4.2	55	14.349	0.263	na	na		na	26	83
Under five mortality rate	1.5	4.1	83	17.491	0.212	na	na		na	48	118
Adolescent birth rate	5.1	5.4	37	11.581	.312	na	na		na	14	60
Contraceptive prevalence rate	5.3	5.3	0.1661	0.0167	0.100	0.769	0.877	197	385	0.133	0.199
Unmet need	5.4	5.6	0.3302	0.0228	0.069	0.899	0.948	197	385	0.285	0.376
Antenatal care coverage (1+ times, skilled provider)	5.5a	5.5	0.8608	0.0289	0.034	1.361	1.166	99	196	0.803	0.919
Antenatal care coverage (4+ times, any provider)	5.5b	5.5	0.9141	0.0212	0.023	1.119	1.058	99	196	0.872	0.957
Skilled attendant at delivery	5.7	5.2	0.9072	0.0242	0.027	1.357	1.165	99	196	0.859	0.956
Literacy rate (young women)	7.1	2.3	0.9818	0.0092	0.009	1.022	1.011	108	218	0.963	1.000
Knowledge about HIV prevention (young women)	9.1	6.3	0.2314	0.0313	0.135	1.192	1.092	108	218	0.169	0.294
Condom use with non-regular partners	9.15	6.2	0.5352	0.0753	0.141	1.207	1.099	26	54	0.385	0.686
Men											
Literacy rate (young men)	7.1	2.3	0.9419	0.0274	0.029	1.403	1.184	54	103	0.887	0.997

Knowledge about HIV prevention (young men)	9.1	6.3	0.2753	0.0485	0.176	1.202	1.096	54	103	0.178	0.372
Condom use with non-regular partners	9.15	6.2	0.7164	0.0968	0.135	1.244	1.116	15	28	0.523	0.910
Under-5s											
Underweight prevalence (moderate and severe)	2.1a	1.8	0.2015	0.0219	0.109	1.308	1.143	218	441	0.158	0.245
Underweight prevalence (severe)	2.1b	1.8	0.0535	0.0105	0.196	0.953	0.976	218	441	0.033	0.074
Children under age 5 who slept under an ITN	3.18	6.7	0.2280	0.0279	0.122	1.989	1.410	223	451	0.172	0.284
Anti-malarial treatment of children under age 5	3.22	6.8	0.4245	0.0363	0.085	0.797	0.893	72	149	0.352	0.497

na: not applicable

Table SE.6: Sampling errors: Adamawa

Standard errors, coefficients of variation, design effects (deff), square root of design effects (deft), and confidence intervals for selected indicators, Nigeria, 2016-17

	MICS Indicator	MDG Indicator	Value (r)	Standard error (se)	Coefficient of variation (se/r)	Design effect (deff)	Square root of design effect (deft)	Weighted count	Unweighted count	Confidence limits	
										Lower bound r - 2se	Upper bound r + 2se
Household members											
Use of improved drinking water sources	4.1	7.8	0.5389	0.0552	0.102	10.072	3.174	4379	823	0.428	0.649
Use of improved sanitation	4.3	7.9	0.3889	0.0320	0.082	3.538	1.881	4379	823	0.325	0.453
Primary school net attendance ratio (adjusted)	7.4	2.1	0.5773	0.0459	0.079	8.150	2.855	864	947	0.486	0.669
Women											
Infant mortality rate	1.2	4.2	49	11.665	0.239	na	na		na	25	72
Under five mortality rate	1.5	4.1	84	14.579	0.173	na	na		na	55	113
Adolescent birth rate	5.1	5.4	113	13.924	0.123	na	na		na	85	141
Contraceptive prevalence rate	5.3	5.3	0.0910	0.0144	0.158	1.788	1.337	612	716	0.062	0.120
Unmet need	5.4	5.6	0.3535	0.0246	0.070	1.894	1.376	612	716	0.304	0.403
Antenatal care coverage (1+ times, skilled provider)	5.5a	5.5	0.5569	0.0483	0.087	2.940	1.715	264	312	0.460	0.654
Antenatal care coverage (4+ times, any provider)	5.5b	5.5	0.5300	0.0578	0.109	4.177	2.044	264	312	0.414	0.646
Skilled attendant at delivery	5.7	5.2	0.8012	0.0426	0.053	3.540	1.881	264	312	0.716	0.886
Literacy rate (young women)	7.1	2.3	0.5055	0.0488	0.096	3.473	1.864	310	366	0.408	0.603
Knowledge about HIV prevention (young women)	9.1	6.3	0.1745	0.0274	0.157	1.900	1.379	310	366	0.120	0.229
Condom use with non-regular partners	9.15	6.2	0.2526	0.0823	0.326	1.292	1.137	33	37	0.088	0.417

Men											
Literacy rate (young men)	7.1	2.3	0.7428	0.0544	0.073	2.989	1.729	158	194	0.000	0.000
Knowledge about HIV prevention (young men)	9.1	6.3	0.5544	0.0683	0.123	3.642	1.908	158	194	0.000	0.000
Condom use with non-regular partners	9.15	6.2	0.0000	0.0000				27	32	0.000	0.000
Under-5s											
Underweight prevalence (moderate and severe)	2.1a	1.8	0.2366	0.0179	0.076	1.294	1.138	614	727	0.201	0.273
Underweight prevalence (severe)	2.1b	1.8	0.0693	0.0101	0.146	1.149	1.072	614	727	0.049	0.089
Children under age 5 who slept under an ITN	3.18	6.7	0.4802	0.0321	0.067	3.027	1.740	618	734	0.416	0.544
Anti-malarial treatment of children under age 5	3.22	6.8	0.3449	0.0446	0.129	1.444	1.202	138	165	0.256	0.434
<i>na: not applicable</i>											

Table SE.7: Sampling errors: Akwa Ibom

Standard errors, coefficients of variation, design effects (deff), square root of design effects (deft), and confidence intervals for selected indicators, Nigeria, 2016-17

	MICS Indicator	MDG Indicator	Value (r)	Standard error (se)	Coefficient of variation (se/r)	Design effect (deff)	Square root of design effect (deft)	Weighted count	Unweighted count	Confidence limits	
										Lower bound r - 2se	Upper bound r + 2se
Household members											
Use of improved drinking water sources	4.1	7.8	0.8029	0.0458	0.057	12.569	3.545	3893	950	0.711	0.895
Use of improved sanitation	4.3	7.9	0.4633	0.0274	0.059	2.867	1.693	3893	950	0.408	0.518
Primary school net attendance ratio (adjusted)	7.4	2.1	0.8387	0.0200	0.024	1.862	1.364	550	630	0.799	0.879
Women											
Infant mortality rate	1.2	4.2	42	8.048	0.190	na	na	na	na	26	58
Under five mortality rate	1.5	4.1	73	12.049	0.166	na	na	na	na	48	97
Adolescent birth rate	5.1	5.4	67	11.697	0.175	na	na	na	na	43	90
Contraceptive prevalence rate	5.3	5.3	0.1570	0.0180	0.115	1.361	1.167	457	557	0.121	0.193
Unmet need	5.4	5.6	0.4045	0.0196	0.049	0.890	0.943	457	557	0.365	0.444
Antenatal care coverage (1+ times, skilled provider)	5.5a	5.5	0.6668	0.0419	0.063	2.228	1.493	228	283	0.583	0.751
Antenatal care coverage (4+ times, any provider)	5.5b	5.5	0.3996	0.0437	0.109	2.246	1.499	228	283	0.312	0.487
Skilled attendant at delivery	5.7	5.2	0.8045	0.0360	0.045	2.326	1.525	228	283	0.733	0.877
Literacy rate (young women)	7.1	2.3	0.9464	0.0120	0.013	1.120	1.058	325	392	0.922	0.971
Knowledge about HIV prevention (young women)	9.1	6.3	0.3026	0.0327	0.108	1.981	1.407	325	392	0.237	0.368

Condom use with non-regular partners	9.15	6.2	0.4968	0.0534	0.107	1.494	1.222	110	132	0.390	0.604
Men											
Literacy rate (young men)	7.1	2.3	0.9266	0.0196	0.021	0.953	0.976	138	169	0.887	0.966
Knowledge about HIV prevention (young men)	9.1	6.3	0.3025	0.0419	0.139	1.401	1.184	138	169	0.219	0.386
Condom use with non-regular partners	9.15	6.2	0.4863	0.0760	0.156	1.157	1.075	43	51	0.334	0.638
Under-5s											
Underweight prevalence (moderate and severe)	2.1a	1.8	0.2275	0.0161	0.071	1.091	1.044	592	743	0.195	0.260
Underweight prevalence (severe)	2.1b	1.8	0.0647	0.0107	0.166	1.408	1.186	592	743	0.043	0.086
Children under age 5 who slept under an ITN	3.18	6.7	0.3233	0.0228	0.071	1.778	1.333	593	747	0.278	0.369
Anti-malarial treatment of children under age 5	3.22	6.8	0.2997	0.0419	0.140	1.709	1.307	168	205	0.216	0.384
<i>na: not applicable</i>											

Table SE.8: Sampling errors: Anambra

Standard errors, coefficients of variation, design effects (deff), square root of design effects (deft), and confidence intervals for selected indicators, Nigeria, 2016-17

	MICS Indicator	MDG Indicator	Value (r)	Standard error (se)	Coefficient of variation (se/r)	Design effect (deff)	Square root of design effect (deft)	Weighted count	Unweighted count	Confidence limits	
										Lower bound r - 2se	Upper bound r + 2se
Household members											
Use of improved drinking water sources	4.1	7.8	0.8445	0.0429	0.051	12.592	3.549	2965	898	0.759	0.930
Use of improved sanitation	4.3	7.9	0.5669	0.0380	0.067	5.265	2.295	2965	898	0.491	0.643
Primary school net attendance ratio (adjusted)	7.4	2.1	0.9338	0.0126	0.013	1.435	1.198	469	564	0.909	0.959
Women											
Infant mortality rate	1.2	4.2	39	9.565	0.247	na	na		na	20	58
Under five mortality rate	1.5	4.1	53	10.769	0.202	na	na		na	32	75
Adolescent birth rate	5.1	5.4	40	10.217	0.258	na	na		na	19	60
Contraceptive prevalence rate	5.3	5.3	0.2824	0.0287	0.102	1.664	1.290	322	410	0.225	0.340
Unmet need	5.4	5.6	0.2200	0.0203	0.092	0.979	0.990	322	410	0.179	0.261
Antenatal care coverage (1+ times, skilled provider)	5.5a	5.5	0.8996	0.0221	0.025	0.944	0.972	140	176	0.855	0.944
Antenatal care coverage (4+ times, any provider)	5.5b	5.5	0.9716	0.0168	0.017	1.799	1.341	140	176	0.938	1.000
Skilled attendant at delivery	5.7	5.2	0.9833	0.0085	0.009	0.777	0.881	140	176	0.966	1.000

Literacy rate (young women)	7.1	2.3	0.9810	0.0079	0.008	0.989	0.994	228	294	0.965	0.997
Knowledge about HIV prevention (young women)	9.1	6.3	0.2970	0.0288	0.097	1.166	1.080	228	294	0.239	0.355
Condom use with non-regular partners	9.15	6.2	0.6602	0.0705	0.107	1.907	1.381	69	87	0.519	0.801
Men											
Literacy rate (young men)	7.1	2.3	0.9511	0.0189	0.020	0.949	0.974	92	124	0.913	0.989
Knowledge about HIV prevention (young men)	9.1	6.3	0.2516	0.0380	0.151	0.943	0.971	92	124	0.176	0.328
Condom use with non-regular partners	9.15	6.2	0.6415	0.0927	0.144	1.232	1.110	27	34	0.456	0.827
Under-5s											
Underweight prevalence (moderate and severe)	2.1a	1.8	0.1233	0.0169	0.137	1.313	1.146	377	499	0.090	0.157
Underweight prevalence (severe)	2.1b	1.8	0.0298	0.0068	0.228	0.796	0.892	377	499	0.016	0.043
Children under age 5 who slept under an ITN	3.18	6.7	0.2724	0.0253	0.093	1.601	1.265	378	498	0.222	0.323
Anti-malarial treatment of children under age 5	3.22	6.8	0.5220	0.0661	0.127	1.348	1.161	59	78	0.390	0.654

na: not applicable

Table SE.9: Sampling errors: Bauchi

Standard errors, coefficients of variation, design effects (deff), square root of design effects (deft), and confidence intervals for selected indicators, Nigeria, 2016-17

	MICS Indicator	MDG Indicator	Value (r)	Standard error (se)	Coefficient of variation (se/r)	Design effect (deff)	Square root of design effect (deft)	Weighted count	Unweighted count	Confidence limits	
										Lower bound r - 2se	Upper bound r + 2se
Household members											
Use of improved drinking water sources	4.1	7.8	0.6022	0.0591	0.098	13.876	3.725	8746	952	0.484	0.720
Use of improved sanitation	4.3	7.9	0.3784	0.0440	0.116	7.817	2.796	8746	952	0.290	0.466
Primary school net attendance ratio (adjusted)	7.4	2.1	0.3860	0.0495	0.128	12.961	3.600	1820	1255	0.287	0.485
Women											
Infant mortality rate	1.2	4.2	81	9.475	0.117	na	na	na	na	62	100
Under five mortality rate	1.5	4.1	161	17.776	0.111	na	na	na	na	125	196
Adolescent birth rate	5.1	5.4	186	16.816	0.090	na	na	na	na	152	220
Contraceptive prevalence rate	5.3	5.3	0.1189	0.0145	0.122	1.989	1.410	1330	990	0.090	0.148
Unmet need	5.4	5.6	0.2708	0.0151	0.056	1.137	1.066	1330	990	0.241	0.301
Antenatal care coverage (1+ times, skilled provider)	5.5a	5.5	0.3297	0.0359	0.109	2.693	1.641	618	464	0.258	0.401
Antenatal care coverage (4+ times, any provider)	5.5b	5.5	0.2211	0.0350	0.158	3.301	1.817	618	464	0.151	0.291
Skilled attendant at delivery	5.7	5.2	0.5977	0.0470	0.079	4.256	2.063	618	464	0.504	0.692

Literacy rate (young women)	7.1	2.3	0.2556	0.0528	0.206	6.582	2.566	607	451	0.150	0.361
Knowledge about HIV prevention (young women)	9.1	6.3	0.3522	0.0448	0.127	3.963	1.991	607	451	0.263	0.442
Condom use with non-regular partners	9.15	6.2	0.1263	0.1384	1.096	1.215	1.102	8	8	0.000	0.403
Men											
Literacy rate (young men)	7.1	2.3	0.3981	0.0656	0.165	4.058	2.014	286	227	0.267	0.529
Knowledge about HIV prevention (young men)	9.1	6.3	0.2568	0.0474	0.185	2.665	1.632	286	227	0.162	0.352
Condom use with non-regular partners	9.15	6.2	0.5714	0.0921	0.161	0.138	0.372	3	5	0.387	0.756
Under-5s											
Underweight prevalence (moderate and severe)	2.1a	1.8	0.4852	0.0264	0.054	3.232	1.798	1502	1156	0.432	0.538
Underweight prevalence (severe)	2.1b	1.8	0.1531	0.0177	0.116	2.796	1.672	1502	1156	0.118	0.189
Children under age 5 who slept under an ITN	3.18	6.7	0.5787	0.0338	0.058	5.445	2.333	1520	1163	0.511	0.646
Anti-malarial treatment of children under age 5	3.22	6.8	0.3218	0.0300	0.093	1.516	1.231	453	368	0.262	0.382
<i>na: not applicable</i>											

Table SE.10: Sampling errors: Bayelsa

Standard errors, coefficients of variation, design effects (deff), square root of design effects (deft), and confidence intervals for selected indicators, Nigeria, 2016-17

	MICS Indicator	MDG Indicator	Value (r)	Standard error (se)	Coefficient of variation (se/r)	Design effect (deff)	Square root of design effect (deft)	Weighted count	Unweighted count	Confidence limits	
										Lower bound r - 2se	Upper bound r + 2se
Household members											
Use of improved drinking water sources	4.1	7.8	0.6059	0.0536	0.088	10.550	3.248	1279	878	0.499	0.713
Use of improved sanitation	4.3	7.9	0.2091	0.0277	0.132	4.062	2.015	1279	878	0.154	0.264
Primary school net attendance ratio (adjusted)	7.4	2.1	0.8493	0.0194	0.023	1.854	1.362	219	632	0.811	0.888
Women											
Infant mortality rate	1.2	4.2	57	10.909	0.193	na	na	na	na	35	78
Under five mortality rate	1.5	4.1	95	14.797	0.155	na	na	na	na	66	125
Adolescent birth rate	5.1	5.4	78	14.789	0.191	na	na	na	na	48	107
Contraceptive prevalence rate	5.3	5.3	0.1460	0.0211	0.145	1.514	1.231	143	425	0.104	0.188
Unmet need	5.4	5.6	0.3724	0.0249	0.067	1.127	1.061	143	425	0.323	0.422
Antenatal care coverage (1+ times, skilled provider)	5.5a	5.5	0.6292	0.0467	0.074	2.022	1.422	73	217	0.536	0.723
Antenatal care coverage (4+ times, any provider)	5.5b	5.5	0.3758	0.0440	0.117	1.779	1.334	73	217	0.288	0.464

Skilled attendant at delivery	5.7	5.2	0.6219	0.0480	0.077	2.116	1.455	73	217	0.526	0.718
Literacy rate (young women)	7.1	2.3	0.9583	0.0162	0.017	1.755	1.325	90	268	0.926	0.991
Knowledge about HIV prevention (young women)	9.1	6.3	0.4241	0.0392	0.092	1.678	1.295	90	268	0.346	0.502
Condom use with non-regular partners	9.15	6.2	0.3225	0.0482	0.149	1.244	1.115	39	118	0.226	0.419
Men											
Literacy rate (young men)	7.1	2.3	0.9834	0.0119	0.012	1.053	1.026	43	122	0.226	1.000
Knowledge about HIV prevention (young men)	9.1	6.3	0.2568	0.0539	0.210	1.841	1.357	43	122	0.226	0.365
Condom use with non-regular partners	9.15	6.2	0.5081	0.0734	0.144	1.098	1.048	18	52	0.361	0.655
Under-5s											
Underweight prevalence (moderate and severe)	2.1a	1.8	0.0996	0.0145	0.145	1.254	1.120	174	539	0.071	0.129
Underweight prevalence (severe)	2.1b	1.8	0.0226	0.0075	0.334	1.382	1.175	174	539	0.008	0.038
Children under age 5 who slept under an ITN	3.18	6.7	0.3857	0.0436	0.113	4.342	2.084	174	543	0.299	0.473
Anti-malarial treatment of children under age 5	3.22	6.8	0.4713	0.0595	0.126	1.391	1.179	32	99	0.352	0.590
<i>na: not applicable</i>											

Table SE.11: Sampling errors: Benue

Standard errors, coefficients of variation, design effects (deff), square root of design effects (deft), and confidence intervals for selected indicators, Nigeria, 2016-17

	MICS Indicator	MDG Indicator	Value (r)	Standard error (se)	Coefficient of variation (se/r)	Design effect (deff)	Square root of design effect (deft)	Weighted count	Unweighted count	Confidence limits	
										Lower bound r - 2se	Upper bound r + 2se
Household members											
Use of improved drinking water sources	4.1	7.8	0.6432	0.0526	0.082	10.712	3.273	5012	889	0.538	0.748
Use of improved sanitation	4.3	7.9	0.2215	0.0327	0.148	5.516	2.349	5012	889	0.156	0.287
Primary school net attendance ratio (adjusted)	7.4	2.1	0.7117	0.0287	0.040	3.123	1.767	873	780	0.654	0.769
Women											
Infant mortality rate	1.2	4.2	70	15.382	0.220	na	na	na	na	39	101
Under five mortality rate	1.5	4.1	82	15.019	0.182	na	na	na	na	52	112
Adolescent birth rate	5.1	5.4	79	14.618	0.186	na	na	na	na	49	108
Contraceptive prevalence rate	5.3	5.3	0.1814	0.0193	0.107	1.481	1.217	650	589	0.143	0.220
Unmet need	5.4	5.6	0.2361	0.0192	0.081	1.199	1.095	650	589	0.198	0.274

Antenatal care coverage (1+ times, skilled provider)	5.5a	5.5	0.4816	0.0480	0.100	2.261	1.504	271	246	0.386	0.578
Antenatal care coverage (4+ times, any provider)	5.5b	5.5	0.6282	0.0644	0.103	4.353	2.086	271	246	0.499	0.757
Skilled attendant at delivery	5.7	5.2	0.6745	0.0602	0.089	4.042	2.011	271	246	0.554	0.795
Literacy rate (young women)	7.1	2.3	0.6989	0.0376	0.054	2.249	1.500	368	335	0.624	0.774
Knowledge about HIV prevention (young women)	9.1	6.3	0.3862	0.0392	0.101	2.165	1.471	368	335	0.308	0.465
Condom use with non-regular partners	9.15	6.2	0.5367	0.0601	0.112	1.453	1.205	103	101	0.416	0.657
Men											
Literacy rate (young men)	7.1	2.3	0.9054	0.0251	0.028	1.154	1.074	184	158	0.855	0.956
Knowledge about HIV prevention (young men)	9.1	6.3	0.2818	0.0457	0.162	1.619	1.272	184	158	0.190	0.373
Condom use with non-regular partners	9.15	6.2	0.6164	0.1216	0.197	1.126	1.061	22	19	0.373	0.860
Under-5s											
Underweight prevalence (moderate and severe)	2.1a	1.8	0.1513	0.0151	0.100	1.164	1.079	678	653	0.121	0.182
Underweight prevalence (severe)	2.1b	1.8	0.0492	0.0085	0.172	1.004	1.002	678	653	0.032	0.066
Children under age 5 who slept under an ITN	3.18	6.7	0.7384	0.0312	0.042	3.341	1.828	692	663	0.676	0.801
Anti-malarial treatment of children under age 5	3.22	6.8	0.3779	0.0730	0.193	1.155	1.075	54	52	0.232	0.524
<i>na: not applicable</i>											

Table SE.12: Sampling errors: Borno

Standard errors, coefficients of variation, design effects (deff), square root of design effects (deft), and confidence intervals for selected indicators., Nigeria, 2016-17

	MICS Indicator	MDG Indicator	Value (r)	Standard error (se)	Coefficient of variation (se/r)	Design effect (deff)	Square root of design effect (deft)	Weighted count	Unweighted count	Confidence limits	
										Lower bound r - 2se	Upper bound r + 2se
Household members											
Use of improved drinking water sources	4.1	7.8	0.4696	0.0566	0.121	3.705	1.925	11063	289	0.356	0.583
Use of improved sanitation	4.3	7.9	0.5234	0.0448	0.086	2.314	1.521	11063	289	0.434	0.613
Primary school net attendance ratio (adjusted)	7.4	2.1	0.5300	0.0687	0.130	8.135	2.852	2318	430	0.393	0.668
Women											
Infant mortality rate	1.2	4.2	42	15.684	0.375	na	na		na	11	73
Under five mortality rate	1.5	4.1	82	18.759	0.229	na	na		na	44	120
Adolescent birth rate	5.1	5.4	128	30.175	0.236	na	na		na	67	188
Contraceptive prevalence rate	5.3	5.3	0.0578	0.0189	0.327	1.753	1.324	1240	268	0.020	0.096

Unmet need	5.4	5.6	0.2585	0.0390	0.151	2.121	1.456	1240	268	0.180	0.337
Antenatal care coverage (1+ times, skilled provider)	5.5a	5.5	0.6187	0.0327	0.053	0.628	0.793	692	140	0.553	0.684
Antenatal care coverage (4+ times, any provider)	5.5b	5.5	0.4878	0.0672	0.138	2.510	1.584	692	140	0.353	0.622
Skilled attendant at delivery	5.7	5.2	0.8909	0.0327	0.037	1.526	1.235	692	140	0.826	0.956
Literacy rate (young women)	7.1	2.3	0.5644	0.0982	0.174	6.039	2.458	783	155	0.368	0.761
Knowledge about HIV prevention (young women)	9.1	6.3	0.3944	0.0423	0.107	1.153	1.074	783	155	0.310	0.479
Condom use with non-regular partners	9.15	6.2	0.0000	0.0000				16	4	0.000	0.000
Men											
Literacy rate (young men)	7.1	2.3	0.6026	0.1321	0.219	4.958	2.227	294	69	0.338	0.867
Knowledge about HIV prevention (young men)	9.1	6.3	0.6247	0.1201	0.192	4.181	2.045	294	69	0.385	0.865
Condom use with non-regular partners	9.15	6.2						0	0	0.000	0.000
Under-5s											
Underweight prevalence (moderate and severe)	2.1a	1.8	0.3636	0.0444	0.122	3.211	1.792	1817	378	0.275	0.452
Underweight prevalence (severe)	2.1b	1.8	0.1217	0.0231	0.190	1.885	1.373	1817	378	0.075	0.168
Children under age 5 who slept under an ITN	3.18	6.7	0.6328	0.0682	0.108	7.607	2.758	1829	381	0.496	0.769
Anti-malarial treatment of children under age 5	3.22	6.8	0.6302	0.0742	0.118	2.527	1.590	549	108	0.482	0.779
<i>na: not applicable</i>											

Table SE.13: Sampling errors: Cross River

Standard errors, coefficients of variation, design effects (deff), square root of design effects (deft), and confidence intervals for selected indicators,, Nigeria, 2016-17

