



NHMIS ANNUAL REPORT

Data analysis of selected key health indicators.
January - December, 2017

By

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LIST OF ABBREVIATIONS

ACT	Artemisinin-based Combination Therapy
ANC	Antenatal care
ART	Antiretroviral Therapy
BCG	Bacillus Calmette-Guerin vaccine
DHIS2	District Health Information System version 2
DHPRS	Department of Health Planning, Research and Statistics
FMoH	Federal Ministry of Health
HCT	HIV Counselling and Testing
HIV	Human Immunodeficiency Virus
IDSR	Integrated Disease Surveillance and Response
IMCI	Integrated Management of Childhood Illnesses
IPT	Intermittent Preventive Treatment
IPV	Inactivated Polio Vaccine
LGA	Local Government Area
LLIN	Long Lasting Insecticide treated Nets
M&E	Monitoring and Evaluation
NCH	National Council on Health
NHMIS	National Health Management Information System
Penta	Pentavalent vaccine
RDT	Rapid Diagnostic Test
RMNCH	Reproductive, Maternal, Newborn and Child Health
TB	Tuberculosis
UN	United Nations
WHO	World Health Organization

Health Information System (HIS) is an integral and major thrust of the health system in Nigeria as recognized by the 2006 National Health Policy. This is because the quality of life of the Nigerian population can only be assessed based on adequate and complete information. The goal of the National Health Management Information System (NHMIS) is to establish an effective Health Management Information System at all levels of government in the Federation.

The emphasis of the 2014 Health Information System policy was to strengthen HIS in the country and promote the use of health information at the community, health facility, local government, state and national levels. This was aimed at fostering ownership of health data to positively impact the health system. This was a follow up to the event of 2013 where the federal government in collaboration with other actors and stakeholders decided to identify and apply best practices for the management of routine health data. The 56th National Council of Health (NCH) resolved to have the NHMIS with one instance, a data management tool for reporting routine health data.

The District Health Information System 2 (DHIS2) was then introduced in Nigeria as the data management tool for the NHMIS. The DHIS, a software package, was adapted for use by the Nigeria Federal Ministry of Health (FMoH) to enter monthly aggregated data from all facilities for health programs.

The information in this report has been obtained from the NHMIS and designed to capture facility-level data from all states in the country. It is anticipated that the NHMIS will provide reliable health information through an integrated network used by all programs within the health sector, and support an information-based management process. The report provides the status of key health indicators for health programs. This will, in turn, provide actors in the health sector with analyzed information to aid decision making and support continuous monitoring of health programs.

The NHMIS provides information on health service delivery and the health system that supports it, in a timely and reliable manner. It is equipped to improve data capture, storage analysis and report generation for health data in Nigeria. The NHMIS formed the backbone for monitoring results achieved from the implementation of the National Strategic Health Development Plan (NSHDP).

The National Health Management Information System was initially developed in Nigeria in 1993. In 2006, eventual harmonization of vertical Monitoring and Evaluation (M&E) tools and systems culminated in the incorporation of key programmatic indicators in the health sector into the NHMIS as captured in the NHMIS Policy (2006). The 56th National Council on Health, in 2013, made a resolution to make use of DHIS2 as the instance for reporting health data at all levels of government and facilities in the country.

There are currently several forms available on the NHMIS platform. Some of the forms include the NHMIS Monthly Summary (version 2013), Anti-Retroviral Treatment (ART) Monthly Summary Form, Community Monthly Summary Form, HIV Counselling and Testing (HCT) Monthly Summary Form, Health Facility Immunization, Health Facility Vaccines Utilization Summary, IDSR 003 - Integrated Disease Surveillance and Response (IDSR), and Routine Immunization Supplementary Dataset.

From the "NHMIS Monthly Summary Form (version 2013); some of the sections of the monthly report are Health Facility Attendance, Maternal Health, Pregnancy Outcomes, Immunization, Nutrition, Malaria Prevention (LLIN), Integrated Management of Childhood Illnesses (IMCI), Family Planning, Referrals, Non-communicable diseases, Sexually transmitted infections, Laboratory, Admissions, Pharmaceutical service, Adverse Drug Reaction, Mortality, HIV, TB, Malaria and Integrated Services, and Commodity Availability.

The paper-based monthly report is collated and populated by the M&E focal person of the health facility for the previous month and is submitted to the LGA office by the 7th day of the current month which is the deadline for submission. The submitted information is then entered into the DHIS2 system by the M&E focal person at the LGA health office by the 14th day of the current month. To enhance data accuracy, validation rules have been set up in DHIS2. Tracer data elements have been made compulsory before data can be submitted to enhance data completeness.

Furthermore, the M&E staff of the DPRS conduct regular data quality assurance at health facilities and LGA M&E offices to check for data inconsistencies and take corrective measures when necessary. This data is analyzed on a monthly basis and displayed on dashboards to facilitate data use and decision making by key decision makers and stakeholders.

FACILITY REPORTING RATES



The reporting rate for the year in review was relatively stable across the months (figure 1). As shown in figure 2, Oyo state had the highest reporting rate while Bayelsa had the least (46.9%).

The NHMIS reporting rate in 2017 was **82.6%**

It is important to emphasize the need for improved reporting rates amongst all states, especially in states where the reporting rates are below average. This will improve NHMIS data quality and usage.

All data shown in this document are obtained from health facilities registered on the NHMIS platform. The number of facilities registered on the NHMIS platform and the number that reported for each month in 2017 across the nation is shown in appendix B.