	MICS Indicator	MDG Indicator	Value (r)	Standard error (se)	Coefficient of variation (se/r)	Design effect (deff)	Square root of design effect (deft)	Weighted count	Unweighted count	Confidence limits	
										Lower bound r - 2se	Upper bound r + 2se
Household members											
Use of improved drinking water sources	4.1	7.8	0.5391	0.0694	0.129	16.678	4.084	3233	861	0.400	0.678
Use of improved sanitation	4.3	7.9	0.2547	0.0391	0.153	6.922	2.631	3233	861	0.177	0.333
Primary school net attendance ratio (adjusted)	7.4	2.1	0.8475	0.0169	0.020	1.412	1.188	580	640	0.814	0.881
Women											
Infant mortality rate	1.2	4.2	38	11.752	0.310	na	na		na	14	61
Under five mortality rate	1.5	4.1	52	13.457	0.257	na	na		na	25	79
Adolescent birth rate	5.1	5.4	68	17.639	0.259	na	na		na	33	103
Contraceptive prevalence rate	5.3	5.3	0.2302	0.0280	0.122	1.910	1.382	391	432	0.174	0.286

Unmet need	5.4	5.6	0.2624	0.0307	0.117	2.099	1.449	391	432	0.201	0.324
Antenatal care coverage (1+ times, skilled provider)	5.5a	5.5	0.6710	0.0407	0.061	1.421	1.192	162	190	0.590	0.753
Antenatal care coverage (4+ times, any provider)	5.5b	5.5	0.6462	0.0478	0.074	1.891	1.375	162	190	0.551	0.742
Skilled attendant at delivery	5.7	5.2	0.8097	0.0407	0.050	2.035	1.426	162	190	0.728	0.891
Literacy rate (young women)	7.1	2.3	0.9430	0.0170	0.018	1.401	1.184	248	261	0.909	0.977
Knowledge about HIV prevention (young women)	9.1	6.3	0.3788	0.0377	0.100	1.574	1.254	248	261	0.303	0.454
Condom use with non-regular partners	9.15	6.2	0.4730	0.0723	0.153	1.447	1.203	72	70	0.328	0.618
Men											
Literacy rate (young men)	7.1	2.3	0.9498	0.0203	0.021	1.007	1.003	102	118	0.909	0.990
Knowledge about HIV prevention (young men)	9.1	6.3	0.4454	0.0636	0.143	1.918	1.385	102	118	0.318	0.573
Condom use with non-regular partners	9.15	6.2	0.4692	0.0835	0.178	1.513	1.230	45	55	0.302	0.636
Under-5s											
Underweight prevalence (moderate and severe)	2.1a	1.8	0.1390	0.0202	0.145	1.635	1.279	386	483	0.099	0.179
Underweight prevalence (severe)	2.1b	1.8	0.0281	0.0097	0.344	1.645	1.283	386	483	0.009	0.047
Children under age 5 who slept under an ITN	3.18	6.7	0.5871	0.0384	0.065	2.958	1.720	390	487	0.510	0.664
Anti-malarial treatment of children under age 5	3.22	6.8	0.4675	0.0515	0.110	1.522	1.234	114	144	0.365	0.571
<i>na: not applicable</i>											

Table SE.14: Sampling errors: Delta

Standard errors, coefficients of variation, design effects (deff), square root of design effects (deft), and confidence intervals for selected indicators,, Nigeria, 2016-17

	MICS Indicator	MDG Indicator	Value (<i>r</i>)	Standard error (<i>se</i>)	Coefficient of variation (<i>se/r</i>)	Design effect (<i>deff</i>)	Square root of design effect (<i>deft</i>)	Weighted count	Unweighted count	Confidence limits	
										Lower bound <i>r</i> - 2 <i>se</i>	Upper bound <i>r</i> + 2 <i>se</i>
Household members											
Use of improved drinking water sources	4.1	7.8	0.7942	0.0479	0.060	12.023	3.467	2921	859	0.698	0.890
Use of improved sanitation	4.3	7.9	0.3814	0.0364	0.095	4.819	2.195	2921	859	0.309	0.454
Primary school net attendance ratio (adjusted)	7.4	2.1	0.8532	0.0184	0.022	1.399	1.183	434	519	0.816	0.890
Women											
Infant mortality rate	1.2	4.2	48	11.059	0.232	na	na	na	na	26	70
Under five mortality rate	1.5	4.1	63	14.175	0.226	na	na	na	na	34	91
Adolescent birth rate	5.1	5.4	57	11.727	0.207	na	na	na	na	33	80
Contraceptive prevalence rate	5.3	5.3	0.1093	0.0171	0.157	1.290	1.136	354	428	0.075	0.144
Unmet need	5.4	5.6	0.4476	0.0267	0.060	1.229	1.108	354	428	0.394	0.501

Antenatal care coverage (1+ times, skilled provider)	5.5a	5.5	0.6452	0.0401	0.062	1.486	1.219	173	213	0.565	0.725
Antenatal care coverage (4+ times, any provider)	5.5b	5.5	0.7089	0.0440	0.062	1.988	1.410	173	213	0.621	0.797
Skilled attendant at delivery	5.7	5.2	0.7739	0.0479	0.062	2.775	1.666	173	213	0.678	0.870
Literacy rate (young women)	7.1	2.3	0.9102	0.0185	0.020	0.950	0.975	202	229	0.873	0.947
Knowledge about HIV prevention (young women)	9.1	6.3	0.2528	0.0283	0.112	0.965	0.982	202	229	0.196	0.309
Condom use with non-regular partners	9.15	6.2	0.2799	0.0452	0.162	0.629	0.793	56	63	0.189	0.370
Men											
Literacy rate (young men)	7.1	2.3	0.9530	0.0218	0.023	1.185	1.088	99	113	0.910	0.997
Knowledge about HIV prevention (young men)	9.1	6.3	0.2823	0.0585	0.207	1.893	1.376	99	113	0.165	0.399
Condom use with non-regular partners	9.15	6.2	0.5745	0.0979	0.170	1.842	1.357	44	48	0.379	0.770
Under-5s											
Underweight prevalence (moderate and severe)	2.1a	1.8	0.1117	0.0167	0.149	1.483	1.218	406	529	0.078	0.145
Underweight prevalence (severe)	2.1b	1.8	0.0223	0.0062	0.276	0.920	0.959	406	529	0.010	0.035
Children under age 5 who slept under an ITN	3.18	6.7	0.2745	0.0336	0.123	3.002	1.732	406	529	0.207	0.342
Anti-malarial treatment of children under age 5	3.22	6.8	0.4738	0.0533	0.113	1.289	1.135	84	114	0.367	0.580
<i>na: not applicable</i>											

Table SE.15: Sampling errors: Ebonyi

Standard errors, coefficients of variation, design effects (deff), square root of design effects (deft), and confidence intervals for selected indicators, Nigeria, 2016-17

	MICS Indicator	MDG Indicator	Value (r)	Standard error (se)	Coefficient of variation (se/r)	Design effect (deff)	Square root of design effect (deft)	Weighted count	Unweighted count	Confidence limits	
										Lower bound r - 2se	Upper bound r + 2se
Household members											
Use of improved drinking water sources	4.1	7.8	0.7637	0.0310	0.041	4.948	2.224	2248	932	0.702	0.826
Use of improved sanitation	4.3	7.9	0.1212	0.0193	0.159	3.245	1.801	2248	932	0.083	0.160
Primary school net attendance ratio (adjusted)	7.4	2.1	0.7865	0.0257	0.033	2.709	1.646	389	691	0.735	0.838
Women											
Infant mortality rate	1.2	4.2	47	10.934	0.231	na	na		na	26	69
Under five mortality rate	1.5	4.1	62	13.129	0.213	na	na		na	35	88

Adolescent birth rate	5.1	5.4	53	12.822	0.243	na	na		na	27	78
Contraceptive prevalence rate	5.3	5.3	0.0297	0.0081	0.271	0.916	0.957	212	408	0.014	0.046
Unmet need	5.4	5.6	0.2982	0.0289	0.097	1.619	1.272	212	408	0.240	0.356
Antenatal care coverage (1+ times, skilled provider)	5.5a	5.5	0.5774	0.0411	0.071	1.507	1.227	111	219	0.495	0.660
Antenatal care coverage (4+ times, any provider)	5.5b	5.5	0.7260	0.0434	0.060	2.067	1.438	111	219	0.639	0.813
Skilled attendant at delivery	5.7	5.2	0.7503	0.0347	0.046	1.401	1.184	111	219	0.681	0.820
Literacy rate (young women)	7.1	2.3	0.8341	0.0255	0.031	1.513	1.230	167	322	0.783	0.885
Knowledge about HIV prevention (young women)	9.1	6.3	0.1282	0.0230	0.180	1.525	1.235	167	322	0.082	0.174
Condom use with non-regular partners	9.15	6.2	0.2753	0.0688	0.250	1.376	1.173	30	59	0.138	0.413
Men											
Literacy rate (young men)	7.1	2.3	0.8187	0.0386	0.047	1.134	1.065	57	114	0.741	0.896
Knowledge about HIV prevention (young men)	9.1	6.3	0.3782	0.0691	0.183	2.297	1.516	57	114	0.240	0.516
Condom use with non-regular partners	9.15	6.2	0.7678	0.0885	0.115	1.361	1.167	16	32	0.591	0.945
Under-5s											
Underweight prevalence (moderate and severe)	2.1a	1.8	0.1764	0.0196	0.111	1.414	1.189	267	534	0.137	0.216
Underweight prevalence (severe)	2.1b	1.8	0.0669	0.0122	0.183	1.279	1.131	267	534	0.042	0.091
Children under age 5 who slept under an ITN	3.18	6.7	0.5712	0.0307	0.054	2.064	1.437	269	536	0.510	0.633
Anti-malarial treatment of children under age 5	3.22	6.8	0.3693	0.0793	0.215	1.889	1.375	35	71	0.211	0.528

na: not applicable

Table SE.16: Sampling errors: Edo

Standard errors, coefficients of variation, design effects (deff), square root of design effects (deft), and confidence intervals for selected indicators, Nigeria, 2016-17

	MICS Indicator	MDG Indicator	Value (r)	Standard error (se)	Coefficient of variation (se/r)	Design effect (deff)	Square root of design effect (deft)	Weighted count	Unweighted count	Confidence limits	
										Lower bound r - 2se	Upper bound r + 2se
Household members											
Use of improved drinking water sources	4.1	7.8	0.8793	0.0348	0.040	10.835	3.292	2339	948	0.810	0.949
Use of improved sanitation	4.3	7.9	0.5161	0.0347	0.067	4.553	2.134	2339	948	0.447	0.585
Primary school net attendance ratio (adjusted)	7.4	2.1	0.9144	0.0130	0.014	1.088	1.043	355	507	0.888	0.940
Women											
Infant mortality rate	1.2	4.2		4.417	0.591	na	na		na	-1	16
Under five mortality rate	1.5	4.1		5.922	0.438	na	na		na	2	25

Adolescent birth rate	5.1	5.4	42	12.049	0.290	na	na		na	17	66
Contraceptive prevalence rate	5.3	5.3	0.1575	0.0207	0.132	1.451	1.205	296	449	0.116	0.199
Unmet need	5.4	5.6	0.3904	0.0214	0.055	0.859	0.927	296	449	0.348	0.433
Antenatal care coverage (1+ times, skilled provider)	5.5a	5.5	0.8365	0.0341	0.041	1.306	1.143	101	155	0.768	0.905
Antenatal care coverage (4+ times, any provider)	5.5b	5.5	0.9282	0.0267	0.029	1.647	1.283	101	155	0.875	0.982
Skilled attendant at delivery	5.7	5.2	0.9153	0.0285	0.031	1.617	1.272	101	155	0.858	0.972
Literacy rate (young women)	7.1	2.3	0.9493	0.0145	0.015	1.117	1.057	163	256	0.920	0.978
Knowledge about HIV prevention (young women)	9.1	6.3	0.5014	0.0562	0.112	3.220	1.794	163	256	0.389	0.614
Condom use with non-regular partners	9.15	6.2	0.5928	0.0816	0.138	1.793	1.339	40	66	0.430	0.756
Men											
Literacy rate (young men)	7.1	2.3	0.9834	0.0101	0.010	0.743	0.862	67	119	0.963	1.000
Knowledge about HIV prevention (young men)	9.1	6.3	0.2686	0.0606	0.226	2.207	1.486	67	119	0.147	0.390
Condom use with non-regular partners	9.15	6.2	0.5850	0.1293	0.221	1.654	1.286	13	25	0.326	0.844
Under-5s											
Underweight prevalence (moderate and severe)	2.1a	1.8	0.1016	0.0164	0.161	1.284	1.133	280	439	0.069	0.134
Underweight prevalence (severe)	2.1b	1.8	0.0213	0.0072	0.338	1.086	1.042	280	439	0.007	0.036
Children under age 5 who slept under an ITN	3.18	6.7	0.2097	0.0340	0.162	3.075	1.754	280	441	0.142	0.278
Anti-malarial treatment of children under age 5	3.22	6.8	0.6997	0.0765	0.109	1.030	1.015	26	38	0.547	0.853
<i>na: not applicable</i>											

Table SE.17: Sampling errors: Ekiti

Standard errors, coefficients of variation, design effects (deff), square root of design effects (deft), and confidence intervals for selected indicators, Nigeria, 2016-17

	MICS Indicator	MDG Indicator	Value (r)	Standard error (se)	Coefficient of variation (se/r)	Design effect (deff)	Square root of design effect (deft)	Weighted count	Unweighted count	Confidence limits	
										Lower bound r - 2se	Upper bound r + 2se
Household members											
Use of improved drinking water sources	4.1	7.8	0.8436	0.0322	0.038	6.627	2.574	1128	842	0.779	0.908
Use of improved sanitation	4.3	7.9	0.2555	0.0294	0.115	3.820	1.955	1128	842	0.197	0.314
Primary school net attendance ratio (adjusted)	7.4	2.1	0.8931	0.0180	0.020	1.354	1.164	166	402	0.857	0.929

						na					
Women											
Infant mortality rate	1.2	4.2	59	17.434	0.295		na		na	24	94
Under five mortality rate	1.5	4.1	74	17.721	0.241	na	na		na	38	109
Adolescent birth rate	5.1	5.4	60	16.045	0.265	na	na		na	28	93
Contraceptive prevalence rate	5.3	5.3	0.3142	0.0287	0.091	1.261	1.123	143	331	0.257	0.372
Unmet need	5.4	5.6	0.2611	0.0280	0.107	1.338	1.157	143	331	0.205	0.317
Antenatal care coverage (1+ times, skilled provider)	5.5a	5.5	0.8607	0.0331	0.038	1.135	1.065	54	125	0.794	0.927
Antenatal care coverage (4+ times, any provider)	5.5b	5.5	0.7825	0.0423	0.054	1.302	1.141	54	125	0.698	0.867
Skilled attendant at delivery	5.7	5.2	0.8789	0.0348	0.040	1.408	1.187	54	125	0.809	0.948
Literacy rate (young women)	7.1	2.3	0.9674	0.0140	0.015	0.913	0.956	67	147	0.939	0.996
Knowledge about HIV prevention (young women)	9.1	6.3	0.2855	0.0361	0.126	0.933	0.966	67	147	0.213	0.358
Condom use with non-regular partners	9.15	6.2	0.4101	0.0943	0.230	1.139	1.067	14	32	0.222	0.599
Men											
Literacy rate (young men)	7.1	2.3	0.9900	0.0100	0.010	0.707	0.841	31	71	0.970	1.000
Knowledge about HIV prevention (young men)	9.1	6.3	0.1735	0.0468	0.270	1.069	1.034	31	71	0.080	0.267
Condom use with non-regular partners	9.15	6.2	0.8301	0.0670	0.081	0.667	0.817	9	22	0.696	0.964
Under-5s											
Underweight prevalence (moderate and severe)	2.1a	1.8	0.1162	0.0177	0.153	0.932	0.965	122	305	0.081	0.152
Underweight prevalence (severe)	2.1b	1.8	0.0309	0.0102	0.330	1.060	1.030	122	305	0.010	0.051
Children under age 5 who slept under an ITN	3.18	6.7	0.2084	0.0275	0.132	1.398	1.182	123	306	0.153	0.263
Anti-malarial treatment of children under age 5	3.22	6.8	0.3525	0.0970	0.275	1.690	1.300	17	42	0.159	0.547
<i>na: not applicable</i>											

Table SE.18: Sampling errors: Enugu

Standard errors, coefficients of variation, design effects (deff), square root of design effects (deft), and confidence intervals for selected indicators, Nigeria, 2016-17

	MICS Indicator	MDG Indicator	Value (r)	Standard error (se)	Coefficient of variation (se/r)	Design effect (deff)	Square root of design effect (deft)	Weighted count	Unweighted count	Confidence limits	
										Lower bound r - 2se	Upper bound r + 2se
Household members											
Use of improved drinking water sources	4.1	7.8	0.5924	0.0518	0.088	9.870	3.142	2399	888	0.489	0.696
Use of improved sanitation	4.3	7.9	0.3287	0.0321	0.098	4.148	2.037	2399	888	0.264	0.393

Primary school net attendance ratio (adjusted)	7.4	2.1	0.8791	0.0199	0.023	1.763	1.328	338	473	0.839	0.919
Women						na					
Infant mortality rate	1.2	4.2		6.160	0.328		na		na	6	31
Under five mortality rate	1.5	4.1		8.371	0.263	na	na		na	15	49
Adolescent birth rate	5.1	5.4	23	8.484	0.365	na	na		na	6	40
Contraceptive prevalence rate	5.3	5.3	0.2212	0.0263	0.119	1.390	1.179	232	348	0.169	0.274
Unmet need	5.4	5.6	0.2511	0.0270	0.108	1.349	1.161	232	348	0.197	0.305
Antenatal care coverage (1+ times, skilled provider)	5.5a	5.5	0.7672	0.0346	0.045	1.059	1.029	105	159	0.698	0.836
Antenatal care coverage (4+ times, any provider)	5.5b	5.5	0.9225	0.0244	0.026	1.315	1.147	105	159	0.874	0.971
Skilled attendant at delivery	5.7	5.2	0.9301	0.0199	0.021	0.962	0.981	105	159	0.890	0.970
Literacy rate (young women)	7.1	2.3	0.9785	0.0091	0.009	1.112	1.055	198	282	0.960	0.997
Knowledge about HIV prevention (young women)	9.1	6.3	0.2472	0.0342	0.139	1.770	1.331	198	282	0.179	0.316
Condom use with non-regular partners	9.15	6.2	0.5756	0.0733	0.127	1.385	1.177	45	64	0.429	0.722
Men											
Literacy rate (young men)	7.1	2.3	0.9679	0.0204	0.021	1.594	1.262	83	120	0.927	1.000
Knowledge about HIV prevention (young men)	9.1	6.3	0.5054	0.0633	0.125	1.910	1.382	83	120	0.379	0.632
Condom use with non-regular partners	9.15	6.2	0.8134	0.0574	0.071	1.129	1.063	37	53	0.699	0.928
Under-5s											
Underweight prevalence (moderate and severe)	2.1a	1.8	0.0572	0.0160	0.280	1.947	1.395	262	409	0.025	0.089
Underweight prevalence (severe)	2.1b	1.8	0.0052	0.0031	0.597	0.766	0.875	262	409	0.000	0.012
Children under age 5 who slept under an ITN	3.18	6.7	0.2666	0.0310	0.116	2.030	1.425	266	413	0.204	0.329
Anti-malarial treatment of children under age 5	3.22	6.8	0.5169	0.0534	0.103	0.720	0.848	47	64	0.410	0.624
<i>na: not applicable</i>											

Table SE.19: Sampling errors: Gombe

Standard errors, coefficients of variation, design effects (deff), square root of design effects (deft), and confidence intervals for selected indicators, Nigeria, 2016-17

	MICS Indicator	MDG Indicator	Value (<i>r</i>)	Standard error (<i>se</i>)	Coefficient of variation (<i>se/r</i>)	Design effect (<i>deff</i>)	Square root of design effect (<i>deft</i>)	Weighted count	Unweighted count	Confidence limits	
										Lower bound $r - 2se$	Upper bound $r + 2se$
Household members											
Use of improved drinking water sources	4.1	7.8	0.3919	0.0524	0.134	10.248	3.201	3291	890	0.287	0.497

Use of improved sanitation	4.3	7.9	0.4291	0.0336	0.078	4.109	2.027	3291	890	0.362	0.496
Primary school net attendance ratio (adjusted)	7.4	2.1	0.3794	0.0498	0.131	11.014	3.319	645	1048	0.280	0.479
Women						na					
Infant mortality rate	1.2	4.2	90	11.095	0.123		na		na	68	113
Under five mortality rate	1.5	4.1	162	14.990	0.093	na	na		na	132	192
Adolescent birth rate	5.1	5.4	181	18.817	0.104	na	na		na	143	219
Contraceptive prevalence rate	5.3	5.3	0.0660	0.0128	0.194	1.978	1.406	440	747	0.040	0.092
Unmet need	5.4	5.6	0.2784	0.0175	0.063	1.142	1.068	440	747	0.243	0.313
Antenatal care coverage (1+ times, skilled provider)	5.5a	5.5	0.3406	0.0368	0.108	2.450	1.565	236	408	0.267	0.414
Antenatal care coverage (4+ times, any provider)	5.5b	5.5	0.3909	0.0417	0.107	2.974	1.725	236	408	0.307	0.474
Skilled attendant at delivery	5.7	5.2	0.6749	0.0413	0.061	3.168	1.780	236	408	0.592	0.758
Literacy rate (young women)	7.1	2.3	0.3747	0.0608	0.162	6.414	2.533	232	408	0.253	0.496
Knowledge about HIV prevention (young women)	9.1	6.3	0.1168	0.0235	0.201	2.171	1.474	232	408	0.070	0.164
Condom use with non-regular partners	9.15	6.2	0.3432	0.0805	0.235	0.575	0.758	9	21	0.182	0.504
Men											
Literacy rate (young men)	7.1	2.3	0.4746	0.0618	0.130	3.279	1.811	118	215	0.351	0.598
Knowledge about HIV prevention (young men)	9.1	6.3	0.2864	0.0479	0.167	2.398	1.549	118	215	0.191	0.382
Condom use with non-regular partners	9.15	6.2	0.6000	0.1284	0.214	1.030	1.015	7	16	0.343	0.857
Under-5s											
Underweight prevalence (moderate and severe)	2.1a	1.8	0.4124	0.0319	0.077	3.933	1.983	528	937	0.349	0.476
Underweight prevalence (severe)	2.1b	1.8	0.1765	0.0187	0.106	2.260	1.503	528	937	0.139	0.214
Children under age 5 who slept under an ITN	3.18	6.7	0.6182	0.0349	0.057	4.881	2.209	532	945	0.548	0.688
Anti-malarial treatment of children under age 5	3.22	6.8	0.2961	0.0323	0.109	1.480	1.217	167262902	296	0.231	0.361
<i>na: not applicable</i>											

Table SE.20: Sampling errors: Imo

Standard errors, coefficients of variation, design effects (deff), square root of design effects (deft), and confidence intervals for selected indicators, Nigeria, 2016-17

	MICS Indicator	MDG Indicator	Value (r)	Standard error (se)	Coefficient of variation (se/r)	Design effect (deff)	Square root of design effect (deft)	Weighted count	Unweighted count	Confidence limits	
										Lower bound r - 2se	Upper bound r + 2se

Household members											
Use of improved drinking water sources	4.1	7.8	0.9219	0.0237	0.026	7.038	2.653	3270	907	0.875	0.969
Use of improved sanitation	4.3	7.9	0.5784	0.0277	0.048	2.845	1.687	3270	907	0.523	0.634
Primary school net attendance ratio (adjusted)	7.4	2.1	0.8960	0.0224	0.025	2.689	1.640	451	499	0.851	0.941
Women											
Infant mortality rate	1.2	4.2	66	12.762	0.194	na	na	na	na	40	91
Under five mortality rate	1.5	4.1	96	16.358	0.170	na	na	na	na	64	129
Adolescent birth rate	5.1	5.4	36	12.346	0.344	na	na	na	na	11	61
Contraceptive prevalence rate	5.3	5.3	0.3579	0.0353	0.099	2.200	1.483	345	406	0.287	0.429
Unmet need	5.4	5.6	0.1897	0.0230	0.121	1.390	1.179	345	406	0.144	0.236
Antenatal care coverage (1+ times, skilled provider)	5.5a	5.5	0.8191	0.0337	0.041	1.400	1.183	164	184	0.752	0.886
Antenatal care coverage (4+ times, any provider)	5.5b	5.5	0.9595	0.0147	0.015	1.014	1.007	164	184	0.930	0.989
Skilled attendant at delivery	5.7	5.2	0.9566	0.0150	0.016	0.988	0.994	164	184	0.927	0.987
Literacy rate (young women)	7.1	2.3	0.9821	0.0086	0.009	1.044	1.022	220	248	0.965	0.999
Knowledge about HIV prevention (young women)	9.1	6.3	0.3184	0.0349	0.110	1.387	1.178	220	248	0.249	0.388
Condom use with non-regular partners	9.15	6.2	0.7593	0.0529	0.070	0.918	0.958	60	61	0.654	0.865
Men											
Literacy rate (young men)	7.1	2.3	0.9890	0.0083	0.008	0.789	0.888	98	126	0.000	1.000
Knowledge about HIV prevention (young men)	9.1	6.3	0.2773	0.0524	0.189	1.716	1.310	98	126	0.000	0.382
Condom use with non-regular partners	9.15	6.2	0.7592	0.0822	0.108	1.588	1.260	37	44	0.595	0.924
Under-5s											
Underweight prevalence (moderate and severe)	2.1a	1.8	0.1426	0.0244	0.171	2.252	1.501	398	462	0.094	0.191
Underweight prevalence (severe)	2.1b	1.8	0.0369	0.0093	0.251	1.118	1.058	398	462	0.018	0.056
Children under age 5 who slept under an ITN	3.18	6.7	0.1787	0.0407	0.228	5.300	2.302	404	470	0.097	0.260
Anti-malarial treatment of children under age 5	3.22	6.8	0.3085	0.0548	0.178	1.776	1.333	112	127	0.199	0.418
<i>na: not applicable</i>											

Table SE.21: Sampling errors: Jigawa

Standard errors, coefficients of variation, design effects (deff), square root of design effects (deft), and confidence intervals for selected indicators, Nigeria, 2016-17

	MICS	MDG	Value	Coefficient of	Confidence limits
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	Indicator	Indicator	(r)	Standard error (se)	variation (se/r)	Design effect (deff)	Square root of design effect (deff)	Weighted count	Unweighted count	Lower bound r - 2se	Upper bound r + 2se	
Household members												
	Use of improved drinking water sources	4.1	7.8	0.7941	0.0405	0.051	9.334	3.055	8019	931	0.713	0.875
	Use of improved sanitation	4.3	7.9	0.3282	0.0425	0.130	7.634	2.763	8019	931	0.243	0.413
	Primary school net attendance ratio (adjusted)	7.4	2.1	0.3860	0.0512	0.133	15.752	3.969	1776	1427	0.284	0.488
Women												
	Infant mortality rate	1.2	4.2	83	15.380	0.186	na	na	na	na	52	113
	Under five mortality rate	1.5	4.1	192	22.028	0.114	na	na	na	na	148	236
	Adolescent birth rate	5.1	5.4	186	23.407	0.126	na	na	na	na	140	233
	Contraceptive prevalence rate	5.3	5.3	0.0132	0.0076	0.571	4.137	2.034	1110	948	0.000	0.028
	Unmet need	5.4	5.6	0.2647	0.0213	0.081	2.216	1.488	1110	948	0.222	0.307
	Antenatal care coverage (1+ times, skilled provider)	5.5a	5.5	0.3633	0.0474	0.131	4.943	2.223	595	509	0.268	0.458
	Antenatal care coverage (4+ times, any provider)	5.5b	5.5	0.2122	0.0297	0.140	2.677	1.636	595	509	0.153	0.272
	Skilled attendant at delivery	5.7	5.2	0.5100	0.0513	0.101	5.353	2.314	595	509	0.407	0.613
	Literacy rate (young women)	7.1	2.3	0.2478	0.0597	0.241	7.809	2.794	481	409	0.128	0.367
	Knowledge about HIV prevention (young women)	9.1	6.3	0.0854	0.0194	0.228	1.972	1.404	481	409	0.047	0.124
	Condom use with non-regular partners	9.15	6.2	0.0000	0.0000				35	26	0.000	0.000
Men												
	Literacy rate (young men)	7.1	2.3	0.3227	0.0660	0.204	3.844	1.961	214	194	0.191	0.455
	Knowledge about HIV prevention (young men)	9.1	6.3	0.1262	0.0337	0.267	1.992	1.411	214	194	0.059	0.194
	Condom use with non-regular partners	9.15	6.2	1.0000	0.0000	0.000			7	2	1.000	1.000
Under-5s												
	Underweight prevalence (moderate and severe)	2.1a	1.8	0.5041	0.0219	0.043	2.316	1.522	1366	1205	0.460	0.548
	Underweight prevalence (severe)	2.1b	1.8	0.2222	0.0143	0.064	1.429	1.195	1366	1205	0.194	0.251
	Children under age 5 who slept under an ITN	3.18	6.7	0.7443	0.0288	0.039	5.302	2.303	1389	1220	0.687	0.802
	Anti-malarial treatment of children under age 5	3.22	6.8	0.1675	0.0374	0.223	3.745	1.935	438	375	0.093	0.242
<i>na: not applicable</i>												

Table SE.22: Sampling errors: Kaduna

Standard errors, coefficients of variation, design effects (deff), square root of design effects (deft), and confidence intervals for selected indicators, Nigeria, 2016-17

	MICS Indicator	MDG Indicator	Value (r)	Standard error (se)	Coefficient of variation (se/r)	Design effect (deff)	Square root of design effect (deft)	Weighted count	Unweighted count	Confidence limits	
										Lower bound r - 2se	Upper bound r + 2se
Household members											
Use of improved drinking water sources	4.1	7.8	0.6114	0.0374	0.061	5.287	2.299	10418	897	0.537	0.686
Use of improved sanitation	4.3	7.9	0.2942	0.0305	0.104	4.012	2.003	10418	897	0.233	0.355
Primary school net attendance ratio (adjusted)	7.4	2.1	0.6650	0.0475	0.071	10.936	3.307	1976	1081	0.570	0.760
Women											
Infant mortality rate	1.2	4.2	66	8.557	0.130	na	na	na	na	48	83
Under five mortality rate	1.5	4.1	82	10.579	0.129	na	na	na	na	61	103
Adolescent birth rate	5.1	5.4	134	21.172	0.158	na	na	na	na	91	176
Contraceptive prevalence rate	5.3	5.3	0.2410	0.0263	0.109	3.104	1.762	1475	822	0.188	0.294
Unmet need	5.4	5.6	0.2202	0.0158	0.072	1.196	1.094	1475	822	0.189	0.252
Antenatal care coverage (1+ times, skilled provider)	5.5a	5.5	0.4383	0.0512	0.117	3.998	1.999	663	376	0.336	0.541
Antenatal care coverage (4+ times, any provider)	5.5b	5.5	0.4708	0.0530	0.113	4.228	2.056	663	376	0.365	0.577
Skilled attendant at delivery	5.7	5.2	0.7610	0.0516	0.068	5.481	2.341	663	376	0.658	0.864
Literacy rate (young women)	7.1	2.3	0.5439	0.0668	0.123	8.484	2.913	859	472	0.410	0.678
Knowledge about HIV prevention (young women)	9.1	6.3	0.5284	0.0445	0.084	3.747	1.936	859	472	0.439	0.617
Condom use with non-regular partners	9.15	6.2	0.4875	0.1104	0.226	1.952	1.397	64	41	0.267	0.708
Men											
Literacy rate (young men)	7.1	2.3	0.6524	0.0591	0.091	3.124	1.767	361	204	0.534	0.771
Knowledge about HIV prevention (young men)	9.1	6.3	0.1007	0.0348	0.346	2.723	1.650	361	204	0.031	0.170
Condom use with non-regular partners	9.15	6.2	0.6588	0.1336	0.203	1.905	1.380	35	25	0.392	0.926
Under-5s											
Underweight prevalence (moderate and severe)	2.1a	1.8	0.3399	0.0342	0.101	4.814	2.194	1585	924	0.271	0.408
Underweight prevalence (severe)	2.1b	1.8	0.1285	0.0172	0.134	2.439	1.562	1585	924	0.094	0.163
Children under age 5 who slept under an ITN	3.18	6.7	0.4435	0.0372	0.084	5.201	2.281	1597	928	0.369	0.518
Anti-malarial treatment of children under age 5	3.22	6.8	0.5671	0.0374	0.066	1.251	1.118	383	221	0.492	0.642

na: not applicable

Table SE.23: Sampling errors: Kano

Standard errors, coefficients of variation, design effects (deff), square root of design effects (deft), and confidence intervals for selected indicators, Nigeria, 2016-17

	MICS Indicator	MDG Indicator	Value (r)	Standard error (se)	Coefficient of variation (se/r)	Design effect (deff)	Square root of design effect (deft)	Weighted count	Unweighted count	Confidence limits	
										Lower bound r - 2se	Upper bound r + 2se
Household members											
Use of improved drinking water sources	4.1	7.8	0.5792	0.0298	0.051	6.778	2.604	13560	1867	0.520	0.639
Use of improved sanitation	4.3	7.9	0.5509	0.0264	0.048	5.253	2.292	13560	1867	0.498	0.604
Primary school net attendance ratio (adjusted)	7.4	2.1	0.5484	0.0291	0.053	9.257	3.042	2726	2701	0.490	0.607
Women											
Infant mortality rate	1.2	4.2	112	6.963	0.062	na	na		na	98	126
Under five mortality rate	1.5	4.1	203	11.930	0.059	na	na		na	179	227
Adolescent birth rate	5.1	5.4	169	14.533	0.086	na	na		na	140	198
Contraceptive prevalence rate	5.3	5.3	0.0634	0.0094	0.148	2.966	1.722	1862	1999	0.045	0.082
Unmet need	5.4	5.6	0.3078	0.0137	0.044	1.751	1.323	1862	1999	0.280	0.335
Antenatal care coverage (1+ times, skilled provider)	5.5a	5.5	0.4469	0.0242	0.054	2.650	1.628	1038	1119	0.398	0.495
Antenatal care coverage (4+ times, any provider)	5.5b	5.5	0.1976	0.0226	0.115	3.610	1.900	1038	1119	0.152	0.243
Skilled attendant at delivery	5.7	5.2	0.6510	0.0266	0.041	3.473	1.864	1038	1119	0.598	0.704
Literacy rate (young women)	7.1	2.3	0.4611	0.0455	0.099	8.375	2.894	971	1005	0.370	0.552
Knowledge about HIV prevention (young women)	9.1	6.3	0.1552	0.0173	0.111	2.285	1.512	971	1005	0.121	0.190
Condom use with non-regular partners	9.15	6.2	0.5517	0.4946	0.897	0.989	0.995	3	2	0.000	1.000
Men											
Literacy rate (young men)	7.1	2.3	0.7253	0.0379	0.052	3.416	1.848	452	475	0.649	0.801
Knowledge about HIV prevention (young men)	9.1	6.3	0.2335	0.0264	0.113	1.842	1.357	452	475	0.181	0.286
Condom use with non-regular partners	9.15	6.2	0.8032	0.0596	0.074	1.099	1.048	50	50	0.684	0.922
Under-5s											
Underweight prevalence (moderate and severe)	2.1a	1.8	0.4033	0.0162	0.040	2.748	1.658	2280	2510	0.371	0.436
Underweight prevalence (severe)	2.1b	1.8	0.1612	0.0116	0.072	2.508	1.584	2280	2510	0.138	0.185
Children under age 5 who slept under an ITN	3.18	6.7	0.6178	0.0181	0.029	3.543	1.882	2310	2542	0.581	0.654
Anti-malarial treatment of children under age 5	3.22	6.8	0.3899	0.0232	0.060	2.049	1.431	823	904	0.343	0.436

na: not applicable

Table SE.24: Sampling errors: Katsina

Standard errors, coefficients of variation, design effects (deff), square root of design effects (deft), and confidence intervals for selected indicators, Nigeria, 2016-17

	MICS Indicator	MDG Indicator	Value (r)	Standard error (se)	Coefficient of variation (se/r)	Design effect (deff)	Square root of design effect (deft)	Weighted count	Unweighted count	Confidence limits	
										Lower bound r - 2se	Upper bound r + 2se
Household members											
Use of improved drinking water sources	4.1	7.8	0.6076	0.0487	0.080	9.444	3.073	10941	949	0.510	0.705
Use of improved sanitation	4.3	7.9	0.2822	0.0318	0.113	4.723	2.173	10941	949	0.219	0.346
Primary school net attendance ratio (adjusted)	7.4	2.1	0.5678	0.0460	0.081	10.722	3.274	2193	1243	0.476	0.660
Women											
Infant mortality rate	1.2	4.2	68	7.709	0.114	na	na	na	na	52	83
Under five mortality rate	1.5	4.1	135	12.117	0.090	na	na	na	na	111	159
Adolescent birth rate	5.1	5.4	218	20.822	0.095	na	na	na	na	177	260
Contraceptive prevalence rate	5.3	5.3	0.0633	0.0138	0.218	3.222	1.795	1671	1001	0.036	0.091
Unmet need	5.4	5.6	0.2953	0.0189	0.064	1.719	1.311	1671	1001	0.257	0.333
Antenatal care coverage (1+ times, skilled provider)	5.5a	5.5	0.3342	0.0363	0.109	3.255	1.804	916	550	0.262	0.407
Antenatal care coverage (4+ times, any provider)	5.5b	5.5	0.2079	0.0293	0.141	2.865	1.693	916	550	0.149	0.267
Skilled attendant at delivery	5.7	5.2	0.4512	0.0412	0.091	3.764	1.940	916	550	0.369	0.534
Literacy rate (young women)	7.1	2.3	0.3259	0.0530	0.163	5.595	2.365	729	438	0.220	0.432
Knowledge about HIV prevention (young women)	9.1	6.3	0.1213	0.0229	0.188	2.143	1.464	729	438	0.076	0.167
Condom use with non-regular partners	9.15	6.2	0.1071	0.1320	1.232	0.728	0.853	9	5	0.000	0.371
Men											
Literacy rate (young men)	7.1	2.3	0.6264	0.0747	0.119	3.956	1.989	263	167	0.477	0.776
Knowledge about HIV prevention (young men)	9.1	6.3	0.3650	0.0676	0.185	3.276	1.810	263	167	0.230	0.500
Condom use with non-regular partners	9.15	6.2	0.1449	0.1490	1.029	0.897	0.947	9	6	0.000	0.443
Under-5s											
Underweight prevalence (moderate and severe)	2.1a	1.8	0.4639	0.0225	0.048	2.531	1.591	2051	1248	0.419	0.509
Underweight prevalence (severe)	2.1b	1.8	0.1851	0.0143	0.077	1.694	1.302	2051	1248	0.156	0.214
Children under age 5 who slept under an ITN	3.18	6.7	0.5868	0.0314	0.053	5.062	2.250	2051	1247	0.524	0.650
Anti-malarial treatment of children under age 5	3.22	6.8	0.2453	0.0310	0.126	1.796	1.340	560	347	0.183	0.307

na: not applicable

Table SE.25: Sampling errors: Kebbi

Standard errors, coefficients of variation, design effects (deff), square root of design effects (deft), and confidence intervals for selected indicators, Nigeria, 2016-17

	MICS Indicator	MDG Indicator	Value (r)	Standard error (se)	Coefficient of variation (se/r)	Design effect (deff)	Square root of design effect (deft)	Weighted count	Unweighted count	Confidence limits	
										Lower bound r - 2se	Upper bound r + 2se
Household members											
Use of improved drinking water sources	4.1	7.8	0.5535	0.0415	0.075	6.411	2.532	5391	920	0.470	0.637
Use of improved sanitation	4.3	7.9	0.3054	0.0381	0.125	6.286	2.507	5391	920	0.229	0.382
Primary school net attendance ratio (adjusted)	7.4	2.1	0.3446	0.0420	0.122	9.646	3.106	1108	1237	0.261	0.429
Women											
Infant mortality rate	1.2	4.2	111	11.104	0.100	na	na	na	na	89	134
Under five mortality rate	1.5	4.1	174	13.012	0.075	na	na	na	na	148	200
Adolescent birth rate	5.1	5.4	157	20.253	0.129	na	na	na	na	117	198
Contraceptive prevalence rate	5.3	5.3	0.0634	0.0123	0.194	2.303	1.518	764	904	0.039	0.088
Unmet need	5.4	5.6	0.2960	0.0191	0.065	1.583	1.258	764	904	0.258	0.334
Antenatal care coverage (1+ times, skilled provider)	5.5a	5.5	0.2086	0.0314	0.150	2.733	1.653	398	459	0.146	0.271
Antenatal care coverage (4+ times, any provider)	5.5b	5.5	0.1787	0.0301	0.168	2.828	1.682	398	459	0.119	0.239
Skilled attendant at delivery	5.7	5.2	0.4536	0.0430	0.095	3.421	1.850	398	459	0.368	0.540
Literacy rate (young women)	7.1	2.3	0.3086	0.0537	0.174	5.796	2.407	361	430	0.201	0.416
Knowledge about HIV prevention (young women)	9.1	6.3	0.0301	0.0089	0.295	1.160	1.077	361	430	0.012	0.048
Condom use with non-regular partners	9.15	6.2	0.0611	0.0644	1.052	1.154	1.074	12	17	0.000	0.190
Men											
Literacy rate (young men)	7.1	2.3	0.4177	0.0595	0.142	3.285	1.812	180	227	0.299	0.537
Knowledge about HIV prevention (young men)	9.1	6.3	0.0437	0.0140	0.320	1.057	1.028	180	227	0.016	0.072
Condom use with non-regular partners	9.15	6.2	0.4000	0.1675	0.419	1.052	1.026	9	10	0.065	0.735
Under-5s											
Underweight prevalence (moderate and severe)	2.1a	1.8	0.4488	0.0182	0.041	1.464	1.210	916	1097	0.412	0.485
Underweight prevalence (severe)	2.1b	1.8	0.1840	0.0152	0.082	1.678	1.295	916	1097	0.154	0.214
Children under age 5 who slept under an ITN	3.18	6.7	0.4451	0.0313	0.070	4.400	2.098	925	1109	0.382	0.508

Anti-malarial treatment of children under age 5	3.22	6.8	0.3093	0.0339	0.110	1.868	1.367	290	348	0.241	0.377
<i>na: not applicable</i>											

Table SE.26: Sampling errors: Kogi

Standard errors, coefficients of variation, design effects (deff), square root of design effects (deft), and confidence intervals for selected indicators, Nigeria, 2016-17

	MICS Indicator	MDG Indicator	Value (r)	Standard error (se)	Coefficient of variation (se/r)	Design effect (deff)	Square root of design effect (deft)	Weighted count	Unweighted count	Confidence limits	
										Lower bound r - 2se	Upper bound r + 2se
Household members											
Use of improved drinking water sources	4.1	7.8	0.7024	0.0501	0.071	10.909	3.303	3152	910	0.602	0.803
Use of improved sanitation	4.3	7.9	0.2166	0.0273	0.126	4.000	2.000	3152	910	0.162	0.271
Primary school net attendance ratio (adjusted)	7.4	2.1	0.8674	0.0201	0.023	2.622	1.619	542	748	0.827	0.908
Women											
Infant mortality rate	1.2	4.2	49	11.072	0.225	na	na		na	27	71
Under five mortality rate	1.5	4.1	75	14.437	0.192	na	na		na	46	104
Adolescent birth rate	5.1	5.4	36	9.251	0.255	na	na		na	18	55
Contraceptive prevalence rate	5.3	5.3	0.0672	0.0121	0.180	1.183	1.087	357	508	0.043	0.091
Unmet need	5.4	5.6	0.3347	0.0260	0.078	1.536	1.239	357	508	0.283	0.387
Antenatal care coverage (1+ times, skilled provider)	5.5a	5.5	0.5701	0.0469	0.082	1.681	1.297	133	188	0.476	0.664
Antenatal care coverage (4+ times, any provider)	5.5b	5.5	0.7839	0.0399	0.051	1.755	1.325	133	188	0.704	0.864
Skilled attendant at delivery	5.7	5.2	0.8041	0.0368	0.046	1.607	1.268	133	188	0.731	0.878
Literacy rate (young women)	7.1	2.3	0.8632	0.0236	0.027	1.709	1.307	249	363	0.816	0.910
Knowledge about HIV prevention (young women)	9.1	6.3	0.0851	0.0152	0.179	1.079	1.039	249	363	0.055	0.116
Condom use with non-regular partners	9.15	6.2	0.3214	0.0674	0.210	2.350	1.533	76	114	0.187	0.456
Men											
Literacy rate (young men)	7.1	2.3	0.9242	0.0233	0.025	1.354	1.163	126	176	0.878	0.971
Knowledge about HIV prevention (young men)	9.1	6.3	0.0742	0.0169	0.228	0.727	0.853	126	176	0.040	0.108
Condom use with non-regular partners	9.15	6.2	0.5328	0.0724	0.136	1.326	1.152	48	64	0.388	0.678
Under-5s											
Underweight prevalence (moderate and severe)	2.1a	1.8	0.1542	0.0184	0.119	1.413	1.189	367	547	0.117	0.191
Underweight prevalence (severe)	2.1b	1.8	0.0485	0.0085	0.176	0.863	0.929	367	547	0.031	0.066

Children under age 5 who slept under an ITN	3.18	6.7	0.2927	0.0274	0.094	1.975	1.405	367	546	0.238	0.347
Anti-malarial treatment of children under age 5	3.22	6.8	0.3731	0.0442	0.118	1.119	1.058	88	135	0.285	0.461
<i>na: not applicable</i>											

Table SE.27: Sampling errors: Kwara

Standard errors, coefficients of variation, design effects (deff), square root of design effects (deft), and confidence intervals for selected indicators, Nigeria, 2016-17

	MICS Indicator	MDG Indicator	Value (r)	Standard error (se)	Coefficient of variation (se/r)	Design effect (deff)	Square root of design effect (deft)	Weighted count	Unweighted count	Confidence limits	
										Lower bound r - 2se	Upper bound r + 2se
Household members											
Use of improved drinking water sources	4.1	7.8	0.8579	0.0396	0.046	11.187	3.345	2709	872	0.779	0.937
Use of improved sanitation	4.3	7.9	0.2250	0.0372	0.165	6.903	2.627	2709	872	0.151	0.299
Primary school net attendance ratio (adjusted)	7.4	2.1	0.8610	0.0277	0.032	3.959	1.990	447	619	0.806	0.916
Women											
						na	na		na		
Infant mortality rate	1.2	4.2	40	11.472	0.290					17	62
Under five mortality rate	1.5	4.1	45	11.670	0.259	na	na		na	22	68
Adolescent birth rate	5.1	5.4	70	19.747	0.281	na	na		na	31	110
Contraceptive prevalence rate	5.3	5.3	0.2707	0.0344	0.127	3.019	1.738	357	505	0.202	0.339
Unmet need	5.4	5.6	0.1907	0.0190	0.100	1.185	1.088	357	505	0.153	0.229
Antenatal care coverage (1+ times, skilled provider)	5.5a	5.5	0.6663	0.0481	0.072	1.728	1.315	115	167	0.570	0.763
Antenatal care coverage (4+ times, any provider)	5.5b	5.5	0.6320	0.0659	0.104	3.100	1.761	115	167	0.500	0.764
Skilled attendant at delivery	5.7	5.2	0.7481	0.0511	0.068	2.302	1.517	115	167	0.646	0.850
Literacy rate (young women)	7.1	2.3	0.7346	0.0542	0.074	3.165	1.779	155	211	0.626	0.843
Knowledge about HIV prevention (young women)	9.1	6.3	0.2896	0.0359	0.124	1.315	1.147	155	211	0.218	0.361
Condom use with non-regular partners	9.15	6.2	0.7995	0.0765	0.096	1.314	1.147	28	37	0.646	0.952
Men											
Literacy rate (young men)	7.1	2.3	0.8096	0.0487	0.060	2.203	1.484	93	144	0.712	0.907
Knowledge about HIV prevention (young men)	9.1	6.3	0.3368	0.0605	0.180	2.345	1.531	93	144	0.216	0.458
Condom use with non-regular partners	9.15	6.2	0.7940	0.0983	0.124	1.948	1.396	23	34	0.598	0.991
Under-5s											
Underweight prevalence (moderate and severe)	2.1a	1.8	0.2230	0.0242	0.108	1.720	1.312	351	512	0.175	0.271

Underweight prevalence (severe)	2.1b	1.8	0.0707	0.0130	0.183	1.307	1.143	351	512	0.045	0.097
Children under age 5 who slept under an ITN	3.18	6.7	0.1272	0.0214	0.169	2.151	1.466	358	520	0.084	0.170
Anti-malarial treatment of children under age 5	3.22	6.8	0.6060	0.0923	0.152	1.320	1.149	26	38	0.421	0.791
<i>na: not applicable</i>											

Table SE.28: Sampling errors: Lagos

Standard errors, coefficients of variation, design effects (deff), square root of design effects (deft), and confidence intervals for selected indicators, Nigeria, 2016-17

	MICS Indicator	MDG Indicator	Value (r)	Standard error (se)	Coefficient of variation (se/r)	Design effect (deff)	Square root of design effect (deft)	Weighted count	Unweighted count	Confidence limits	
										Lower bound r - 2se	Upper bound r + 2se
Household members											
Use of improved drinking water sources	4.1	7.8	0.9358	0.0153	0.016	6.557	2.561	7576	1681	0.905	0.966
Use of improved sanitation	4.3	7.9	0.4403	0.0304	0.069	6.302	2.510	7576	1681	0.379	0.501
Primary school net attendance ratio (adjusted)	7.4	2.1	0.9568	0.0081	0.008	1.406	1.186	1053	894	0.941	0.973
Women											
Infant mortality rate	1.2	4.2	45	7.305	0.162	na	na	na	na	30	60
Under five mortality rate	1.5	4.1	50	7.563	0.150	na	na	na	na	35	65
Adolescent birth rate	5.1	5.4	21	8.810	0.413	na	na	na	na	4	39
Contraceptive prevalence rate	5.3	5.3	0.2264	0.0215	0.095	2.488	1.577	1097	945	0.183	0.269
Unmet need	5.4	5.6	0.2959	0.0174	0.059	1.379	1.174	1097	945	0.261	0.331
Antenatal care coverage (1+ times, skilled provider)	5.5a	5.5	0.9419	0.0136	0.014	1.229	1.108	429	364	0.915	0.969
Antenatal care coverage (4+ times, any provider)	5.5b	5.5	0.8693	0.0177	0.020	0.998	0.999	429	364	0.834	0.905
Skilled attendant at delivery	5.7	5.2	0.9224	0.0143	0.016	1.037	1.018	429	364	0.894	0.951
Literacy rate (young women)	7.1	2.3	0.9314	0.0155	0.017	1.548	1.244	488	415	0.901	0.962
Knowledge about HIV prevention (young women)	9.1	6.3	0.5524	0.0328	0.059	1.804	1.343	488	415	0.487	0.618
Condom use with non-regular partners	9.15	6.2	0.6486	0.0510	0.079	1.162	1.078	132	103	0.547	0.751
Men											
Literacy rate (young men)	7.1	2.3	0.9826	0.0072	0.007	0.629	0.793	226	209	0.968	0.997
Knowledge about HIV prevention (young men)	9.1	6.3	0.4034	0.0496	0.123	2.130	1.459	226	209	0.304	0.503
Condom use with non-regular partners	9.15	6.2	0.7446	0.0715	0.096	1.963	1.401	73	74	0.602	0.888

Under-5s											
Underweight prevalence (moderate and severe)	2.1a	1.8	0.1446	0.0185	0.128	2.522	1.588	1039	914	0.108	0.182
Underweight prevalence (severe)	2.1b	1.8	0.0322	0.0067	0.209	1.325	1.151	1039	914	0.019	0.046
Children under age 5 who slept under an ITN	3.18	6.7	0.2431	0.0211	0.087	2.224	1.491	1041	917	0.201	0.285
Anti-malarial treatment of children under age 5	3.22	6.8	0.6697	0.0781	0.117	2.619	1.618	105	96	0.514	0.826
<i>na: not applicable</i>											

Table SE.29: Sampling errors: Nasarawa

Standard errors, coefficients of variation, design effects (deff), square root of design effects (deft), and confidence intervals for selected indicators, Nigeria, 2016-17

	MICS Indicator	MDG Indicator	Value (r)	Standard error (se)	Coefficient of variation (se/r)	Design effect (deff)	Square root of design effect (deft)	Weighted count	Unweighted count	Confidence limits	
										Lower bound r - 2se	Upper bound r + 2se
Household members											
Use of improved drinking water sources	4.1	7.8	0.5482	0.0542	0.099	10.386	3.223	3792	878	0.440	0.656
Use of improved sanitation	4.3	7.9	0.2704	0.0375	0.139	6.251	2.500	3792	878	0.195	0.345
Primary school net attendance ratio (adjusted)	7.4	2.1	0.7086	0.0300	0.042	4.399	2.097	735	1013	0.649	0.769
Women											
Infant mortality rate	1.2	4.2	81	11.465	0.141	na	na		na	58	104
Under five mortality rate	1.5	4.1	121	13.172	0.109	na	na		na	94	147
Adolescent birth rate	5.1	5.4	101	16.430	0.162	na	na		na	68	134
Contraceptive prevalence rate	5.3	5.3	0.1704	0.0192	0.113	1.979	1.407	530	762	0.132	0.209
Unmet need	5.4	5.6	0.2448	0.0181	0.074	1.344	1.159	530	762	0.209	0.281
Antenatal care coverage (1+ times, skilled provider)	5.5a	5.5	0.5018	0.0456	0.091	2.872	1.695	244	347	0.411	0.593
Antenatal care coverage (4+ times, any provider)	5.5b	5.5	0.4843	0.0416	0.086	2.398	1.549	244	347	0.401	0.568
Skilled attendant at delivery	5.7	5.2	0.6788	0.0464	0.068	3.419	1.849	244	347	0.586	0.772
Literacy rate (young women)	7.1	2.3	0.5602	0.0466	0.083	3.712	1.927	283	422	0.467	0.653
Knowledge about HIV prevention (young women)	9.1	6.3	0.2312	0.0279	0.121	1.845	1.358	283	422	0.175	0.287
Condom use with non-regular partners	9.15	6.2	0.3868	0.0815	0.211	1.482	1.218	35	54	0.224	0.550
Men											
Literacy rate (young men)	7.1	2.3	0.7811	0.0471	0.060	2.480	1.575	139	192	0.687	0.875
Knowledge about HIV prevention (young men)	9.1	6.3	0.2064	0.0420	0.203	2.056	1.434	139	192	0.122	0.290

Condom use with non-regular partners	9.15	6.2	0.4191	0.1065	0.254	1.817	1.348	33	40	0.206	0.632
Under-5s											
Underweight prevalence (moderate and severe)	2.1a	1.8	0.2066	0.0214	0.103	2.462	1.569	592	886	0.164	0.249
Underweight prevalence (severe)	2.1b	1.8	0.0557	0.0082	0.147	1.128	1.062	592	886	0.039	0.072
Children under age 5 who slept under an ITN	3.18	6.7	0.5334	0.0358	0.067	4.660	2.159	605	905	0.462	0.605
Anti-malarial treatment of children under age 5	3.22	6.8	0.3954	0.0476	0.120	1.447	1.203	104	154	0.300	0.490

na: not applicable

Table SE.30: Sampling errors: Niger

Standard errors, coefficients of variation, design effects (deff), square root of design effects (deft), and confidence intervals for selected indicators, Nigeria, 2016-17

	MICS Indicator	MDG Indicator	Value (r)	Standard error (se)	Coefficient of variation (se/r)	Design effect (deff)	Square root of design effect (deft)	Weighted count	Unweighted count	Confidence limits	
										Lower bound r - 2se	Upper bound r + 2se
Household members											
Use of improved drinking water sources	4.1	7.8	0.5292	0.0629	0.119	14.262	3.777	7954	898	0.403	0.655
Use of improved sanitation	4.3	7.9	0.3306	0.0390	0.118	6.158	2.481	7954	898	0.253	0.409
Primary school net attendance ratio (adjusted)	7.4	2.1	0.5200	0.0492	0.095	11.459	3.385	1646	1181	0.422	0.619
Women											
Infant mortality rate	1.2	4.2	100	12.406	0.124	na	na		na	75	125
Under five mortality rate	1.5	4.1	149	17.737	0.119	na	na		na	113	184
Adolescent birth rate	5.1	5.4	138	25.840	0.187	na	na		na	86	190
Contraceptive prevalence rate	5.3	5.3	0.1123	0.0166	0.148	2.535	1.592	1227	920	0.000	1.000
Unmet need	5.4	5.6	0.2948	0.0152	0.051	1.017	1.009	1227	920	0.264	0.325
Antenatal care coverage (1+ times, skilled provider)	5.5a	5.5	0.3262	0.0457	0.140	3.869	1.967	527	409	0.235	0.417
Antenatal care coverage (4+ times, any provider)	5.5b	5.5	0.3352	0.0498	0.149	4.539	2.130	527	409	0.236	0.435
Skilled attendant at delivery	5.7	5.2	0.4790	0.0571	0.119	5.325	2.308	527	409	0.365	0.593
Literacy rate (young women)	7.1	2.3	0.3762	0.0648	0.172	7.146	2.673	534	400	0.247	0.506
Knowledge about HIV prevention (young women)	9.1	6.3	0.1978	0.0361	0.182	3.270	1.808	534	400	0.126	0.270
Condom use with non-regular partners	9.15	6.2	0.5138	0.1152	0.224	1.488	1.220	34	29	0.283	0.744
Men											
Literacy rate (young men)	7.1	2.3	0.5892	0.0737	0.125	4.396	2.097	239	197	0.442	0.737
Knowledge about HIV prevention (young men)	9.1	6.3	0.0872	0.0218	0.250	1.170	1.081	239	197	0.044	0.131

Condom use with non-regular partners	9.15	6.2	0.6345	0.1096	0.173	0.984	0.992	26	20	0.415	0.854
Under-5s											
Underweight prevalence (moderate and severe)	2.1a	1.8	0.2426	0.0186	0.077	1.884	1.373	1246	1003	0.205	0.280
Underweight prevalence (severe)	2.1b	1.8	0.0691	0.0102	0.148	1.623	1.274	1246	1003	0.049	0.090
Children under age 5 who slept under an ITN	3.18	6.7	0.3732	0.0365	0.098	5.738	2.395	1254	1008	0.300	0.446
Anti-malarial treatment of children under age 5	3.22	6.8	0.3551	0.0462	0.130	2.526	1.589	326	272	0.263	0.447
<i>na: not applicable</i>											

Table SE.31: Sampling errors: Ogun

Standard errors, coefficients of variation, design effects (deff), square root of design effects (deft), and confidence intervals for selected indicators, Nigeria, 2016-17

	MICS Indicator	MDG Indicator	Value (r)	Standard error (se)	Coefficient of variation (se/r)	Design effect (deff)	Square root of design effect (deft)	Weighted count	Unweighted count	Confidence limits	
										Lower bound r - 2se	Upper bound r + 2se
Household members											
Use of improved drinking water sources	4.1	7.8	0.8859	0.0402	0.045	12.811	3.579	2317	802	0.805	0.966
Use of improved sanitation	4.3	7.9	0.3150	0.0423	0.134	6.645	2.578	2317	802	0.230	0.400
Primary school net attendance ratio (adjusted)	7.4	2.1	0.8778	0.0188	0.021	1.518	1.232	360	461	0.840	0.915
Women											
Infant mortality rate	1.2	4.2	49	12.644	0.261	na	na		na	23	74
Under five mortality rate	1.5	4.1	66	14.487	0.218	na	na		na	38	95
Adolescent birth rate	5.1	5.4	50	15.124	0.304	na	na		na	20	80
Contraceptive prevalence rate	5.3	5.3	0.2133	0.0249	0.117	1.522	1.234	327	413	0.164	0.263
Unmet need	5.4	5.6	0.3318	0.0228	0.069	0.968	0.984	327	413	0.286	0.377
Antenatal care coverage (1+ times, skilled provider)	5.5a	5.5	0.8639	0.0293	0.034	1.226	1.107	132	169	0.805	0.923
Antenatal care coverage (4+ times, any provider)	5.5b	5.5	0.8301	0.0312	0.038	1.159	1.077	132	169	0.768	0.892
Skilled attendant at delivery	5.7	5.2	0.8531	0.0269	0.032	0.969	0.984	132	169	0.799	0.907
Literacy rate (young women)	7.1	2.3	0.9068	0.0324	0.036	2.487	1.577	155	201	0.842	0.972
Knowledge about HIV prevention (young women)	9.1	6.3	0.3313	0.0372	0.112	1.250	1.118	155	201	0.257	0.406
Condom use with non-regular partners	9.15	6.2	0.5405	0.0847	0.157	1.011	1.006	24	36	0.371	0.710

Men											
Literacy rate (young men)	7.1	2.3	0.8902	0.0422	0.047	1.862	1.365	0	103	0.806	0.975
Knowledge about HIV prevention (young men)	9.1	6.3	0.3815	0.0676	0.177	1.978	1.406	0	103	0.246	0.517
Condom use with non-regular partners	9.15	6.2	0.6514	0.0993	0.152	2.129	1.459	40	50	0.453	0.850
Under-5s											
Underweight prevalence (moderate and severe)	2.1a	1.8	0.2240	0.0268	0.120	1.677	1.295	290	406	0.170	0.278
Underweight prevalence (severe)	2.1b	1.8	0.0547	0.0124	0.227	1.208	1.099	290	406	0.030	0.080
Children under age 5 who slept under an ITN	3.18	6.7	0.2742	0.0321	0.117	2.120	1.456	294	411	0.210	0.338
Anti-malarial treatment of children under age 5	3.22	6.8	0.4392	0.0547	0.125	0.765	0.875	46	64	0.330	0.549
<i>na: not applicable</i>											

Table SE.32: Sampling errors: Ondo

Standard errors, coefficients of variation, design effects (deff), square root of design effects (deft), and confidence intervals for selected indicators, Nigeria, 2016-17

	MICS Indicator	MDG Indicator	Value (r)	Standard error (se)	Coefficient of variation (se/r)	Design effect (deff)	Square root of design effect (deft)	Weighted count	Unweighted count	Confidence limits	
										Lower bound r - 2se	Upper bound r + 2se
Household members											
Use of improved drinking water sources	4.1	7.8	0.7957	0.0439	0.055	11.105	3.332	3471	937	0.708	0.884
Use of improved sanitation	4.3	7.9	0.2188	0.0314	0.144	5.404	2.325	3471	937	0.156	0.282
Primary school net attendance ratio (adjusted)	7.4	2.1	0.9183	0.0247	0.027	4.329	2.081	556	533	0.869	0.968
Women											
Infant mortality rate	1.2	4.2	37	11.093	0.303	na	na	na	na	14	59
Under five mortality rate	1.5	4.1	67	13.417	0.200	na	na	na	na	40	94
Adolescent birth rate	5.1	5.4	47	13.332	0.283	na	na	na	na	20	74
Contraceptive prevalence rate	5.3	5.3	0.2184	0.0263	0.120	1.693	1.301	404	419	0.166	0.271
Unmet need	5.4	5.6	0.2756	0.0253	0.092	1.336	1.156	404	419	0.225	0.326
Antenatal care coverage (1+ times, skilled provider)	5.5a	5.5	0.7606	0.0448	0.059	1.977	1.406	163	180	0.671	0.850
Antenatal care coverage (4+ times, any provider)	5.5b	5.5	0.7637	0.0426	0.056	1.804	1.343	163	180	0.678	0.849
Skilled attendant at delivery	5.7	5.2	0.8504	0.0344	0.040	1.662	1.289	163	180	0.782	0.919
Literacy rate (young women)	7.1	2.3	0.9136	0.0274	0.030	1.937	1.392	206	204	0.859	0.968
Knowledge about HIV prevention (young women)	9.1	6.3	0.2983	0.0397	0.133	1.528	1.236	206	204	0.219	0.378

Condom use with non-regular partners	9.15	6.2	0.4200	0.0754	0.180	1.332	1.154	61	58	0.269	0.571
Men											
Literacy rate (young men)	7.1	2.3	0.9339	0.0293	0.031	1.303	1.142	92	95	0.875	0.992
Knowledge about HIV prevention (young men)	9.1	6.3	0.3410	0.0600	0.176	1.505	1.227	92	95	0.221	0.461
Condom use with non-regular partners	9.15	6.2	0.7234	0.0604	0.083	0.765	0.875	38	43	0.603	0.844
Under-5s											
Underweight prevalence (moderate and severe)	2.1a	1.8	0.1598	0.0203	0.127	1.325	1.151	403	432	0.119	0.200
Underweight prevalence (severe)	2.1b	1.8	0.0284	0.0085	0.299	1.123	1.060	403	432	0.011	0.045
Children under age 5 who slept under an ITN	3.18	6.7	0.3188	0.0366	0.115	2.700	1.643	407	438	0.246	0.392
Anti-malarial treatment of children under age 5	3.22	6.8	0.4015	0.0677	0.169	1.411	1.188	67	75	0.266	0.537
na: not applicable											

Table SE.33: Sampling errors: Osun

Standard errors, coefficients of variation, design effects (deff), square root of design effects (deft), and confidence intervals for selected indicators, Nigeria, 2016-17

	MICS Indicator	MDG Indicator	Value (r)	Standard error (se)	Coefficient of variation (se/r)	Design effect (deff)	Square root of design effect (deft)	Weighted count	Unweighted count	Confidence limits	
										Lower bound r - 2se	Upper bound r + 2se
Household members											
Use of improved drinking water sources	4.1	7.8	0.8848	0.0257	0.029	5.442	2.333	3257	839	0.833	0.936
Use of improved sanitation	4.3	7.9	0.2473	0.0318	0.128	4.539	2.131	3257	839	0.184	0.311
Primary school net attendance ratio (adjusted)	7.4	2.1	0.7313	0.0229	0.031	1.179	1.086	492	443	0.686	0.777
Women											
Infant mortality rate	1.2	4.2	78	14.703	0.189	na	na		na	48	107
Under five mortality rate	1.5	4.1	101	15.941	0.158	na	na		na	69	133
Adolescent birth rate	5.1	5.4	57	13.030	0.230	na	na		na	31	83
Contraceptive prevalence rate	5.3	5.3	0.2462	0.0327	0.133	1.871	1.368	382	326	0.181	0.312
Unmet need	5.4	5.6	0.2564	0.0286	0.111	1.393	1.180	382	326	0.199	0.314
Antenatal care coverage (1+ times, skilled provider)	5.5a	5.5	0.9220	0.0225	0.024	0.966	0.983	161	138	0.877	0.967
Antenatal care coverage (4+ times, any provider)	5.5b	5.5	0.8467	0.0405	0.048	1.730	1.315	161	138	0.766	0.928
Skilled attendant at delivery	5.7	5.2	0.9564	0.0216	0.023	1.530	1.237	161	138	0.913	1.000
Literacy rate (young women)	7.1	2.3	0.9469	0.0187	0.020	1.489	1.220	250	215	0.909	0.984

Knowledge about HIV prevention (young women)	9.1	6.3	0.2076	0.0348	0.168	1.579	1.257	250	215	0.138	0.277
Condom use with non-regular partners	9.15	6.2	0.3130	0.0665	0.213	0.864	0.930	50	43	0.180	0.446
Men											
Literacy rate (young men)	7.1	2.3	0.9481	0.0211	0.022	0.869	0.932	135	97	0.906	0.990
Knowledge about HIV prevention (young men)	9.1	6.3	0.1705	0.0442	0.259	1.324	1.151	135	97	0.082	0.259
Condom use with non-regular partners	9.15	6.2	0.5526	0.1347	0.244	2.055	1.434	41	29	0.283	0.822
Under-5s											
Underweight prevalence (moderate and severe)	2.1a	1.8	0.1872	0.0253	0.135	1.350	1.162	335	322	0.137	0.238
Underweight prevalence (severe)	2.1b	1.8	0.0660	0.0132	0.200	0.906	0.952	335	322	0.040	0.092
Children under age 5 who slept under an ITN	3.18	6.7	0.2255	0.0216	0.096	0.846	0.920	331	318	0.182	0.269
Anti-malarial treatment of children under age 5	3.22	6.8	0.3652	0.0559	0.153	0.957	0.979	76	72	0.253	0.477
na: not applicable											

Table SE.34: Sampling errors: Oyo

Standard errors, coefficients of variation, design effects (deff), square root of design effects (deft), and confidence intervals for selected indicators, Nigeria, 2016-17

	MICS Indicator	MDG Indicator	Value (r)	Standard error (se)	Coefficient of variation (se/r)	Design effect (deff)	Square root of design effect (deft)	Weighted count	Unweighted count	Confidence limits	
										Lower bound r - 2se	Upper bound r + 2se
Household members											
Use of improved drinking water sources	4.1	7.8	0.8280	0.0392	0.047	9.537	3.088	5508	887	0.750	0.906
Use of improved sanitation	4.3	7.9	0.2159	0.0428	0.198	9.568	3.093	5508	887	0.130	0.301
Primary school net attendance ratio (adjusted)	7.4	2.1	0.7435	0.0361	0.049	3.689	1.921	895	541	0.671	0.816
Women											
Infant mortality rate	1.2	4.2	59	10.314	0.175	na	na		na	38	80
Under five mortality rate	1.5	4.1	73	13.105	0.180	na	na		na	47	99
Adolescent birth rate	5.1	5.4	54	15.424	0.285	na	na		na	23	85
Contraceptive prevalence rate	5.3	5.3	0.3417	0.0338	0.099	2.253	1.501	751	444	0.274	0.409
Unmet need	5.4	5.6	0.2669	0.0224	0.084	1.132	1.064	751	444	0.222	0.312
Antenatal care coverage (1+ times, skilled provider)	5.5a	5.5	0.6827	0.0362	0.053	1.166	1.080	322	194	0.610	0.755
Antenatal care coverage (4+ times, any provider)	5.5b	5.5	0.7981	0.0370	0.046	1.636	1.279	322	194	0.724	0.872
Skilled attendant at delivery	5.7	5.2	0.8688	0.0289	0.033	1.410	1.188	322	194	0.811	0.927

Literacy rate (young women)	7.1	2.3	0.9075	0.0266	0.029	1.554	1.247	308	186	0.854	0.961
Knowledge about HIV prevention (young women)	9.1	6.3	0.2112	0.0341	0.161	1.291	1.136	308	186	0.143	0.279
Condom use with non-regular partners	9.15	6.2	0.4322	0.0697	0.161	0.712	0.844	65	37	0.293	0.572
Men											
Literacy rate (young men)	7.1	2.3	0.8832	0.0418	0.047	1.577	1.256	168	94	0.800	0.967
Knowledge about HIV prevention (young men)	9.1	6.3	0.2671	0.0633	0.237	1.904	1.380	168	94	0.140	0.394
Condom use with non-regular partners	9.15	6.2	0.4150	0.0831	0.200	0.824	0.908	53	30	0.249	0.581
Under-5s											
Underweight prevalence (moderate and severe)	2.1a	1.8	0.1743	0.0178	0.102	1.076	1.037	724	489	0.139	0.210
Underweight prevalence (severe)	2.1b	1.8	0.0339	0.0089	0.261	1.167	1.080	724	489	0.016	0.052
Children under age 5 who slept under an ITN	3.18	6.7	0.3336	0.0351	0.105	2.772	1.665	738	501	0.263	0.404
Anti-malarial treatment of children under age 5	3.22	6.8	0.4644	0.0649	0.140	1.607	1.268	132	96	0.335	0.594
<i>na: not applicable</i>											

Table SE.35: Sampling errors: Plateau

Standard errors, coefficients of variation, design effects (deff), square root of design effects (deft), and confidence intervals for selected indicators, Nigeria, 2016-17

	MICS Indicator	MDG Indicator	Value (r)	Standard error (se)	Coefficient of variation (se/r)	Design effect (deff)	Square root of design effect (deft)	Weighted count	Unweighted count	Confidence limits	
										Lower bound r - 2se	Upper bound r + 2se
Household members											
Use of improved drinking water sources	4.1	7.8	0.4291	0.0673	0.157	16.287	4.036	6581	883	0.295	0.564
Use of improved sanitation	4.3	7.9	0.2682	0.0519	0.194	12.120	3.481	6581	883	0.164	0.372
Primary school net attendance ratio (adjusted)	7.4	2.1	0.7583	0.0434	0.057	9.152	3.025	1106	891	0.672	0.845
Women											
Infant mortality rate	1.2	4.2	55	9.986	0.183	na	na	na	na	35	75
Under five mortality rate	1.5	4.1	80	12.661	0.158	na	na	na	na	55	106
Adolescent birth rate	5.1	5.4	94	19.377	0.206	na	na	na	na	55	133
Contraceptive prevalence rate	5.3	5.3	0.2011	0.0249	0.124	2.902	1.704	894	756	0.151	0.251
Unmet need	5.4	5.6	0.2553	0.0148	0.058	0.866	0.930	894	756	0.226	0.285
Antenatal care coverage (1+ times, skilled provider)	5.5a	5.5	0.4645	0.0433	0.093	2.442	1.563	392	325	0.378	0.551
Antenatal care coverage (4+ times, any provider)	5.5b	5.5	0.4729	0.0569	0.120	4.201	2.050	392	325	0.359	0.587

Skilled attendant at delivery	5.7	5.2	0.6127	0.0546	0.089	4.077	2.019	392	325	0.503	0.722
Literacy rate (young women)	7.1	2.3	0.6505	0.0534	0.082	5.071	2.252	497	406	0.544	0.757
Knowledge about HIV prevention (young women)	9.1	6.3	0.2831	0.0330	0.116	2.171	1.473	497	406	0.217	0.349
Condom use with non-regular partners	9.15	6.2	0.5357	0.0784	0.146	1.137	1.066	53	47	0.379	0.693
Men											
Literacy rate (young men)	7.1	2.3	0.6959	0.0665	0.095	4.863	2.205	272	234	0.563	0.829
Knowledge about HIV prevention (young men)	9.1	6.3	0.2482	0.0429	0.173	2.300	1.516	272	234	0.162	0.334
Condom use with non-regular partners	9.15	6.2	0.7790	0.1057	0.136	1.881	1.372	37	30	0.568	0.990
Under-5s											
Underweight prevalence (moderate and severe)	2.1a	1.8	0.1850	0.0193	0.104	2.296	1.515	1100	928	0.146	0.224
Underweight prevalence (severe)	2.1b	1.8	0.0451	0.0092	0.203	1.806	1.344	1100	928	0.027	0.063
Children under age 5 who slept under an ITN	3.18	6.7	0.5203	0.0417	0.080	6.446	2.539	1098	927	0.437	0.604
Anti-malarial treatment of children under age 5	3.22	6.8	0.4936	0.0616	0.125	2.311	1.520	178	153	0.370	0.617
<i>na: not applicable</i>											

Table SE.36: Sampling errors: Rivers

Standard errors, coefficients of variation, design effects (deff), square root of design effects (deft), and confidence intervals for selected indicators, Nigeria, 2016-17

	MICS Indicator	MDG Indicator	Value (r)	Standard error (se)	Coefficient of variation (se/r)	Design effect (deff)	Square root of design effect (deft)	Weighted count	Unweighted count	Confidence limits	
										Lower bound r - 2se	Upper bound r + 2se
Household members											
Use of improved drinking water sources	4.1	7.8	0.8346	0.0362	0.043	8.124	2.850	3729	858	0.762	0.907
Use of improved sanitation	4.3	7.9	0.3867	0.0438	0.113	6.925	2.632	3729	858	0.299	0.474
Primary school net attendance ratio (adjusted)	7.4	2.1	0.9058	0.0126	0.014	0.801	0.895	502	430	0.881	0.931
Women											
Infant mortality rate	1.2	4.2	41	9.670	0.238	na	na	na	na	21	60
Under five mortality rate	1.5	4.1	58	12.589	0.218	na	na	na	na	33	83
Adolescent birth rate	5.1	5.4	18	7.411	0.416	na	na	na	na	3	33
Contraceptive prevalence rate	5.3	5.3	0.1800	0.0209	0.116	1.142	1.068	423	385	0.138	0.222
Unmet need	5.4	5.6	0.2769	0.0194	0.070	0.724	0.851	423	385	0.238	0.316
Antenatal care coverage (1+ times, skilled provider)	5.5a	5.5	0.8579	0.0358	0.042	1.587	1.260	163	152	0.786	0.929

Antenatal care coverage (4+ times, any provider)	5.5b	5.5	0.8372	0.0320	0.038	1.133	1.065	163	152	0.773	0.901
Skilled attendant at delivery	5.7	5.2	0.8761	0.0323	0.037	1.452	1.205	163	152	0.812	0.941
Literacy rate (young women)	7.1	2.3	0.9811	0.0088	0.009	1.053	1.026	262	251	0.963	0.999
Knowledge about HIV prevention (young women)	9.1	6.3	0.5015	0.0444	0.089	1.972	1.404	262	251	0.413	0.590
Condom use with non-regular partners	9.15	6.2	0.5229	0.0677	0.130	1.471	1.213	84	81	0.387	0.658
Men											
Literacy rate (young men)	7.1	2.3	0.9472	0.0342	0.036	3.460	1.860	152	149	0.879	0.000
Knowledge about HIV prevention (young men)	9.1	6.3	0.6124	0.0411	0.067	1.055	1.027	152	149	0.530	0.000
Condom use with non-regular partners	9.15	6.2	0.8128	0.0471	0.058	1.124	1.060	79	78	0.719	0.907
Under-5s											
Underweight prevalence (moderate and severe)	2.1a	1.8	0.0759	0.0157	0.207	1.383	1.176	411	394	0.044	0.107
Underweight prevalence (severe)	2.1b	1.8	0.0129	0.0055	0.429	0.946	0.973	411	394	0.002	0.024
Children under age 5 who slept under an ITN	3.18	6.7	0.3064	0.0347	0.113	2.217	1.489	410	393	0.237	0.376
Anti-malarial treatment of children under age 5	3.22	6.8	0.5732	0.0509	0.089	0.878	0.937	85	84	0.471	0.675
<i>na: not applicable</i>											

Table SE.37: Sampling errors:Sokoto

Standard errors, coefficients of variation, design effects (deff), square root of design effects (deft), and confidence intervals for selected indicators, Nigeria, 2016-17

	MICS Indicator	MDG Indicator	Value (r)	Standard error (se)	Coefficient of variation (se/r)	Design effect (deff)	Square root of design effect (deft)	Weighted count	Unweighted count	Confidence limits	
										Lower bound r - 2se	Upper bound r + 2se
Household members											
Use of improved drinking water sources	4.1	7.8	0.3259	0.0554	0.170	12.942	3.597	5164	928	0.215	0.437
Use of improved sanitation	4.3	7.9	0.4072	0.0361	0.089	5.011	2.238	5164	928	0.335	0.479
Primary school net attendance ratio (adjusted)	7.4	2.1	0.3197	0.0399	0.125	8.429	2.903	1019	1154	0.240	0.399
Women											
Infant mortality rate	1.2	4.2	51	8.719	0.171	na	na		na	33	68
Under five mortality rate	1.5	4.1	119	14.165	0.119	na	na		na	91	148
Adolescent birth rate	5.1	5.4	174	17.791	0.102	na	na		na	138	209
Contraceptive prevalence rate	5.3	5.3	0.0466	0.0101	0.216	2.130	1.459	784	933	0.026	0.067
Unmet need	5.4	5.6	0.3061	0.0162	0.053	1.147	1.071	784	933	0.274	0.338

Antenatal care coverage (1+ times, skilled provider)	5.5a	5.5	0.2489	0.0373	0.150	3.716	1.928	409	500	0.174	0.324
Antenatal care coverage (4+ times, any provider)	5.5b	5.5	0.2060	0.0282	0.137	2.432	1.560	409	500	0.149	0.262
Skilled attendant at delivery	5.7	5.2	0.3515	0.0426	0.121	3.975	1.994	409	500	0.266	0.437
Literacy rate (young women)	7.1	2.3	0.2010	0.0599	0.298	8.633	2.938	320	387	0.081	0.321
Knowledge about HIV prevention (young women)	9.1	6.3	0.1003	0.0203	0.202	1.757	1.326	320	387	0.060	0.141
Condom use with non-regular partners	9.15	6.2	0.0000	0.0000				3	4	0.000	0.000
Men											
Literacy rate (young men)	7.1	2.3	0.4736	0.0719	0.152	3.094	1.759	152	150	0.330	0.000
Knowledge about HIV prevention (young men)	9.1	6.3	0.0715	0.0253	0.353	1.431	1.196	152	150	0.021	0.000
Condom use with non-regular partners	9.15	6.2						0	0	0.000	0.000
Under-5s											
Underweight prevalence (moderate and severe)	2.1a	1.8	0.4863	0.0187	0.038	1.673	1.294	958	1199	0.449	0.524
Underweight prevalence (severe)	2.1b	1.8	0.2295	0.0156	0.068	1.648	1.284	958	1199	0.198	0.261
Children under age 5 who slept under an ITN	3.18	6.7	0.4026	0.0314	0.078	4.953	2.225	972	1208	0.340	0.465
Anti-malarial treatment of children under age 5	3.22	6.8	0.3166	0.0345	0.109	1.560	1.249	248	284	0.247	0.386
<i>na: not applicable</i>											

Table SE.38: Sampling errors:Taraba

Standard errors, coefficients of variation, design effects (deff), square root of design effects (deft), and confidence intervals for selected indicators, Nigeria, 2016-17

	MICS Indicator	MDG Indicator	Value (r)	Standard error (se)	Coefficient of variation (se/r)	Design effect (deff)	Square root of design effect (deft)	Weighted count	Unweighted count	Confidence limits	
										Lower bound r - 2se	Upper bound r + 2se
Household members											
Use of improved drinking water sources	4.1	7.8	0.3819	0.0548	0.144	9.472	3.078	2974	745	0.272	0.492
Use of improved sanitation	4.3	7.9	0.3104	0.0516	0.166	9.264	3.044	2974	745	0.207	0.414
Primary school net attendance ratio (adjusted)	7.4	2.1	0.5821	0.0519	0.089	8.523	2.919	548	770	0.478	0.686
Women											
Infant mortality rate	1.2	4.2	63.625	14.7577621	0.23194987	na	na		na	34.109	93.140
Under five mortality rate	1.5	4.1	105.46	18.9655964	0.17983273	na	na		na	67.531	143.394
Adolescent birth rate	5.1	5.4	81.4405	14.6254	0.180	na	na		na	52.190	110.691
Contraceptive prevalence rate	5.3	5.3	0.0671	0.0125	0.186	1.274	1.129	364	511	0.042	0.092

Unmet need	5.4	5.6	0.2634	0.0214	0.081	1.205	1.098	364	511	0.221	0.306
Antenatal care coverage (1+ times, skilled provider)	5.5a	5.5	0.3155	0.0515	0.163	2.811	1.677	173	230	0.213	0.419
Antenatal care coverage (4+ times, any provider)	5.5b	5.5	0.2960	0.0472	0.159	2.449	1.565	173	230	0.202	0.390
Skilled attendant at delivery	5.7	5.2	0.4520	0.0524	0.116	2.541	1.594	173	230	0.347	0.557
Literacy rate (young women)	7.1	2.3	0.5305	0.0712	0.134	5.599	2.366	207	276	0.388	0.673
Knowledge about HIV prevention (young women)	9.1	6.3	0.1386	0.0236	0.171	1.288	1.135	207	276	0.091	0.186
Condom use with non-regular partners	9.15	6.2	0.2539	0.0698	0.275	1.440	1.200	39	57	0.114	0.393
Men											
Literacy rate (young men)	7.1	2.3	0.7060	0.0682	0.097	2.959	1.720	91	133	0.570	0.842
Knowledge about HIV prevention (young men)	9.1	6.3	0.1291	0.0302	0.233	1.067	1.033	91	133	0.069	0.189
Condom use with non-regular partners	9.15	6.2	0.3380	0.1002	0.296	1.390	1.179	20	32	0.138	0.538
Under-5s											
Underweight prevalence (moderate and severe)	2.1a	1.8	0.2424	0.0225	0.093	1.567	1.252	403	571	0.197	0.287
Underweight prevalence (severe)	2.1b	1.8	0.0928	0.0114	0.123	0.881	0.939	403	571	0.070	0.116
Children under age 5 who slept under an ITN	3.18	6.7	0.2970	0.0256	0.086	1.850	1.360	418	589	0.246	0.348
Anti-malarial treatment of children under age 5	3.22	6.8	0.1069	0.0362	0.339	1.140	1.068	59	84	0.035	0.179

na: not applicable

Table SE.39: Sampling errors:Yobe

Standard errors, coefficients of variation, design effects (deff), square root of design effects (deft), and confidence intervals for selected indicators, Nigeria, 2016-17

	MICS Indicator	MDG Indicator	Value (r)	Standard error (se)	Coefficient of variation (se/r)	Design effect (deff)	Square root of design effect (deft)	Weighted count	Unweighted count	Confidence limits	
										Lower bound r - 2se	Upper bound r + 2se
Household members											
Use of improved drinking water sources	4.1	7.8	0.6320	0.0558	0.088	9.322	3.053	6511	697	0.520	0.744
Use of improved sanitation	4.3	7.9	0.2071	0.0456	0.220	8.831	2.972	6511	697	0.116	0.298
Primary school net attendance ratio (adjusted)	7.4	2.1	0.3783	0.0557	0.147	13.712	3.703	1363	1039	0.267	0.490
Women											
Infant mortality rate	1.2	4.2	64	7.828	0.122	na	na		na	48	80
Under five mortality rate	1.5	4.1	102	11.621	0.114	na	na		na	79	125
Adolescent birth rate	5.1	5.4	159	23.142	0.146	na	na		na	113	205
Contraceptive prevalence rate	5.3	5.3	0.0350	0.0095	0.272	1.923	1.387	866	720	0.016	0.054

Unmet need	5.4	5.6	0.2190	0.0175	0.080	1.290	1.136	866	720	0.184	0.254
Antenatal care coverage (1+ times, skilled provider)	5.5a	5.5	0.2662	0.0452	0.170	3.472	1.863	410	333	0.176	0.357
Antenatal care coverage (4+ times, any provider)	5.5b	5.5	0.1388	0.0276	0.199	2.109	1.452	410	333	0.084	0.194
Skilled attendant at delivery	5.7	5.2	0.4122	0.0655	0.159	5.870	2.423	410	333	0.281	0.543
Literacy rate (young women)	7.1	2.3	0.2831	0.0661	0.233	6.753	2.599	393	315	0.151	0.415
Knowledge about HIV prevention (young women)	9.1	6.3	0.1730	0.0284	0.164	1.772	1.331	393	315	0.116	0.230
Condom use with non-regular partners	9.15	6.2	0.0000	0.0000				1	1	0.000	0.000
Men											
Literacy rate (young men)	7.1	2.3	0.4274	0.0799	0.187	4.934	2.221	0	190	0.268	0.587
Knowledge about HIV prevention (young men)	9.1	6.3	0.2536	0.0518	0.204	2.679	1.637	0	190	0.150	0.357
Condom use with non-regular partners	9.15	6.2	0.0000	0.0000				4	4	0.000	0.000
Under-5s											
Underweight prevalence (moderate and severe)	2.1a	1.8	0.5096	0.0221	0.043	1.416	1.190	866	726	0.465	0.554
Underweight prevalence (severe)	2.1b	1.8	0.2410	0.0226	0.094	2.033	1.426	866	726	0.196	0.286
Children under age 5 who slept under an ITN	3.18	6.7	0.6406	0.0268	0.042	2.748	1.658	1069	882	0.587	0.694
Anti-malarial treatment of children under age 5	3.22	6.8	0.2064	0.0234	0.113	1.150	1.073	438	346	0.160	0.253
<i>na: not applicable</i>											

Table SE.40: Sampling errors: Zamfara

Standard errors, coefficients of variation, design effects (deff), square root of design effects (deft), and confidence intervals for selected indicators, Nigeria, 2016-17

	MICS Indicator	MDG Indicator	Value (r)	Standard error (se)	Coefficient of variation (se/r)	Design effect (deff)	Square root of design effect (deft)	Weighted count	Unweighted count	Confidence limits	
										Lower bound r - 2se	Upper bound r + 2se
Household members											
Use of improved drinking water sources	4.1	7.8	0.5154	0.0504	0.098	9.169	3.028	7663	903	0.415	0.616
Use of improved sanitation	4.3	7.9	0.4124	0.0350	0.085	4.557	2.135	7663	903	0.342	0.482
Primary school net attendance ratio (adjusted)	7.4	2.1	0.4009	0.0443	0.111	11.004	3.317	1615	1346	0.312	0.490
Women											
Infant mortality rate	1.2	4.2	104	9.522	0.091	na	na		na	85	123
Under five mortality rate	1.5	4.1	210	12.530	0.060	na	na		na	185	235

Adolescent birth rate	5.1	5.4	208	23.930	0.115	na	na	na	160	256	
Contraceptive prevalence rate	5.3	5.3	0.0560	0.0148	0.264	4.254	2.062	1149	1028	0.026	0.086
Unmet need	5.4	5.6	0.1930	0.0142	0.074	1.329	1.153	1149	1028	0.165	0.221
Antenatal care coverage (1+ times, skilled provider)	5.5a	5.5	0.2896	0.0360	0.124	3.202	1.789	583	510	0.218	0.362
Antenatal care coverage (4+ times, any provider)	5.5b	5.5	0.1641	0.0228	0.139	1.935	1.391	583	510	0.118	0.210
Skilled attendant at delivery	5.7	5.2	0.4218	0.0447	0.106	4.169	2.042	583	510	0.332	0.511
Literacy rate (young women)	7.1	2.3	0.3099	0.0583	0.188	7.226	2.688	486	455	0.193	0.427
Knowledge about HIV prevention (young women)	9.1	6.3	0.2354	0.0279	0.118	1.959	1.400	486	455	0.180	0.291
Condom use with non-regular partners	9.15	6.2	0.0000	0.0000				1	1	0.000	0.000
Men											
Literacy rate (young men)	7.1	2.3	0.5300	0.0579	0.109	2.503	1.582	248	187	0.414	0.646
Knowledge about HIV prevention (young men)	9.1	6.3	0.1704	0.0456	0.267	2.731	1.653	248	187	0.079	0.262
Condom use with non-regular partners	9.15	6.2	0.0000	0.0000				7	7	0.000	0.000
Under-5s											
Underweight prevalence (moderate and severe)	2.1a	1.8	0.3657	0.0189	0.052	1.813	1.346	1290	1176	0.328	0.404
Underweight prevalence (severe)	2.1b	1.8	0.1529	0.0129	0.084	1.500	1.225	1290	1176	0.127	0.179
Children under age 5 who slept under an ITN	3.18	6.7	0.6928	0.0218	0.032	2.654	1.629	1303	1184	0.649	0.736
Anti-malarial treatment of children under age 5	3.22	6.8	0.2313	0.0236	0.102	1.364	1.168	478	436	0.184	0.279
<i>na: not applicable</i>											

Table SE.41: Sampling errors:FCT-Abuja

Standard errors, coefficients of variation, design effects (deff), square root of design effects (deft), and confidence intervals for selected indicators, Nigeria, 2016-17

	MICS Indicator	MDG Indicator	Value (r)	Standard error (se)	Coefficient of variation (se/r)	Design effect (deff)	Square root of design effect (deft)	Weighted count	Unweighted count	Confidence limits	
										Lower bound r - 2se	Upper bound r + 2se
Household members											
Use of improved drinking water sources	4.1	7.8	0.7560	0.0440	0.058	9.597	3.098	1489	914	0.668	0.844
Use of improved sanitation	4.3	7.9	0.4086	0.0467	0.114	8.241	2.871	1489	914	0.315	0.502
Primary school net attendance ratio (adjusted)	7.4	2.1	0.8624	0.0194	0.023	2.750	1.658	249	864	0.824	0.901
Women											
Infant mortality rate	1.2	4.2	42	7.844	0.189	na	na	na	na	26	57

Under five mortality rate	1.5	4.1	70	10.204	0.146	na	na		na	49	90
Adolescent birth rate	5.1	5.4	39	9.820	0.249	na	na		na	20	59
Contraceptive prevalence rate	5.3	5.3	0.2625	0.0253	0.096	2.483	1.576	213	753	0.212	0.313
Unmet need	5.4	5.6	0.2408	0.0222	0.092	2.026	1.423	213	753	0.196	0.285
Antenatal care coverage (1+ times, skilled provider)	5.5a	5.5	0.7520	0.0417	0.055	2.769	1.664	89	298	0.669	0.835
Antenatal care coverage (4+ times, any provider)	5.5b	5.5	0.7062	0.0411	0.058	2.421	1.556	89	298	0.624	0.788
Skilled attendant at delivery	5.7	5.2	0.8284	0.0380	0.046	3.015	1.736	89	298	0.752	0.904
Literacy rate (young women)	7.1	2.3	0.8129	0.0293	0.036	2.431	1.559	126	433	0.754	0.871
Knowledge about HIV prevention (young women)	9.1	6.3	0.3329	0.0378	0.114	2.780	1.667	126	433	0.257	0.409
Condom use with non-regular partners	9.15	6.2	0.4958	0.0560	0.113	1.192	1.092	27	96	0.384	0.608
Men											
Literacy rate (young men)	7.1	2.3	0.9005	0.0291	0.032	1.777	1.333	52	189	0.842	0.959
Knowledge about HIV prevention (young men)	9.1	6.3	0.2702	0.0376	0.139	1.345	1.160	52	189	0.195	0.345
Condom use with non-regular partners	9.15	6.2	0.7038	0.1110	0.158	1.596	1.263	8	28	0.482	0.926
Under-5s											
Underweight prevalence (moderate and severe)	2.1a	1.8	0.1258	0.0148	0.117	1.441	1.200	205	729	0.096	0.155
Underweight prevalence (severe)	2.1b	1.8	0.0260	0.0072	0.277	1.487	1.219	205	729	0.012	0.040
Children under age 5 who slept under an ITN	3.18	6.7	0.2800	0.0252	0.090	2.342	1.530	209	743	0.230	0.330
Anti-malarial treatment of children under age 5	3.22	6.8	0.4708	0.0494	0.105	1.745	1.321	49	179	0.372	0.570
<i>na: not applicable</i>											

Appendix D. Data Quality Tables

Table DQ.1: Age distribution of household population

Single-year age distribution of household population by sex, Nigeria, 2016-17

	Males		Females		Age	Males		Females	
	Number	Percent	Number	Percent		Number	Percent	Number	Percent
0	3036	3.4	3065	3.3	45	1246	1.4	1038	1.1
1	3076	3.4	3064	3.3	46	526	0.6	511	0.6
2	3206	3.6	2939	3.2	47	456	0.5	430	0.5
3	3244	3.6	3251	3.5	48	597	0.7	512	0.6
4	3260	3.6	3158	3.4	49	349	0.4	304	0.3
5	3098	3.4	2959	3.2	50	1242	1.4	1852	2.0
6	3257	3.6	3210	3.5	51	457	0.5	641	0.7
7	3233	3.6	2929	3.2	52	551	0.6	820	0.9
8	3085	3.4	3109	3.4	53	408	0.5	464	0.5
9	2378	2.6	2368	2.6	54	358	0.4	429	0.5
10	3214	3.6	3143	3.4	55	781	0.9	842	0.9
11	1858	2.1	1952	2.1	56	532	0.6	505	0.5
12	2856	3.2	2735	3.0	57	313	0.3	259	0.3
13	2234	2.5	2308	2.5	58	346	0.4	329	0.4
14	2131	2.4	2342	2.5	59	205	0.2	175	0.2
15	2088	2.3	1816	2.0	60	1101	1.2	934	1.0
16	1919	2.1	1643	1.8	61	230	0.3	215	0.2
17	1575	1.7	1454	1.6	62	326	0.4	251	0.3
18	1740	1.9	1696	1.8	63	209	0.2	189	0.2

19		1077	1.2	1068	1.2	64	244	0.3	185	0.2
20		2010	2.2	2250	2.4	65	558	0.6	367	0.4
21		875	1.0	963	1.0	66	215	0.2	185	0.2
22		1090	1.2	1212	1.3	67	183	0.2	114	0.1
23		949	1.1	1061	1.2	68	206	0.2	190	0.2
24		827	0.9	1056	1.1	69	154	0.2	123	0.1
25		1702	1.9	2398	2.6	70	761	0.8	524	0.6
26		870	1.0	1066	1.2	71	174	0.2	133	0.1
27		814	0.9	1101	1.2	72	133	0.1	108	0.1
28		909	1.0	1178	1.3	73	102	0.1	69	0.1
29		646	0.7	754	0.8	74	122	0.1	67	0.1
30		1997	2.2	2604	2.8	75	278	0.3	196	0.2
31		631	0.7	747	0.8	76	150	0.2	115	0.1
32		890	1.0	1011	1.1	77	50	0.1	35	0.0
33		644	0.7	777	0.8	78	98	0.1	61	0.1
34		661	0.7	772	0.8	79	37	0.0	45	0.0
35		1697	1.9	1855	2.0	80	350	0.4	237	0.3
36		736	0.8	887	1.0	81	62	0.1	45	0.0
37		692	0.8	639	0.7	82	54	0.1	74	0.1
38		725	0.8	850	0.9	83	38	0.0	33	0.0
39		457	0.5	498	0.5	84	34	0.0	33	0.0
40		1847	2.0	1865	2.0	85+	352	0.4	327	0.4
41	544	0.6	521	0.6	42					
	651	0.7	667	0.7		DK/Missing	208	0.2	184	0.2
43		499	0.6	469	0.5					
44		445	0.5	427	0.5	Total	90172	100.0	91993	100.0

Figure DQ.1: Household population by single ages, Nigeria, 2016-17

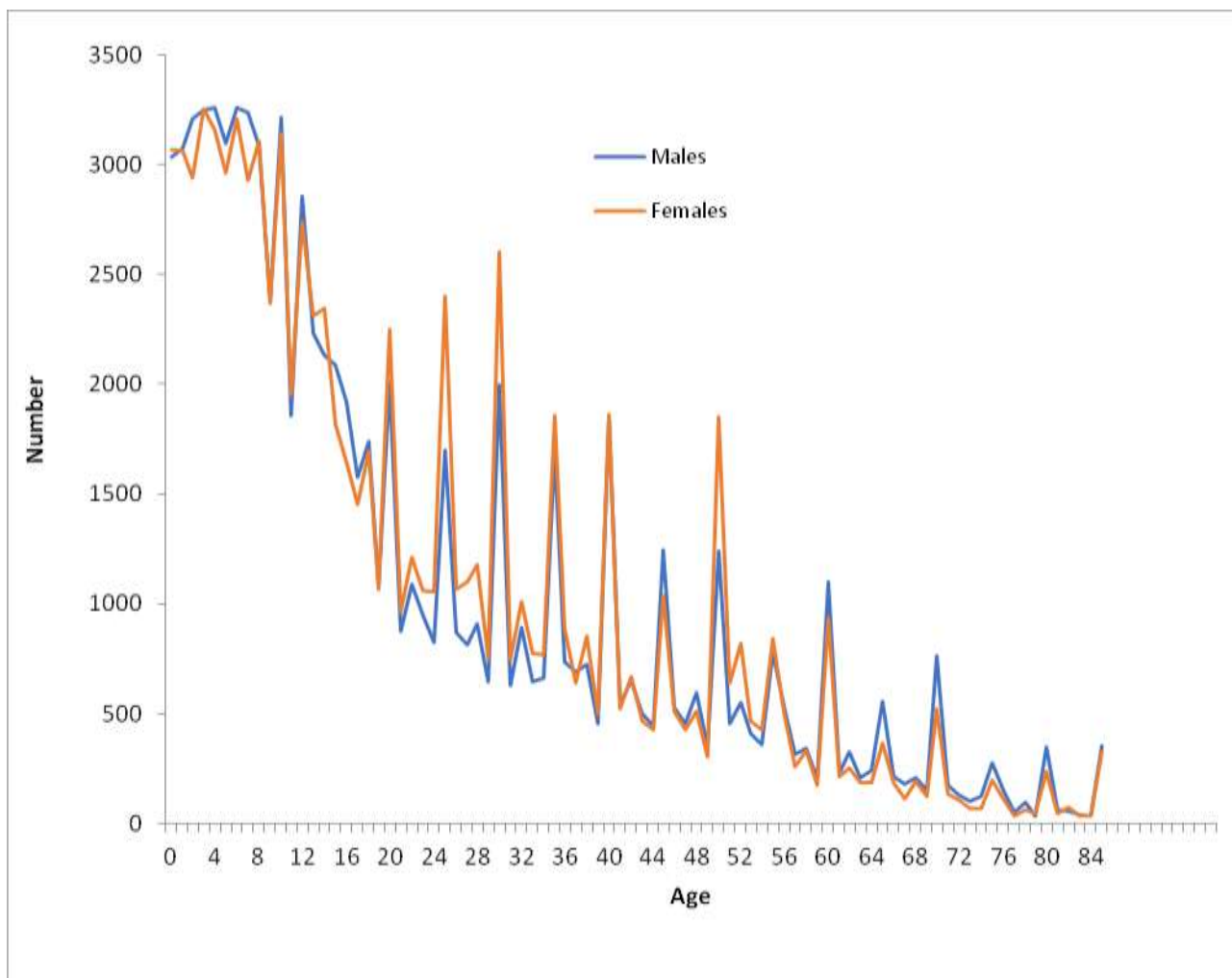


Table DQ.2: Age distribution of eligible and interviewed women

Household population of women age 10-54 years, interviewed women age 15-49 years, and percentage of eligible women who were interviewed, by five-year age groups, Nigeria, 2016-17

	Household population of women age 10-54 years		Interviewed women age 15-49 years		Percentage of eligible women interviewed (Completion rate)
	Number		Number	Percent	

Age				
10-14		na	na	na
15-19	7677	7203	19.9	93.8
20-24	6542	6144	16.9	93.9
25-29	6496	6240	17.2	96.1
30-34	5911	5687	15.7	96.2
35-39	4730	4578	12.6	96.8
40-44	3949	3764	10.4	95.3
45-49	2796	2665	7.3	95.3
50-54		na	na	na
Total (15-49)	38101	36282	100.0	95.2
Ratio of 50-54 to 45-49	1.50	na	na	na
<i>na: not applicable</i>				

Table DQ.3: Age distribution of eligible and interviewed men

Household population of men age 10-54 years, in all households and in households selected for men's interviews, interviewed men age 15-49 years, and percentage of eligible men who were interviewed, by five-year age groups, Nigeria, 2016-17

	Household population of men age 10-54 years		Interviewed men age 15-49 years		Percentage of eligible men interviewed (Completion rate)
	All households	Selected households			
	Number	Number	Number	Percent	
Age 10-14	12292	6209	na	na	na
15-19	8398	3997	3709	23.1	92.8
20-24	5752	2720	2502	15.6	92.0
25-29	4942	2499	2315	14.4	92.6
30-34	4824	2403	2202	13.7	91.6
35-39	4308	2204	2045	12.7	92.8
40-44	3986	1997	1819	11.3	91.1
45-49	3174	1587	1453	9.1	91.6
50-54	3016	1474	na	na	na
Total (15-49)	35384	17407	16044	100.0	92.2
Ratio of 50-54 to 45-49	95	.93	na	na	na
<i>na: not applicable</i>					

Table DQ.4: Age distribution of children in household and under-5 questionnaires

Household population of children age 0-7 years, children age 0-4 years whose mothers/caretakers were interviewed, and percentage of under-5 children whose mothers/caretakers were interviewed, by single years of age, Nigeria, 2016-17

Age	Household population of children 0-7 years with completed interviews		Percentage of eligible under-5s children 0-4 years with completed interviews			(Completion rate)
	Number	Number	Number	Percent	Percent	
0	6101	5998	19.5	98.3		
1		6139	6037	19.6	98.3	
2		6145	6030	19.6	98.1	
3		6495	6391	20.8	98.4	
4		6418	6331	20.6	98.6	
5		6057	na	na	na	
6		6467	na	na	na	
7		6163	na	na	na	
Total (0-4)	31299	30786		100.0	98.4	
Ratio of 5 to 4	.94	na		na	na	

na: not applicable

Table DQ.5: Birth date reporting: Household population (continued)

Percent distribution of household population by completeness of date of birth information, Nigeria, 2016-17

	Completeness of reporting				Total	Number of household members
	Year and month of birth	Year of birth only	Month of birth only	Both missing		
Total	85.3	12.1	0.1	2.4	100.0	182165
State						
Abia	79.0	16.3	0.1	4.6	100.0	1826
Adamawa	86.3	13.6	0.0	0.2	100.0	4379
Akwa Ibom	97.1	2.8	0.0	0.1	100.0	3893
Anambra	89.8	8.2	0.1	1.9	100.0	2965
Bauchi	91.2	8.7	0.0	0.0	100.0	8746
Bayelsa	88.8	7.7	0.1	3.4	100.0	1279
Benue	91.5	8.2	0.0	0.2	100.0	5012
Borno	96.1	3.9	0.0	0.0	100.0	11063
Cross River	92.4	4.1	0.1	3.4	100.0	3233
Delta	92.9	6.0	0.2	0.8	100.0	2921
Ebonyi	89.2	7.2	0.1	3.5	100.0	2248
Edo	93.5	4.9	0.3	1.3	100.0	2339

Ekiti	79.8	19.1	0.0	1.2	100.0	1128
Enugu	86.7	10.5	0.4	2.4	100.0	2399
Gombe	81.2	17.1	0.3	1.3	100.0	3291
Imo	95.7	3.7	0.1	0.4	100.0	3270
Jigawa	63.4	15.3	1.0	20.3	100.0	8019
Kaduna	95.2	4.4	0.0	0.4	100.0	10418
Kano	76.6	23.2	0.0	0.2	100.0	13560
Katsina	84.0	15.5	0.0	0.5	100.0	10941
Kebbi	72.9	12.2	0.1	14.8	100.0	5391
Kogi	95.6	3.4	0.1	1.0	100.0	3152
Kwara	99.0	0.9	0.0	0.1	100.0	2709
Lagos	96.5	2.4	0.3	0.9	100.0	7576
Nasarawa	98.7	1.1	0.0	0.2	100.0	3792
Niger	78.9	20.7	0.0	0.4	100.0	7954
Ogun	87.8	12.0	0.0	0.1	100.0	2317
Ondo	92.1	7.0	0.1	0.7	100.0	3471
Osun	82.5	15.1	0.0	2.4	100.0	3257
Oyo	76.2	13.3	0.8	9.7	100.0	5508
Plateau	99.5	0.5	0.0	0.0	100.0	6581
Rivers	91.8	5.1	0.1	3.0	100.0	3729
Sokoto	67.1	31.5	0.0	1.4	100.0	5164
Taraba	72.7	27.0	0.1	0.2	100.0	2974
Yobe	70.2	29.7	0.0	0.1	100.0	6511
Zamfara	72.1	24.0	0.0	3.9	100.0	7663
FCT Abuja	97.6	1.8	0.0	0.5	100.0	1489

na: not applicable

Table DQ.6: Birth date and age reporting: Women

Percent distribution of women age 15-49 years by completeness of date of birth/age information, Nigeria, 2016-17

Completeness of reporting of date of birth and age

Year and month	Year of birth	Year of birth	Other/Don't	Number of women of birth and age only	Age only know/Missing
Total age 15-49 years					

Total	84.2	13.7	0.0	2.0	0.1	100.0	34376
State							
Abia	90.0	9.5	0.0	0.4	0.1	100.0	336
Adamawa	83.0	17.0	0.0	0.0	0.0	100.0	830
Akwa Ibom	98.4	1.6	0.0	0.0	0.0	100.0	834
Anambra	96.4	2.7	0.0	0.8	0.1	100.0	608
Bauchi	88.3	11.7	0.0	0.0	0.0	100.0	1559
Bayelsa	92.3	5.2	0.0	2.5	0.0	100.0	260
Benue	93.9	6.1	0.0	0.0	0.0	100.0	956
Borno	93.9	6.1	0.0	0.0	0.0	100.0	1984
Cross River	95.1	3.1	0.0	1.6	0.2	100.0	693
Delta	95.3	4.2	0.0	0.4	0.1	100.0	584
Ebonyi	92.7	5.3	0.0	1.7	0.3	100.0	400
Edo	95.5	3.3	0.0	1.1	0.1	100.0	494
Ekiti	90.0	10.0	0.0	0.0	0.0	100.0	216
Enugu	95.0	3.6	0.0	0.9	0.5	100.0	495
Gombe	71.5	26.4	0.0	1.1	1.0	100.0	562
Imo	98.9	0.9	0.0	0.0	0.2	100.0	606
Jigawa	50.5	24.1	0.0	24.4	0.9	100.0	1313
Kaduna	95.5	4.5	0.0	0.0	0.0	100.0	2076
Kano	64.2	35.6	0.0	0.1	0.0	100.0	2389
Katsina	78.0	21.3	0.0	0.6	0.0	100.0	1950
Kebbi	64.5	18.0	0.0	17.5	0.0	100.0	956
Kogi	97.6	2.3	0.0	0.1	0.0	100.0	632
Kwara	99.8	0.2	0.0	0.0	0.0	100.0	487
Lagos	98.2	1.5	0.0	0.1	0.1	100.0	1725
Nasarawa	98.9	1.0	0.0	0.0	0.1	100.0	738
Niger	75.3	24.4	0.0	0.3	0.1	100.0	1536
Ogun	91.6	8.4	0.0	0.0	0.0	100.0	474
Ondo	96.0	3.6	0.0	0.4	0.0	100.0	646
Osun	91.3	7.9	0.0	0.9	0.0	100.0	638
Oyo	81.2	12.7	0.0	5.0	1.1	100.0	1042
Plateau	99.4	0.6	0.0	0.0	0.0	100.0	1317
Rivers	97.3	1.7	0.0	0.8	0.2	100.0	803
Sokoto	54.2	44.1	0.0	1.6	0.1	100.0	912
Taraba	69.8	30.2	0.0	0.0	0.0	100.0	558
Yobe	69.7	30.3	0.0	0.0	0.0	100.0	1091
Zamfara	66.1	31.1	0.0	2.4	0.4	100.0	1337
FCT Abuja	98.5	1.4	0.0	0.0	0.0	100.0	340
Residence							
Urban	91.5	7.2	0.0	1.2	0.2	100.0	12373
Rural	80.1	17.4	0.0	2.4	0.1	100.0	22003

Table DQ.7: Birth date and age reporting: Men

Percent distribution of men age 15-49 years by completeness of date of birth/age information, Nigeria, 2016-17

Completeness of reporting of date of birth and age						
Year and month age 15-49 years	Year of birth	Year of birth	Othe /Missing	Number of men of birth and age only	Age only	Don't know Total

Total	86.7	11.8	0.0	1.4	0.0	100.0	15183
State							
Abia	95.21712538	4.8	0.0	0.0	0.0	100.0	142
Adamawa	84.0268588	16.0	0.0	0.0	0.0	100.0	389
Akwa Ibom	98.54064727	1.5	0.0	0.0	0.0	100.0	365
Anambra	95.68207872	4.0	0.0	0.3	0.0	100.0	241
Bauchi	90.09675583	9.9	0.0	0.0	0.0	100.0	681
Bayelsa	92.7048948	7.0	0.0	0.0	0.0	100.0	121
Benue	98.3504995	1.6	0.0	0.0	0.0	100.0	481
Borno	91.92279321	8.1	0.0	0.0	0.0	100.0	813
Cross River	97.70629872	2.3	0.0	0.0	0.0	100.0	275
Delta	98.64864865	1.4	0.0	0.0	0.0	100.0	258
Ebonyi	94.09907722	5.3	0.0	0.6	0.0	100.0	152
Edo	98.93315428	1.1	0.0	0.0	0.0	100.0	209
Ekiti	92.72910373	7.3	0.0	0.0	0.0	100.0	96
Enugu	99.22811294	0.8	0.0	0.0	0.0	100.0	190
Gombe	77.82586814	21.8	0.0	0.3	0.0	100.0	268
Imo	98.37382251	1.2	0.0	0.2	0.0	100.0	260
Jigawa	53.25776036	28.8	0.0	17.8	0.0	100.0	534
Kaduna	97.07797923	2.9	0.0	0.0	0.0	100.0	898
Kano	70.39435887	29.6	0.0	0.0	0.0	100.0	1028
Katsina	80.65497203	19.3	0.0	0.0	0.0	100.0	816
Kebbi	69.05567998	13.9	0.0	17.0	0.0	100.0	426
Kogi	98.15936062	1.8	0.0	0.0	0.0	100.0	275
Kwara	100.0	0.0	0.0	0.0	0.0	100.0	232
Lagos	99.39204985	0.5	0.0	0.1	0.0	100.0	808
Nasarawa	99.79072063	0.2	0.0	0.0	0.0	100.0	352
Niger	80.1621763	19.6	0.0	0.2	0.0	100.0	645
Ogun	92.16485078	7.8	0.0	0.0	0.0	100.0	206
Ondo	98.50547104	1.3	0.0	0.2	0.0	100.0	293
Osun	91.74911957	8.3	0.0	0.0	0.0	100.0	296
Oyo	83.29430927	12.6	0.0	4.1	0.0	100.0	490
Plateau	100.0	0.0	0.0	0.0	0.0	100.0	606
Rivers	95.73517158	4.3	0.0	0.0	0.0	100.0	436
Sokoto	53.82837872	46.2	0.0	0.0	0.0	100.0	358
Taraba	76.22242099	21.5	0.0	2.3	0.0	100.0	256
Yobe	69.14192262	30.9	0.0	0.0	0.0	100.0	537
Zamfara	76.39593909	20.4	0.0	2.9	0.0	100.0	613
FCT Abuja	99.80386038	0.2	0.0	0.0	0.0	100.0	139
Residence							
Urban	92.8	6.7	0.0	0.5	0.0	100.0	5627
Rural	83.1	14.9	0.0	2.0	0.0	100.0	9556

Table DQ.8: Birth date and age reporting: Under-5

Percent distribution children under 5 by completeness of date of birth/age information, Nigeria, 2016-17

	Completeness of reporting of date					Total	Number of under-5 children
	Year and month of birth	Year of birth age only	Year of birth and Age only		Other/Don't know/Missing		
Total	98.7	1.2	0.0	0.1	0.0	100.0	28085
State							
Abia							
Adamawa	99.2	0.8	0.0	0.0	0.0	100.0	224
Akwa Ibom	99.3	0.7	0.0	0.0	0.0	100.0	624
Anambra	99.9	0.0	0.0	0.0	0.0	100.0	600
Bauchi	99.3	0.7	0.0	0.0	0.0	100.0	383
Bayelsa	98.8	1.2	0.0	0.0	0.0	100.0	1524
Benue	98.9	1.0	0.0	0.1	0.0	100.0	177
Borno	98.6	1.4	0.0	0.0	0.0	100.0	697
Cross River	100.0	0.0	0.0	0.0	0.0	100.0	1851
Delta	99.9	0.1	0.0	0.0	0.0	100.0	393
Ebonyi	100.0	0.0	0.0	0.0	0.0	100.0	409
Edo	99.9	0.1	0.0	0.0	0.0	100.0	271
Ekiti	100.0	0.0	0.0	0.0	0.0	100.0	281
Enugu	99.3	0.7	0.0	0.0	0.0	100.0	125
Enugu	100.0	0.0	0.0	0.0	0.0	100.0	268
Gombe	99.7	0.3	0.0	0.0	0.0	100.0	534
Imo	99.8	0.2	0.0	0.0	0.0	100.0	405
Jigawa	98.7	0.2	0.0	1.1	0.0	100.0	1399
Kaduna	99.7	0.3	0.0	0.0	0.0	100.0	1607
Kano	99.6	0.3	0.0	0.0	0.0	100.0	2325
Katsina	99.8	0.2	0.0	0.0	0.0	100.0	2066
Kebbi	99.8	0.2	0.0	0.0	0.0	100.0	935
Kogi	99.8	0.2	0.0	0.0	0.0	100.0	372
Kwara	99.8	0.2	0.0	0.0	0.0	100.0	358
Lagos	100.0	0.0	0.0	0.0	0.0	100.0	358
Lagos	99.8	0.2	0.0	0.0	0.0	100.0	1054
Nasarawa	99.9	0.0	0.0	0.0	0.0	100.0	607
Niger	99.2	0.8	0.0	0.0	0.0	100.0	1270
Ogun	99.6	0.4	0.0	0.0	0.0	100.0	295
Ondo	99.3	0.7	0.0	0.0	0.0	100.0	408
Osun	99.3	0.7	0.0	0.0	0.0	100.0	342
Oyo	99.6	0.4	0.0	0.0	0.0	100.0	745
Plateau	100.0	0.0	0.0	0.0	0.0	100.0	1103
Rivers	99.7	0.3	0.0	0.0	0.0	100.0	412
Sokoto	99.7	0.3	0.0	0.0	0.0	100.0	412
Sokoto	98.8	1.2	0.0	0.0	0.0	100.0	975
Taraba	96.8	3.2	0.0	0.0	0.0	100.0	422
Yobe	80.9	19.1	0.0	0.0	0.0	100.0	1085
Zamfara	98.2	1.8	0.0	0.0	0.0	100.0	1328
FCT Abuja	99.7	0.3	0.0	0.0	0.0	100.0	209
Residence							
Urban	99.6	0.4	0.0	0.1	0.0	100.0	8553
Rural	98.3	1.6	0.0	0.1	0.0	100.0	19532

Table DQ.9: Birth date reporting: Children, adolescents and young people

Percent distribution of children, adolescents and young people age 5-24 years by completeness of date of birth information, Nigeria, 2016-17

	Completeness of reporting of month and year of birth					Number of children,		
	Year and month of	Year of birth	Month of birth missing	adolescents and young people birth Total	age 5-24 years	only	only	Both
Total	88.8	9.2	0.0	1.9	100.0			82769
State								
Abia	90.4	8.6	0.0	1.0	100.0			673
Adamawa	91.4	8.6	0.0	0.0	100.0			2127
Akwa Ibom	98.9	1.1	0.0	0.0	100.0			1613
Anambra	95.1	4.0	0.0	0.9	100.0			1213
Bauchi	94.2	5.8	0.0	0.0	100.0			4233
Bayelsa	93.4	5.6	0.0	1.0	100.0			579
Benue	96.6	3.4	0.0	0.0	100.0			2360
Borno	99.6	0.4	0.0	0.0	100.0			5482
Cross River	96.0	1.2	0.0	2.8	100.0			1445
Delta	97.6	2.3	0.0	0.1	100.0			1200
Ebonyi	95.6	2.9	0.0	1.5	100.0			966
Edo	96.6	3.4	0.0	0.0	100.0			921
Ekiti	90.8	9.1	0.0	0.1	100.0			430
Enugu	96.8	2.8	0.0	0.4	100.0			943
Gombe	85.6	14.2	0.2	0.1	100.0			1609
Imo	99.3	0.7	0.0	0.0	100.0			1236
Jigawa	66.4	15.2	0.3	18.2	100.0			3872
Kaduna	97.8	2.1	0.0	0.1	100.0			5106
Kano	84.1	15.8	0.0	0.0	100.0			6459
Katsina	86.8	12.6	0.0	0.6	100.0			5037
Kebbi	75.7	7.2	0.1	17.0	100.0			2551
Kogi	98.4	1.6	0.0	0.0	100.0			1437
Kwara	99.4	0.6	0.0	0.0	100.0			1179
Lagos	98.8	1.0	0.1	0.1	100.0			2759
Nasarawa	99.6	0.4	0.0	0.0	100.0			1814
Niger	78.1	21.6	0.0	0.3	100.0			3852
Ogun	95.2	4.8	0.0	0.0	100.0			972
Ondo	97.0	2.9	0.0	0.0	100.0			1329
Osun	89.5	9.4	0.0	1.1	100.0			1403
Oyo	87.1	8.0	0.6	4.3	100.0			2171
Plateau	99.9	0.1	0.0	0.0	100.0			2956
Rivers	95.3	2.6	0.0	2.0	100.0			1495
Sokoto	71.8	27.5	0.1	0.7	100.0			2336
Taraba	77.7	22.2	0.0	0.1	100.0			1385
Yobe	70.7	29.3	0.0	0.0	100.0			3258
Zamfara	75.6	21.1	0.0	3.3	100.0			3692
FCT Abuja	98.8	1.0	0.0	0.3	100.0			676
Residence								
Urban	93.5	5.5	0.0	1.0	100.0			27485
Rural	86.5	11.1	0.0	2.3	100.0			55284

Table DQ.10: Birth date reporting: First and last births

Percent distribution of first and last births to women age 15-49 years by completeness of date of birth, Nigeria, 2016-17

Completeness of reporting of date of birth

	Date of first birth					Date of last birth					Total births
	Year	Year	Year and of	Completed	Number	Year and of	Number	Year and of	Number		
	month birth only know/	births since Other/Don't	of first month of birth	Other/Don't	Number of last of birth only first birth only know/	Month	Year and of	Number of last of birth only first birth only know/	Missing		
Total	91.0	6.9	1.0	1.1	100.0	24607	95.3	3.8	0.8	100.0	21032
State											
Abia	96.3	3.2	0.0	0.5	100.0	215	95.9	3.4	0.6	100.0	174
Adamawa	93.4	5.9	0.0	0.6	100.0	580	97.3	2.7	0.0	100.0	492
Akwa Ibom	99.6	0.4	0.0	0.0	100.0	550	100.0	0.0	0.0	100.0	434
Anambra	99.6	0.4	0.0	0.0	100.0	347	98.7	0.8	0.5	100.0	286
Bauchi	90.6	9.4	0.0	0.0	100.0	1240	96.1	3.9	0.0	100.0	1065
Bayelsa	98.0	1.7	0.0	0.3	100.0	181	98.7	1.0	0.3	100.0	148
Benue	98.4	1.5	0.0	0.1	100.0	656	98.8	0.7	0.5	100.0	561
Borno	100.0	0.0	0.0	0.0	100.0	1415	99.5	0.1	0.4	100.0	1274
Cross River	97.8	0.7	1.5	0.0	100.0	469	99.4	0.2	0.4	100.0	379
Delta	97.3	2.3	0.3	0.1	100.0	388	99.2	0.5	0.3	100.0	335
Ebonyi	98.4	1.4	0.0	0.3	100.0	234	97.4	2.3	0.2	100.0	195
Edo	97.4	1.5	0.9	0.2	100.0	308	96.5	2.3	1.2	100.0	252
Ekiti	93.6	5.0	0.0	1.5	100.0	151	98.3	1.0	0.7	100.0	126
Enugu	98.8	0.4	0.0	0.9	100.0	246	100.0	0.0	0.0	100.0	206
Gombe	85.7	10.7	0.8	2.8	100.0	427	92.1	6.0	1.9	100.0	368
Imo	99.6	0.4	0.0	0.0	100.0	369	99.7	0.3	0.0	100.0	306
Jigawa	68.6	12.0	12.2	7.3	100.0	1042	90.1	3.6	6.4	100.0	941
Kaduna	97.6	2.3	0.0	0.1	100.0	1451	99.3	0.7	0.0	100.0	1215
Kano	83.2	14.5	0.2	2.2	100.0	1823	93.8	5.5	0.7	100.0	1624
Katsina	90.0	9.1	0.1	0.7	100.0	1607	94.7	5.0	0.3	100.0	1379
Kebbi	77.1	6.1	10.6	6.1	100.0	717	90.9	3.7	5.4	100.0	635
Kogi	91.5	1.7	0.4	6.4	100.0	381	96.5	0.8	2.7	100.0	319
Kwara	99.8	0.0	0.0	0.2	100.0	358	99.8	0.2	0.0	100.0	303
Lagos	99.4	0.4	0.0	0.2	100.0	1128	99.9	0.0	0.1	100.0	880
Nasarawa	99.8	0.1	0.0	0.1	100.0	530	100.0	0.0	0.0	100.0	459
Niger	84.1	15.6	0.1	0.1	100.0	1161	90.3	9.6	0.1	100.0	1014
Ogun	96.6	3.4	0.0	0.0	100.0	339	97.6	2.4	0.0	100.0	286

Ondo	98.8	0.8	0.0	0.4	100.0	453	99.3	0.7	0.0	100.0	369
Osun	94.3	4.7	0.4	0.5	100.0	413	97.6	2.1	0.3	100.0	360
Oyo	91.7	4.6	1.6	2.2	100.0	765	97.8	1.4	0.9	100.0	666
Plateau	99.6	0.4	0.0	0.0	100.0	893	100.0	0.0	0.0	100.0	768
Rivers	99.6	0.4	0.0	0.0	100.0	469	99.1	0.9	0.0	100.0	359
Sokoto	85.0	13.9	0.2	0.9	100.0	735	90.2	8.5	1.3	100.0	635
Taraba	83.2	15.7	0.4	0.7	100.0	402	89.4	10.0	0.6	100.0	340
Yobe	70.8	28.5	0.1	0.7	100.0	846	74.2	25.5	0.3	100.0	733
Zamfara	83.5	15.0	0.1	1.3	100.0	1108	91.7	7.6	0.7	100.0	969
FCT Abuja	98.4	1.1	0.0	0.5	100.0	215	99.1	0.5	0.4	100.0	174

Residence

Urban 95.7 3.4 0.4 0.5 100.0 7941 97.6 2.0 0.4 100.0 6741 Rural 88.7 8.6 1.3 1.4 100.0 16666 94.3 4.7 1.0 100.0 14292

Table DQ.11: Completeness of reporting

Percentage of observations that are missing information for selected questions and indicators, Nigeria, 2016-17

Questionnaire and type of missing information	Reference group	Percent with missing/incomplete information ^a	Number of cases
Household			
Salt test result	All households interviewed that have salt	.0	33901
Starting time of interview	All households interviewed	.0	33901
Ending time of interview	All households interviewed	.0	33901

Women			
Date of first marriage/union	All ever married women age 15-49		
Only month		16.5	25856
Both month and year		11.2	25856
Age at first marriage/union	All ever married women age 15-49 with year of first marriage not known	2.8	25856
Age at first intercourse	All women age 15-24 who have ever had sex	1.6	7224
Time since last intercourse	All women age 15-24 who have ever had sex	2.3	7224
Starting time of interview	All women interviewed	.0	34376
Ending time of interview	All women interviewed	.0	34376
Men			
Date of first marriage/union	All ever married men age 15-49		
Only month		14.2	7434
Both month and year		3.3	7434
Age at first marriage/union	All ever married men age 15-49 with year of first marriage not known	1.3	7434
Age at first intercourse	All men age 15-24 who have ever had sex	1.7	1477
Time since last intercourse	All men age 15-24 who have ever had sex	3.7	1477
Starting time of interview	All men interviewed	.0	15183
Ending time of interview	All men interviewed	.0	15183
Under-5			
Starting time of interview	All under-5 children	.0	28085
Ending time of interview	All under-5 children	.0	28085
^a Includes "Don't know" responses			

Table DQ.12: Completeness of information for anthropometric indicators: Underweight

Percent distribution of children under 5 by completeness of information on date of birth and weight, Nigeria, 2016-17

Reason for exclusion from analysis		Percent of
Valid weight cases excluded from analysis	Weight Incomplete	Percent of Total analysis children under 5
Weight not measured	Weight not measured	Percent of Total analysis children under 5
children and date of birth	children and date of birth	Percent of Total analysis children under 5
not date of birth	not date of birth	Percent of Total analysis children under 5
and incomplete date of birth	and incomplete date of birth	Percent of Total analysis children under 5
Flagged (outliers)	Flagged (outliers)	Percent of Total analysis children under 5

Total	97.6	0.7	1.2	0.1	0.5	100.0	2.4	28085
Age								
<6 months	98.3	0.6	0.6	0.0	0.5	100.0	1.7	2723
6-11 months	98.9	0.4	0.3	0.0	0.4	100.0	1.1	2640
12-23 months	98.3	0.4	1.1	0.1	0.1	100.0	1.7	5535
24-35 months	97.3	0.9	1.2	0.1	0.4	100.0	2.7	5514
36-47 months	97.8	0.7	1.2	0.1	0.3	100.0	2.2	5818
48-59 months	95.9	0.8	2.0	0.1	1.2	100.0	4.1	5856

Table DQ.13: Completeness of information for anthropometric indicators: Stunting

Percent distribution of children under 5 by completeness of information on date of birth and length or height, Nigeria, 2016-17

	Reason for exclusion from analysis					100.0	Percent of children	
	Valid length/height	Length/Height Incomplete	Height not measured, and date of birth (outliers)	Length/Height date of incomplete date	Flagged cases excluded from Total analysis children under 5			
Total	97.2	0.7	1.2	0.1	0.9	100.0	2.8	28085
Age								
<6 months	98.2	0.7	0.6	0.0	0.5	100.0	1.8	2723
6-11 months	98.5	0.4	0.3	0.0	0.8	100.0	1.5	2640
12-23 months	97.8	0.4	1.1	0.1	0.6	100.0	2.2	5535
24-35 months	96.9	0.9	1.2	0.1	0.8	100.0	3.1	5514
36-47 months	97.4	0.8	1.1	0.1	0.6	100.0	2.6	5818
48-59 months	95.6	0.8	2.0	0.1	1.6	100.0	4.4	5856

Table DQ.14: Completeness of information for anthropometric indicators: Wasting

Percent distribution of children under 5 by completeness of information on weight and length or height, Nigeria, 2016-17

	Reason for exclusion from analysis					100.0	Percent of children	
	Valid weight and not measured (outliers)	Weight	Length/Height not measured	Weight and length/height not measured	Weight and length/height not measured			
Total	98.4	0.0	0.1	0.7	0.8	100.0	1.6	28085
Age								
<6 months	97.8	0.0	0.1	0.6	1.5	100.0	2.2	2723
6-11 months	99.2	0.0	0.0	0.4	0.4	100.0	0.8	2640
12-23 months	99.2	0.0	0.0	0.5	0.3	100.0	0.8	5535
24-35 months	98.4	0.1	0.1	0.9	0.5	100.0	1.6	5514
36-47 months	98.5	0.0	0.2	0.7	0.5	100.0	1.5	5818
48-59 months	97.5	0.1	0.0	0.9	1.5	100.0	2.5	5856

Table DQ.15: Heaping in anthropometric measurements

Distribution of weight and height/length measurements by digits reported for the decimal points, Nigeria, 2016-17

Weight	Height or length
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	Number		Percent		Number
		Percent		Percent	
Total		27781		100.0	27795
	100.0				
Digits0				2949	10.6
3378	12.2				
1		2756	9.9	2655	9.6
2		3060	11.0	3425	12.3
3		2722	9.8	3243	11.7
4		2543	9.2	2918	10.5
5		2753	9.9	3212	11.6
6		2775	10.0	2647	9.5
7		2728	9.8	2491	9.0
8		2796	10.1	2139	7.7
9		2698	9.7	1688	6.1
0 or 5		5702		20.5	6590
	23.7				

Table DQ.16: Observation of birth certificates						
Percent distribution of children under 5 by presence of birth certificates and percentage of birth certificates seen, Nigeria, 2016-17						
	Child has birth certificate			Percentage of birth		
	certificates seen by		Child does	Number of		
	Seen by the children under age 5	Not seen by the interviewer (1)	not have birth certificate (2)	Missing/ Don't know	the interviewer	Total
	(1)/(1+2)*100		age 5			
Total	100.0	53.3	23.0	20.2	56.3	0.4
			28085			
Residence						
Urban	0.5	100.0	58.8	38.8	27.2	33.6
			8553			
Rural	100.0		16.2	17.1	66.3	0.4
			48.6		19532	
Child's age						
0-5 months	100.0		18.0	12.6	69.4	0.0
			58.7		2723	
6-11 months	100.0		23.6	14.2	61.9	0.3
			62.5		2640	
12-23 months	100.0		25.3	19.9	54.4	0.5
			55.9		5535	
24-35 months	100.0		24.0	21.6	54.1	0.2
			52.6		5514	

36-47 months	22.1	22.5	54.7	0.7
100.0	49.6	5818		
48-59 months	23.1	22.9	53.4	0.5
100.0	50.2	5856		

Table DQ.16: Observation of birth certificates (continued)

Percent distribution of children under 5 by presence of birth certificates, and percentage of birth certificates seen, Nigeria, 2016-17

	Child has birth certificate				Percentage of birth certificates seen by			Number of interviewer (2)
	Child does		Missing/ Don't know	Total (1)/(1+2)*100	Total (1)	Interviewer (1)	Interviewer (2)	
	Seen by the certificate	Not seen by the Don't know						
Total	23.0	20.2	56.3	0.4	100.0	53.3	28085	
State								
Abia	28.8	45.2	25.5	0.4	100.0	38.9	224	
Adamawa	36.8	23.9	38.6	0.6	100.0	60.6	624	
Akwa Ibom	30.2	26.6	42.9	0.3	100.0	53.2	600	
Anambra	70.8	21.9	6.9	0.5	100.0	76.4	383	
Bauchi	15.3	7.8	76.9	0.0	100.0	66.3	1524	
Bayelsa	17.1	26.6	56.4	0.0	100.0	39.1	177	
Benue	22.4	15.7	61.0	1.0	100.0	58.8	697	
Borno	22.8	26.3	50.9	0.1	100.0	46.4	1851	
Cross River	19.1	24.3	56.7	0.0	100.0	43.9	393	
Delta	27.3	33.1	39.2	0.4	100.0	45.2	409	
Ebonyi	33.8	38.9	26.7	0.6	100.0	46.5	271	
Edo	55.6	29.3	14.7	0.2	100.0	65.5	281	
Ekiti	35.7	38.2	26.2	0.0	100.0	48.3	125	
Enugu	38.5	34.6	26.1	0.5	100.0	52.7	268	
Gombe	14.4	12.8	71.6	1.1	100.0	53.0	534	
Imo	30.5	33.9	35.2	0.3	100.0	47.4	405	
Jigawa	8.1	14.6	77.2	0.1	100.0	35.7	1399	
Kaduna	26.4	26.0	47.3	0.3	100.0	50.4	1607	
Kano	19.2	12.4	68.0	0.3	100.0	60.7	2325	
Katsina	28.7	14.5	56.5	0.2	100.0	66.4	2066	
Kebbi	15.8	11.8	72.2	0.1	100.0	57.4	935	
Kogi	28.9	29.8	41.3	0.0	100.0	49.2	372	
Kwara	30.7	32.6	36.5	0.1	100.0	48.4	358	
Lagos	47.9	32.0	18.7	1.3	100.0	59.9	1054	
Nasarawa	19.1	15.9	63.8	1.1	100.0	54.5	607	
Niger	16.8	11.2	71.4	0.6	100.0	60.0	1270	
Ogun	29.7	27.7	42.1	0.5	100.0	51.7	295	
Ondo	28.2	33.1	38.4	0.3	100.0	46.0	408	
Osun	31.8	35.6	32.0	0.6	100.0	47.2	342	
Oyo	35.3	26.3	37.2	1.3	100.0	57.3	745	
Plateau	23.3	19.1	56.3	1.3	100.0	54.9	1103	
Rivers	30.9	32.9	35.9	0.3	100.0	48.4	412	
Sokoto	5.7	22.2	71.7	0.5	100.0	20.3	975	
Taraba	10.1	18.4	70.1	1.4	100.0	35.4	422	
Yobe	6.8	7.5	85.5	0.2	100.0	47.9	1085	
Zamfara	7.4	16.1	76.5	0.1	100.0	31.5	1328	
FCT Abuja	46.5	23.6	29.9	0.0	100.0	66.3	209	

Table DQ.17: Observation of vaccination cards

Percent distribution of children age 0-35 months by presence of a vaccination card, and the percentage of vaccination cards seen by the interviewers, Nigeria, 2016-17

	Child has vaccination card			Percentage of vaccination cards seen by the			Number of children age 0-35 months
	vaccination cards seen by the		Missing/ Don't know	Total (1)	Interviewer (1)	Interviewer (2)	
	Seen by the interviewer (2)	Not seen by the interviewer (2)					

Total	28.2	19.9	0.3	100.0	58.7	16411
State						
Abia	41.8	39.3	0.0	100.0	51.6	138
Adamawa	39.3	17.5	0.3	100.0	69.2	371
Akwa Ibom	46.7	28.7	0.0	100.0	62.0	356
Anambra	42.6	45.7	0.0	100.0	48.3	216
Bauchi	20.5	21.4	0.0	100.0	49.0	900
Bayelsa	41.2	22.7	0.0	100.0	64.4	98
Benue	41.6	20.4	0.0	100.0	67.1	378
Borno	28.8	32.2	0.0	100.0	47.2	1034
Cross River	49.3	37.3	1.0	100.0	56.9	230
Delta	53.5	22.5	0.7	100.0	70.4	243
Ebonyi	46.4	29.3	0.0	100.0	61.3	166
Edo	50.2	41.7	2.1	100.0	54.6	165
Ekiti	68.6	19.2	0.0	100.0	78.1	72
Enugu	50.4	34.0	0.9	100.0	59.7	160
Gombe	26.5	20.5	0.0	100.0	56.3	321
Imo	47.0	40.5	0.0	100.0	53.7	240
Jigawa	12.1	13.5	0.2	100.0	47.4	840
Kaduna	27.3	20.2	0.2	100.0	57.5	920
Kano	20.0	10.2	0.5	100.0	66.2	1396
Katsina	17.8	5.5	0.7	100.0	76.2	1247
Kebbi	11.4	7.9	0.0	100.0	59.0	536
Kogi	40.0	28.7	0.0	100.0	58.2	199
Kwara	20.3	46.8	0.0	100.0	30.3	192
Lagos	66.4	26.7	0.0	100.0	71.3	642
Nasarawa	30.6	17.9	0.7	100.0	63.1	347
Niger	20.9	11.1	0.0	100.0	65.3	772
Ogun	39.6	24.1	0.0	100.0	62.2	171
Ondo	43.8	39.8	0.7	100.0	52.4	244
Osun	49.2	36.4	0.0	100.0	57.5	214
Oyo	52.4	20.9	0.2	100.0	71.5	425
Plateau	29.1	27.4	0.0	100.0	51.5	613
Rivers	45.1	36.4	0.6	100.0	55.4	244
Sokoto	6.5	9.6	0.0	100.0	40.4	547
Taraba	19.8	16.6	0.4	100.0	54.4	249
Yobe	6.6	7.9	0.1	100.0	45.7	608
Zamfara	5.8	9.2	0.5	100.0	38.5	789
FCT Abuja	56.5	27.0	0.0	100.0	67.7	129
Residence						
Urban	41.0	26.6	0.4	100.0	60.6	4981
Rural	22.7	17.0	0.2	100.0	57.2	11430
Child's age						
0-5 months	34.1	9.5	0.1	100.0	78.3	2723
6-11 months	37.3	12.2	0.1	100.0	75.3	2640
12-23 months	29.6	21.4	0.3	100.0	58.1	5535
24-35 months	19.6	27.2	0.3	100.0	41.9	5514

Table DQ.18: Observation of women's health cards

Percent distribution of women with a live birth in the last 2 years by presence of a health card, and the percentage of health cards seen by the interviewers, Nigeria, 2016-17

Woman has health card	Percent of health cards seen by the Number of women
Woman does _____	

not have health Seen by the Not seen by the interviewer with a live birth in card interviewer (1) interviewer (2) DK/Missing Total (1)/(1+2)*100 the last two years							
Total	48.2	16.4	35.1	0.4	100.0	31.9	11547
State							
Abia	43.9	19.2	36.3	0.7	100.0	34.6	99
Adamawa	26.8	33.0	38.3	1.8	100.0	46.3	264
Akwa Ibom	28.8	40.1	31.1	0.0	100.0	56.4	228
Anambra	10.6	39.1	50.3	0.0	100.0	43.7	140
Bauchi	61.9	13.0	24.8	0.3	100.0	34.4	618
Bayelsa	54.5	6.8	38.7	0.0	100.0	15.0	73
Benue	57.8	11.0	30.5	0.8	100.0	26.5	271
Borno	36.5	14.6	48.9	0.0	100.0	23.0	692
Cross River	22.2	31.5	46.3	0.0	100.0	40.5	162
Delta	28.6	24.0	47.4	0.0	100.0	33.6	173
Ebonyi	26.6	29.6	43.1	0.6	100.0	40.7	111
Edo	35.5	21.5	41.3	1.7	100.0	34.3	101
Ekiti	29.0	21.9	46.5	2.6	100.0	32.0	54
Enugu	30.2	11.0	58.3	0.4	100.0	15.9	105
Gombe	45.7	12.0	39.2	3.0	100.0	23.5	236
Imo	25.5	23.8	50.2	0.5	100.0	32.2	164
Jigawa	39.7	11.8	47.6	0.8	100.0	19.9	595
Kaduna	37.6	23.6	38.9	0.0	100.0	37.7	663
Kano	60.1	14.4	24.9	0.6	100.0	36.6	1038
Katsina	65.6	15.3	18.8	0.3	100.0	44.9	916
Kebbi	67.6	6.0	26.0	0.4	100.0	18.6	398
Kogi	35.0	15.1	48.2	1.8	100.0	23.8	133
Kwara	43.9	16.3	39.8	0.0	100.0	29.1	115
Lagos	17.5	30.2	52.3	0.0	100.0	36.6	429
Nasarawa	47.5	11.9	40.4	0.2	100.0	22.7	244
Niger	71.4	11.4	17.2	0.0	100.0	39.9	527
Ogun	34.9	10.2	54.5	0.3	100.0	15.8	132
Ondo	18.2	36.4	45.4	0.0	100.0	44.5	163
Osun	23.8	8.4	67.8	0.0	100.0	11.0	161
Oyo	38.7	9.4	51.9	0.0	100.0	15.4	322
Plateau	54.6	14.7	30.7	0.0	100.0	32.4	392
Rivers	38.3	13.7	48.0	0.0	100.0	22.2	163
Sokoto	64.7	5.9	29.5	0.0	100.0	16.6	409
Taraba	61.8	12.5	25.4	0.4	100.0	33.0	173
Yobe	62.1	14.8	22.9	0.2	100.0	39.3	410
Zamfara	64.1	12.8	23.1	0.0	100.0	35.7	583
FCT Abuja	33.1	14.7	52.0	0.2	100.0	22.0	89
Residence							
Urban	30.4	23.2	46.1	0.4	100.0	33.5	3426
Rural	55.7	13.6	30.4	0.4	100.0	30.8	8121
Age							
15-24	52.6	16.0	31.3	0.1	100.0	33.8	3289
25-34	45.7	17.4	36.5	0.4	100.0	32.2	5561
35-49	48.0	14.9	36.6	0.5	100.0	29.0	2697

Table DQ.19: Observation of bednets and places for handwashing

Percentage of bednets in all households observed by the interviewers, and percent distribution of places for handwashing observed by the interviewers in all interviewed households, Nigeria, 2016-17

Place for handwashing								
	Percentage of permission households interviewer	Not observed bednets	Total Not observed	Number of observed bednets	Total Not in the yard to see	Number of observed by Other reason	of dwelling, plot or	Total interviewed
Total	76.7	54839	22.5	7.8	3.0	1.4	100.0	33901
State								
Abia	47.4	664	6.0	3.9	3.1	0.3	100.0	472
Adamawa	76.3	1179	23.6	15.0	2.5	1.2	100.0	735
Akwa Ibom	70.5	1208	17.0	12.2	4.2	0.2	100.0	844
Anambra	75.3	772	10.5	0.8	3.6	0.2	100.0	719
Bauchi	69.7	3336	28.4	1.6	1.7	0.2	100.0	1384
Bayelsa	48.6	315	10.1	7.7	1.7	0.6	100.0	308
Benue	82.5	2303	15.7	17.3	13.7	12.9	100.0	987
Borno	62.1	3532	30.4	16.8	1.3	0.1	100.0	1493
Cross River	84.1	1413	8.4	0.4	0.6	0.1	100.0	778
Delta	62.6	624	20.5	16.0	3.7	2.3	100.0	740
Ebonyi	95.1	1036	13.7	9.5	2.8	0.2	100.0	535
Edo	64.8	281	36.2	1.8	1.1	0.1	100.0	654
Ekiti	51.2	397	6.4	1.7	1.6	0.5	100.0	351
Enugu	88.3	357	14.7	0.2	1.1	0.0	100.0	610
Gombe	69.4	1271	36.6	13.7	3.1	3.3	100.0	529
Imo	69.2	785	20.4	1.9	2.1	0.4	100.0	796
Jigawa	84.2	3110	46.9	10.6	0.9	0.1	100.0	1147
Kaduna	71.1	2332	24.6	2.0	2.3	1.8	100.0	1646
Kano	82.7	4306	43.6	3.1	3.8	1.0	100.0	1894
Katsina	97.4	3680	31.9	1.2	3.8	0.8	100.0	1705
Kebbi	90.7	1784	10.2	15.5	3.1	1.1	100.0	838
Kogi	87.2	653	13.0	4.9	2.0	2.5	100.0	649
Kwara	62.4	220	15.6	20.6	3.2	0.4	100.0	639
Lagos	62.3	1294	31.9	1.4	3.6	0.1	100.0	1974
Nasarawa	74.8	1144	4.4	1.3	0.4	1.3	100.0	630
Niger	86.8	2286	26.6	14.7	2.4	0.6	100.0	1211
Ogun	60.6	445	10.7	5.7	2.6	0.6	100.0	608
Ondo	61.9	843	21.7	0.7	1.6	3.4	100.0	1025
Osun	61.5	754	15.8	0.8	0.7	0.4	100.0	916
Oyo	83.9	2391	18.7	0.4	1.0	2.6	100.0	1470
Plateau	75.7	1883	13.8	11.8	3.1	1.3	100.0	1051
Rivers	58.6	700	19.1	4.2	3.9	0.2	100.0	957
Sokoto	48.0	1524	4.1	31.6	10.9	5.3	100.0	820
Taraba	61.6	609	12.0	39.8	4.2	0.7	100.0	527
Yobe	75.2	2084	30.1	2.9	2.5	1.3	100.0	914
Zamfara	91.4	3152	12.6	17.3	2.7	0.5	100.0	1078
FCT Abuja	63.6	173	24.7	7.5	4.1	0.9	100.0	270
Residence								
Urban	72.5	16131	28.6	5.2	3.2	0.9	100.0	12421
Rural	78.4	38708	18.9	9.3	2.9	1.6	100.0	21480
Wealth index quintile								
Poorest	81.0	11768	19.1	12.3	3.5	1.9	100.0	5592
Second	80.2	12007	18.0	11.3	3.5	2.4	100.0	6328
Middle	76.9	11318	17.4	8.2	2.1	1.3	100.0	6897
Fourth	72.8	10420	20.0	5.9	2.4	0.9	100.0	7259
Richest	70.9	9326	35.3	3.3	3.8	0.6	100.0	7825

Table DQ.20: Respondent to the under-5 questionnaire

Distribution of children under five by respondent to the under-5 questionnaire, Nigeria, 2016-17							
	Mother in the household	Mother not in the household and primary caretaker identified:			Total	Number of children under 5	
		Father	Other adult female	Other adult male			
Total	95.5	0.57	3.40	.52	100.0	31299	
Age							
0	99.1	0.10	0.71	0.06	100.0	6101	
1	97.9	0.31	1.55	0.21	100.0	6139	
2	95.1	0.74	3.69	0.47	100.0	6145	
3	93.3	0.97	5.04	0.65	100.0	6495	
4	92.3	0.68	5.80	1.18	100.0	6418	

Table DQ.22: School attendance by single age

Distribution of household population age 5-24 years by educational level and and grade attended in the current (or most recent) school year, Nigeria, 2016-17

Currently attending		Number of
Not Missing/		

Sex ratio (number of males per 100 females) among children ever born (at birth), children living, and deceased children, by age of women, Nigeria, 2016-17

	Children Ever Born			Children Living			Children Deceased			
	Daughters	Sons	Sex ratio at birth	Daughters	Sons	Sex ratio	Daughters women	birth	Sons	
Total	53800	50989	1.06	45931	44394	1.03	7869	6595	1.19	34376
Age										
15-19	731	710	1.03	618	638	.97	113	72	1.57	6822
20-24	3850	3649	1.06	3381	3277	1.03	469	372	1.26	5816
25-29	8135	7791	1.04	7126	6962	1.02	1009	830	1.22	5915
30-34	11050	10322	1.07	9625	9131	1.05	1425	1192	1.20	5390
35-39	11273	10916	1.03	9525	9493	1.00	1748	1423	1.23	4339
40-44	10610	10038	1.06	9014	8641	1.04	1596	1397	1.14	3571
45-49	8150	7561	1.08	6641	6252	1.06	1509	1310	1.15	2524

Table DQ.24: Births by periods preceding the survey

Number of births, sex ratio at birth, and period ratio by periods preceding the survey, according to living, deceased, and total children (imputed), as reported in the birth histories, Nigeria, 2016-17

	Number of births			Percent with complete birth ^a			Sex ratio at birth ^b			Period ratio ^c			date
	Living	Deceased	Total	Living	Deceased	Total	Living	Deceased	Total	Living	Deceased	Total	
Total	90266	14523	104789	92.2	77.5	90.2	103.5	118.7	105.5	na	na	na	
Years													
0	5475	299	5775	98.5	86.0	97.9	100.1	130.5	101.4	na	na	na	
1	5540	421	5962	97.2	86.9	96.5	99.1	132.6	101.1	101.9	87.9	100.8	
2	5394	660	6054	95.8	81.3	94.2	108.3	110.3	108.5	96.5	117.3	98.4	
3	5635	704	6339	95.6	81.9	94.1	98.6	99.7	98.8	102.7	103.2	102.8	
4	5578	705	6283	95.0	79.8	93.3	102.3	129.5	105.0	103.6	100.9	103.3	
5	5131	693	5824	91.7	78.9	90.1	103.7	112.2	104.7	94.5	91.0	94.0	
6	5287	818	6105	92.3	76.2	90.1	98.3	116.6	100.6	104.7	121.8	106.7	

7	4972	650	5622	90.8	75.1	88.9	109.0	123.4	110.6	96.7	83.5	95.0
8	4996	739	5735	91.0	78.9	89.4	97.3	105.8	98.4	114.7	117.0	115.0
9	3738	614	4352	92.4	75.5	90.0	105.6	125.4	108.1	17.2	13.7	16.6
10+	38520	8219	46739	89.7	76.1	87.3	105.6	120.4	108.0	na	na	na
Five0-4-year periods	27622			2789	30411	96.4	82.4	95.1	101.6	117.2	102.9	na
	na	na										
5-9	24124	3515	27639	91.6	77.0	89.7	102.5	116.0	104.1	na	na	na
10-14	18469	3001	21470	90.9	78.0	89.1	99.1	130.4	103.0	na	na	na
15-19	10775	2547	13323	89.3	75.8	86.7	111.8	116.4	112.7	na	na	na
20+	9276	2670	11946	87.7	74.4	84.8	112.1	113.6	112.5	na	na	na

na: not applicable ^a Both month and year of birth given. The inverse of the percent reported is the percent with incomplete and therefore imputed date of birth

^b $(B_m/B_f) \times 100$, where B_m and B_f are the numbers of male and female births, respectively

^c $(2 \times B_t / (B_{t-1} + B_{t+1})) \times 100$, where B_t is the number of births in year t preceding the survey

Table DQ.25: Reporting of age at death in days

Distribution of reported deaths under one month of age by age at death in days and the percentage of neonatal deaths reported to occur at ages 0–6 days, by 5-year periods preceding the survey (imputed), Nigeria, 2016-17

Number of years preceding the survey				Total
0–4	5–9	10–14	15–19	(0–19)

Age at death (days)					
0	297	201	143	135	776
1	299	228	170	82	779
2	113	93	87	63	356
3	78	89	84	52	304
4	64	51	49	39	204
5	47	51	33	24	155
6	36	37	37	26	136
7	58	43	25	31	156
8	20	34	14	9	77
9	18	27	17	19	80
10	24	18	17	11	70
11	3	4	4	6	17
12	18	5	15	6	43
13	2	13	12	7	35
14	23	36	26	44	130
15	6	8	19	9	42
16	3	9	4	2	17
17	5	5	3	1	14
18	2	1	2	6	12
19	2	2	2	6	12
20	6	10	13	11	40
21	18	17	10	11	56
22	1	1	2	4	7
23	5	5	0	11	
24	2	3	1	2	7
25	25	6	3	5	4
26	1	3	0	3	6
27	4	1	1	0	7
28	2	1	2	3	8
29	2	4	1	0	7
30	30	5	5	8	10
31	28				
Total 0–30 days			1,169	1,008	805
					627
					3,609
Percent early neonatal ^a		79.8	74.5	<u>75.0</u>	<u>67.3</u>
					75.1

^a Deaths during the first 7 days (0-6), divided by deaths during the first month (0-30 days)

Table DQ.26: Reporting of age at death in months					
Distribution of reported deaths under two years of age by age at death in months and the percentage of infant deaths reported to occur at age under one month, for the 5-year periods of birth preceding the survey (imputed), Nigeria, 201617					
	Number of years preceding the survey				Total (0-19)
	0–4	5–9	10–14	15–19	

Age at death (months)						
0		1,169	1,008	805	627	3,609
1		115	133	106	77	430
2		112	126	90	107	436
3		91	108	89	82	371
4		62	100	55	52	269
5		68	63	56	57	244
6		67	84	60	48	259
7		66	78	62	54	259
8		68	82	72	53	275
9		82	92	72	51	297
10		36	61	47	37	180
11		47	47	50	51	195
12		138	189	174	101	603
13		24	24	24	10	82
14		18	25	26	22	92
15		19	26	37	22	104
16		16	17	10	9	53
17		16	31	21	10	78
18		22	42	52	28	143
19		20	16	13	11	61
20		17	10	13	16	56
21		8	8	6	5	27
22		1	8	6	10	25
23		6	14	14	5	39
Total 0–11 months 1,984 1,981 1,562 1,297 6,824 Percent neonatal ^b 59.0 50.9 <u>51.5</u> 48.3 52.9						
^a Includes deaths under one month reported in days						
^b Deaths under one month, divided by deaths under one year						

Appendix E. Nigeria, 2016-17 Indicators: Numerators and Denominators

MICS INDICATOR ^[M]		Module	Numerator	Denominator	MDG Indicator Reference
MORTALITY					
1.1	Neonatal mortality rate	BH	Probability of dying within the first month of life		
1.2	Infant mortality rate	CM - BH	Probability of dying between birth and the first birthday		MDG 4.2
1.3	Post-neonatal mortality rate	BH	Difference between infant and neonatal mortality rates		
1.4	Child mortality rate	BH	Probability of dying between the first and the fifth birthdays		
1.5	Under-five mortality rate	CM - BH	Probability of dying between birth and the fifth birthday		MDG 4.1

NUTRITION

2.1a 2.1b	Underweight prevalence	AN	Number of children under age 5 who fall below (a) minus two standard deviations (moderate and severe) (b) minus three standard deviations (severe) of the median weight for age of the WHO standard	Total number of children under age 5	MDG 1.8
2.2a 2.2b	Stunting prevalence	AN	Number of children under age 5 who fall below (a) minus two standard deviations (moderate and severe) (b) below minus three standard deviations (severe) of the median height for age of the WHO standard	Total number of children under age 5	
2.3a 2.3b	Wasting prevalence	AN	Number of children under age 5 who fall below (a) minus two standard deviations (moderate and severe) (b) minus three standard deviations (severe) of the median weight for height of the WHO standard	Total number of children under age 5	

2.4	Overweight prevalence	AN	Number of children under age 5 who are above two standard deviations of the median weight for height of the WHO standard	Total number of children under age 5	
2.5	Children ever breastfed	MN	Number of women with a live birth in the last 2 years who breastfed their last liveborn child at any time	Total number of women with a live birth in the last 2 years	
2.6	Early initiation of breastfeeding	MN	Number of women with a live birth in the last 2 years who put their last newborn to the breast within one hour of birth	Total number of women with a live birth in the last 2 years	
2.7	Exclusive breastfeeding under 6 months	BD	Number of infants under 6 months of age who are exclusively breastfed	Total number of infants under 6 months of age	
2.8	Predominant breastfeeding under 6 months	BD	Number of infants under 6 months of age who received breast milk as the predominant source of nourishment during the previous day	Total number of infants under 6 months of age	

2.9	Continued breastfeeding at 1 year	BD	Number of children age 12-15 months who received breast milk during the previous day	Total number of children age 12-15 months	
2.10	Continued breastfeeding at 2 years	BD	Number of children age 20-23 months who received breast milk during the previous day	Total number of children age 20-23 months	
2.11	Duration of breastfeeding	BD	The age in months when 50 percent of children age 0-35 months did not receive breast milk during the previous day		
2.12	Age-appropriate breastfeeding	BD	Number of children age 0-23 months appropriately fed during the previous day	Total number of children age 0-23 months	
2.13	Introduction of solid, semi-solid or soft foods	BD	Number of infants age 6-8 months who received solid, semi-solid or soft foods during the previous day	Total number of infants age 6-8 months	
2.14	Milk feeding frequency for non-breastfed children	BD	Number of non-breastfed children age 6-23 months who received at least 2 milk feedings during the previous day	Total number of nonbreastfed children age 6-23 months	
2.15	Minimum meal frequency	BD	Number of children age 6-23 months who received solid, semi-solid and soft foods (plus milk feeds for non-breastfed children) the minimum number of times or more during the previous day	Total number of children age 6-23 months	
2.16	Minimum dietary diversity	BD	Number of children age 6-23 months who received foods from 4 or more food groups during the previous day	Total number of children age 6-23 months	
2.17a 2.17b	Minimum acceptable diet	BD	(a) Number of breastfed children age 6-23 months who had at least the minimum dietary diversity and the minimum meal frequency during the previous day (b) Number of non-breastfed children age 6-23 months who received at least 2 milk feedings and had at least the minimum dietary diversity not including milk feeds and the minimum meal frequency during the previous day	(a) Number of breastfed children age 6-23 months (b) Number of nonbreastfed children age 6-23 months	
2.18	Bottle feeding	BD	Number of children age 0-23 months who were fed with a bottle during the previous day	Total number of children age 0-23 months	
2.19	Iodized salt consumption	SI	Number of households with salt testing 15 parts per million or more of iodide/iodate	Total number of households in which salt was tested or where there was no salt	

2.20	Low-birthweight infants	MN	Number of most recent live births in the last 2 years weighing below 2,500 grams at birth	Total number of most recent live births in the last 2 years	
2.21	Infants weighed at birth	MN	Number of most recent live births in the last 2 years who were weighed at birth	Total number of most recent live births in the last 2 years	

CHILD HEALTH

3.1	Tuberculosis immunization coverage	IM	Number of children age 12-23 months who received BCG vaccine by their first birthday	Total number of children age 12-23 months	
3.2	Polio immunization coverage	IM	Number of children age 12-23 months who received the third dose of OPV vaccine (OPV3) by their first birthday	Total number of children age 12-23 months	
3.3	Diphtheria, pertussis and tetanus (DPT) immunization coverage	IM	Number of children age 12-23 months who received the third dose of DPT vaccine (DPT3) by their first birthday	Total number of children age 12-23 months	
3.4	Measles immunization coverage	IM	Number of children age 12-23 months who received measles vaccine by their first birthday	Total number of children age 12-23 months	MDG 4.3
3.5	Hepatitis B immunization coverage	IM	Number of children age 12-23 months who received the third dose of Hepatitis B vaccine (HepB3) by their first birthday	Total number of children age 12-23 months	

3.6	Haemophilus influenzae type B (Hib) immunization coverage	IM	Number of children age 12-23 months who received the third dose of Hib vaccine (Hib3) by their first birthday	Total number of children age 12-23 months	
3.7	Yellow fever immunization coverage	IM	Number of children age 12-23 months who received yellow fever vaccine by their first birthday	Total number of children age 12-23 months	
3.8	Full immunization coverage	IM	Number of children age 12-23 months who received all vaccinations recommended in the national immunization schedule by their first birthday	Total number of children age 12-23 months	
3.9	Neonatal tetanus protection	MN	Number of women age 15-49 years with a live birth in the last 2 years who were given at least two doses of tetanus toxoid vaccine within the appropriate interval prior to the most recent birth	Total number of women age 15-49 years with a live birth in the last 2 years	

3.10	Care-seeking for diarrhoea	CA	Number of children under age 5 with diarrhoea in the last 2 weeks for whom advice or treatment was sought from a health facility or provider	Total number of children under age 5 with diarrhoea in the last 2 weeks	
3.11	Diarrhoea treatment with oral rehydration salts (ORS) and zinc	CA	Number of children under age 5 with diarrhoea in the last 2 weeks who received ORS and zinc	Total number of children under age 5 with diarrhoea in the last 2 weeks	
3.12	Diarrhoea treatment with oral rehydration therapy (ORT) and continued feeding	CA	Number of children under age 5 with diarrhoea in the last 2 weeks who received ORT (ORS packet, pre-packaged ORS fluid, recommended homemade fluid or increased fluids) and continued feeding during the episode of diarrhoea	Total number of children under age 5 with diarrhoea in the last 2 weeks	
3.13	Care-seeking for children with acute respiratory infection (ARI) symptoms	CA	Number of children under age 5 with ARI symptoms in the last 2 weeks for whom advice or treatment was sought from a health facility or provider	Total number of children under age 5 with ARI symptoms in the last 2 weeks	
3.14	Antibiotic treatment for children with ARI symptoms	CA	Number of children under age 5 with ARI symptoms in the last 2 weeks who received antibiotics	Total number of children under age 5 with ARI symptoms in the last 2 weeks	
3.15	Use of solid fuels for cooking	HC	Number of household members in households that use solid fuels as the primary source of domestic energy to cook	Total number of household members	
3.16a 3.16b	Household availability of insecticide-treated nets (ITNs)	TN	Number of households with (a) at least one ITN (b) at least one ITN for every two people	Total number of households	

3.17a 3.17b	Household vector control	TN - IR	Number of households (a) with at least one ITN or that have been sprayed by IRS in the last 12 months (b) with at least one ITN for every two people or that have been sprayed by IRS in the last 12 months	Total number of households	
3.18	Children under age 5 who slept under an ITN	TN	Number of children under age 5 who slept under an ITN the previous night	Total number of children under age 5 who spent the previous night in the interviewed households	MDG 6.7

3.19	Population that slept under an ITN	TN	Number of household members who slept under an ITN the previous night	Total number of household members who spent the previous night in the interviewed households	
3.20	Care-seeking for fever	CA	Number of children under age 5 with fever in the last 2 weeks for whom advice or treatment was sought from a health facility or provider	Total number of children under age 5 with fever in the last 2 weeks	
3.21	Malaria diagnostics usage	CA	Number of children under age 5 with fever in the last 2 weeks who had a finger or heel stick for malaria testing	Total number of children under age 5 with fever in the last 2 weeks	
3.22	Anti-malarial treatment of children under age 5	CA	Number of children under age 5 with fever in the last 2 weeks who received any antimalarial treatment	Total number of children under age 5 with fever in the last 2 weeks	MDG 6.8
3.23	Treatment with Artemisinin-based Combination Therapy (ACT) among children who received antimalarial treatment	CA	Number of children under age 5 with fever in the last 2 weeks who received ACT (or other first-line treatment according to national policy)	Total number of children under age 5 with fever in the last 2 weeks who received any antimalarial drugs	
3.24	Pregnant women who slept under an ITN	TN – CP	Number of pregnant women who slept under an ITN the previous night	Total number of pregnant women	
3.25	Intermittent preventive treatment for malaria during pregnancy	MN	Number of women age 15-49 years who received three or more doses of SP/Fansidar, at least one of which was received during an ANC visit, to prevent malaria during their last pregnancy that led to a live birth in the last 2 years	Total number of women age 15-49 years with a live birth in the last 2 years	
WATER AND SANITATION					
4.1	Use of improved drinking water sources	WS	Number of household members using improved sources of drinking water	Total number of household members	MDG 7.8
4.2	Water treatment	WS	Number of household members in households using unimproved drinking water who use an appropriate treatment method	Total number of household members in households using unimproved drinking water sources	
4.3	Use of improved sanitation	WS	Number of household members using improved sanitation facilities which are not shared	Total number of household members	MDG 7.9
4.4	Safe disposal of child's faeces	CA	Number of children age 0-2 years whose last stools were disposed of safely	Total number of children age 0-2 years	

4.5	Place for handwashing	HW	Number of households with a specific place for hand washing where water and soap or other cleansing agent are present	Total number of households	
4.6	Availability of soap or other cleansing agent	HW	Number of households with soap or other cleansing agent	Total number of households	

REPRODUCTIVE HEALTH					
5.1	Adolescent birth rate	CM - BH	Age-specific fertility rate for women age 15-19 years		MDG 5.4
5.2	Early childbearing	CM - BH	Number of women age 20-24 years who had at least one live birth before age 18	Total number of women age 20-24 years	
5.3	Contraceptive prevalence rate	CP	Number of women age 15-49 years currently married or in union who are using (or whose partner is using) a (modern or traditional) contraceptive method	Total number of women age 15-49 years who are currently married or in union	MDG 5.3
5.4	Unmet need	UN	Number of women age 15-49 years who are currently married or in union who are fecund and want to space their births or limit the number of children they have and who are not currently using contraception	Total number of women age 15-49 years who are currently married or in union	MDG 5.6
5.5a 5.5b	Antenatal care coverage	MN	Number of women age 15-49 years with a live birth in the last 2 years who were attended during their last pregnancy that led to a live birth (a) at least once by skilled health personnel (b) at least four times by any provider	Total number of women age 15-49 years with a live birth in the last 2 years	MDG 5.5
5.6	Content of antenatal care	MN	Number of women age 15-49 years with a live birth in the last 2 years who had their blood pressure measured and gave urine and blood samples during the last pregnancy that led to a live birth	Total number of women age 15-49 years with a live birth in the last 2 years	
5.7	Skilled attendant at delivery	MN	Number of women age 15-49 years with a live birth in the last 2 years who were attended by skilled health personnel during their most recent live birth	Total number of women age 15-49 years with a live birth in the last 2 years	MDG 5.2
5.8	Institutional deliveries	MN	Number of women age 15-49 years with a live birth in the last 2 years whose most recent live birth was delivered in a health facility	Total number of women age 15-49 years with a live birth in the last 2 years	

5.9	Caesarean section	MN	Number of women age 15-49 years whose most recent live birth in the last 2 years was delivered by caesarean section	Total number of women age 15-49 years with a live birth in the last 2 years	
5.10	Post-partum stay in health facility	PN	Number of women age 15-49 years who stayed in the health facility for 12 hours or more after the delivery of their most recent live birth in the last 2 years	Total number of women age 15-49 years with a live birth in the last 2 years	
5.11	Post-natal health check for the newborn	PN	Number of last live births in the last 2 years who received a health check while in facility or at home following delivery, or a post-natal care visit within 2 days after delivery	Total number of last live births in the last 2 years	
5.12	Post-natal health check for the mother	PN	Number of women age 15-49 years who received a health check while in facility or at home following delivery, or a postnatal care visit within 2 days after delivery of their most recent live birth in the last 2 years	Total number of women age 15-49 years with a live birth in the last 2 years	
5.13	Maternal mortality ratio	MM	Deaths during pregnancy, childbirth, or within two months after delivery or termination of pregnancy, per 100,000 births within the 7 year period preceding the survey		MDG5.1

CHILD DEVELOPMENT					
6.1	Attendance to early childhood education	EC	Number of children age 36-59 months who are attending an early childhood education programme	Total number of children age 36-59 months	
6.2	Support for learning	EC	Number of children age 36-59 months with whom an adult has engaged in four or more activities to promote learning and school readiness in the last 3 days	Total number of children age 36-59 months	
6.3	Father's support for learning	EC	Number of children age 36-59 months whose biological father has engaged in four or more activities to promote learning and school readiness in the last 3 days	Total number of children age 36-59 months	
6.4	Mother's support for learning	EC	Number of children age 36-59 months whose biological mother has engaged in four or more activities to promote learning and school readiness in the last 3 days	Total number of children age 36-59 months	
6.5	Availability of children's books	EC	Number of children under age 5 who have three or more children's books	Total number of children under age 5	
6.6	Availability of playthings	EC	Number of children under age 5 who play with two or more types of playthings	Total number of children under age 5	

6.7	Inadequate care	EC	Number of children under age 5 left alone or in the care of another child younger than 10 years of age for more than one hour at least once in the last week	Total number of children under age 5	
6.8	Early child development index	EC	Number of children age 36-59 months who are developmentally on track in at least three of the following four domains: literacy-numeracy, physical, social-emotional, and learning	Total number of children age 36-59 months	

LITERACY AND EDUCATION					
7.1	Literacy rate among young women ^[M]	WB	Number of women age 15-24 years who are able to read a short simple statement about everyday life or who attended secondary or higher education	Total number of women age 15-24 years	MDG 2.3
7.2	School readiness	ED	Number of children in first grade of primary school who attended pre-school during the previous school year	Total number of children attending the first grade of primary school	
7.3	Net intake rate in primary education	ED	Number of children of school-entry age who enter the first grade of primary school	Total number of children of school-entry age	
7.4	Primary school net attendance ratio (adjusted)	ED	Number of children of primary school age currently attending primary or secondary school	Total number of children of primary school age	MDG 2.1
7.5	Secondary school net attendance ratio (adjusted)	ED	Number of children of secondary school age currently attending secondary school or higher	Total number of children of secondary school age	
7.6	Children reaching last grade of primary	ED	Proportion of children entering the first grade of primary school who eventually reach last grade		MDG 2.2
7.7	Primary completion rate	ED	Number of children attending the last grade of primary school (excluding repeaters)	Total number of children of primary school completion age (age appropriate to final grade of primary school)	
7.8	Transition rate to secondary school	ED	Number of children attending the last grade of primary school during the previous school year who are in the first grade of secondary school during the current school year	Total number of children attending the last grade of primary school during the previous school year	
7.9	Gender parity index (primary school)	ED	Primary school net attendance ratio (adjusted) for girls	Primary school net attendance ratio (adjusted) for boys	MDG 3.1

7.10	Gender parity index (secondary school)	ED	Secondary school net attendance ratio (adjusted) for girls	Secondary school net attendance ratio (adjusted) for boys	MDG 3.1
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CHILD PROTECTION					
8.1	Birth registration	BR	Number of children under age 5 whose births are reported registered	Total number of children under age 5	
8.2	Child labour	CL	Number of children age 5-17 years who are involved in child labour	Total number of children age 5-17 years	
8.3	Violent discipline	CD	Number of children age 1-14 years who experienced psychological aggression or physical punishment during the last one month	Total number of children age 1-14 years	
8.4	Marriage before age 15 ^[M]	MA	Number of women age 15-49 years who were first married or in union before age 15	Total number of women age 15-49 years	
8.5	Marriage before age 18 ^[M]	MA	Number of women age 20-49 years who were first married or in union before age 18	Total number of women age 20-49 years	
8.6	Young women age 15-19 years currently married or in union ^[M]	MA	Number of women age 15-19 years who are married or in union	Total number of women age 15-19 years	
8.7	Polygyny ^[M]	MA	Number of women age 15-49 years who are in a polygynous union	Total number of women age 15-49 years who are married or in union	
8.8a 8.8b	Spousal age difference	MA	Number of women who are married or in union and whose spouse is 10 or more years older, (a) among women age 15-19 years, (b) among women age 20-24 years	Total number of women who are married or in union (a) age 15-19 years, (b) age 20-24 years	
8.9	Approval for female genital mutilation/cutting (FGM/C)	FG	Number of women age 15-49 years who state that FGM/C should be continued	Total number of women age 15-49 years who have heard of FGM/C	
8.10	Prevalence of FGM/C among women	FG	Number of women age 15-49 years who report to have undergone any form of FGM/C	Total number of women age 15-49 years	
8.11	Prevalence of FGM/C among girls	FG	Number of daughters age 0-14 years who have undergone any form of FGM/C, as reported by mothers age 15-49 years	Total number of daughters age 0-14 years of mothers age 15-49 years	

8.12	Attitudes towards domestic violence ^[M]	DV	Number of women who state that a husband is justified in hitting or beating his wife in at least one of the following circumstances: (1) she goes out without telling him, (2) she neglects the children, (3) she argues with him, (4) she refuses sex with him, (5) she burns the food	Total number of women age 15-49 years	
8.13	Children's living arrangements	HL	Number of children age 0-17 years living with neither biological parent	Total number of children age 0-17 years	
8.14	Prevalence of children with one or both parents dead	HL	Number of children age 0-17 years with one or both biological parents dead	Total number of children age 0-17 years	
8.15	Children with at least one parent living abroad	HL	Number of children 0-17 years with at least one biological parent living abroad	Total number of children 0-17 years	

HIV/AIDS AND SEXUAL BEHAVIOUR					
9.1	Knowledge about HIV prevention among young women ^[M]	HA	Number of women age 15-24 years who correctly identify ways of preventing the sexual transmission of HIV, and who reject major misconceptions about HIV transmission	Total number of women age 15-24 years	MDG 6.3
9.2	Knowledge of mother-to-child transmission of HIV ^[M]	HA	Number of women age 15-49 years who correctly identify all three means of mother-to-child transmission of HIV	Total number of women age 15-49 years	
9.3	Accepting attitudes towards people living with HIV ^[M]	HA	Number of women age 15-49 years expressing accepting attitudes on all four questions toward people living with HIV	Total number of women age 15-49 years who have heard of HIV	
9.4	Women who know where to be tested for HIV ^[M]	HA	Number of women age 15-49 years who state knowledge of a place to be tested for HIV	Total number of women age 15-49 years	
9.5	Women who have been tested for HIV and know the results ^[M]	HA	Number of women age 15-49 years who have been tested for HIV in the last 12 months and who know their results	Total number of women age 15-49 years	
9.6	Sexually active young women who have been tested for HIV and know the results ^[M]	HA	Number of women age 15-24 years who have had sex in the last 12 months, who have been tested for HIV in the last 12 months and who know their results	Total number of women age 15-24 years who have had sex in the last 12 months	

9.7	HIV counselling during antenatal care	HA	Number of women age 15-49 years who had a live birth in the last 2 years and received antenatal care during the pregnancy of their most recent birth, reporting that they received counselling on HIV during antenatal care	Total number of women age 15-49 years who had a live birth in the last 2 years	
9.8	HIV testing during antenatal care	HA	Number of women age 15-49 years who had a live birth in the last 2 years and received antenatal care during the pregnancy of their most recent birth, reporting that they were offered and accepted an HIV test during antenatal care and received their results	Total number of women age 15-49 years who had a live birth in the last 2 years	
9.9	Young women who have never had sex ^[M]	SB	Number of never married women age 15-24 years who have never had sex	Total number of never married women age 15-24 years	
9.10	Sex before age 15 among young women ^[M]	SB	Number of women age 15-24 years who had sexual intercourse before age 15	Total number of women age 15-24 years	
9.11	Age-mixing among sexual partners	SB	Number of women age 15-24 years who had sex in the last 12 months with a partner who was 10 or more years older	Total number of women age 15-24 years who had sex in the last 12 months	
9.12	Multiple sexual partnerships ^[M]	SB	Number of women age 15-49 years who had sexual intercourse with more than one partner in the last 12 months	Total number of women age 15-49 years	
9.13	Condom use at last sex among people with multiple sexual partnerships ^[M]	SB	Number of women age 15-49 years who report having had more than one sexual partner in the last 12 months who also reported that a condom was used the last time they had sex	Total number of women age 15-49 years who reported having had more than one sexual partner in the last 12 months	
9.14	Sex with non-regular partners ^[M]	SB	Number of sexually active women age 15-24 years who had sex with a nonmarital, non-cohabitating partner in the last 12 months	Total number of women age 15-24 years who had sex in the last 12 months	
9.15	Condom use with nonregular partners ^[M]	SB	Number of women age 15-24 years reporting the use of a condom during the last sexual intercourse with a nonmarital, non-cohabiting sex partner in the last 12 months	Total number of women age 15-24 years who had sex with a non-marital, non-cohabiting partner in the last 12 months	MDG 6.2
9.16	Ratio of school attendance of orphans to school attendance of non-orphans	HL - ED	Proportion attending school among children age 10-14 years who have lost both parents	Proportion attending school among children age 10-14 years whose parents are alive and who are living with one or both parents	MDG 6.4

9.17	Male circumcision	MMC	Number of men age 15-49 years who report having been circumcised	Total number of men age 15-49 years	
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ACCESS TO MASS MEDIA AND USE OF INFORMATION/COMMUNICATION TECHNOLOGY

10.1	Exposure to mass media ^[M]	MT	Number of women age 15-49 years who, at least once a week, read a newspaper or magazine, listen to the radio, and watch television	Total number of women age 15-49 years	
10.2	Use of computers ^[M]	MT	Number of young women age 15-24 years who used a computer during the last 12 months	Total number of women age 15-24 years	
10.3	Use of internet ^[M]	MT	Number of young women age 15-24 who used the internet during the last 12 months	Total number of women age 15-24 years	

SUBJECTIVE WELL-BEING

11.1	Life satisfaction ^[M]	LS	Number of women age 15-24 years who are very or somewhat satisfied with their life, overall	Total number of women age 15-24 years	
11.2	Happiness ^[M]	LS	Number of women age 15-24 years who are very or somewhat happy	Total number of women age 15-24 years	
11.3	Perception of a better life ^[M]	LS	Number of women age 15-24 years whose life improved during the last one year, and who expect that their life will be better after one year	Total number of women age 15-24 years	

TOBACCO AND ALCOHOL USE

12.1	Tobacco use ^[M]	TA	Number of women age 15-49 years who smoked cigarettes, or used smoked or smokeless tobacco products at any time during the last one month	Total number of women age 15-49 years	
12.2	Smoking before age 15 ^[M]	TA	Number of women age 15-49 years who smoked a whole cigarette before age 15	Total number of women age 15-49 years	
12.3	Use of alcohol ^[M]	TA	Number of women age 15-49 years who had at least one alcoholic drink at any time during the last one month	Total number of women age 15-49 years	
12.4	Use of alcohol before age 15 ^[M]	TA	Number of women age 15-49 years who had at least one alcoholic drink before age 15	Total number of women age 15-49 years	

Appendix F. Questionnaires

Acknowledgements/Contacts

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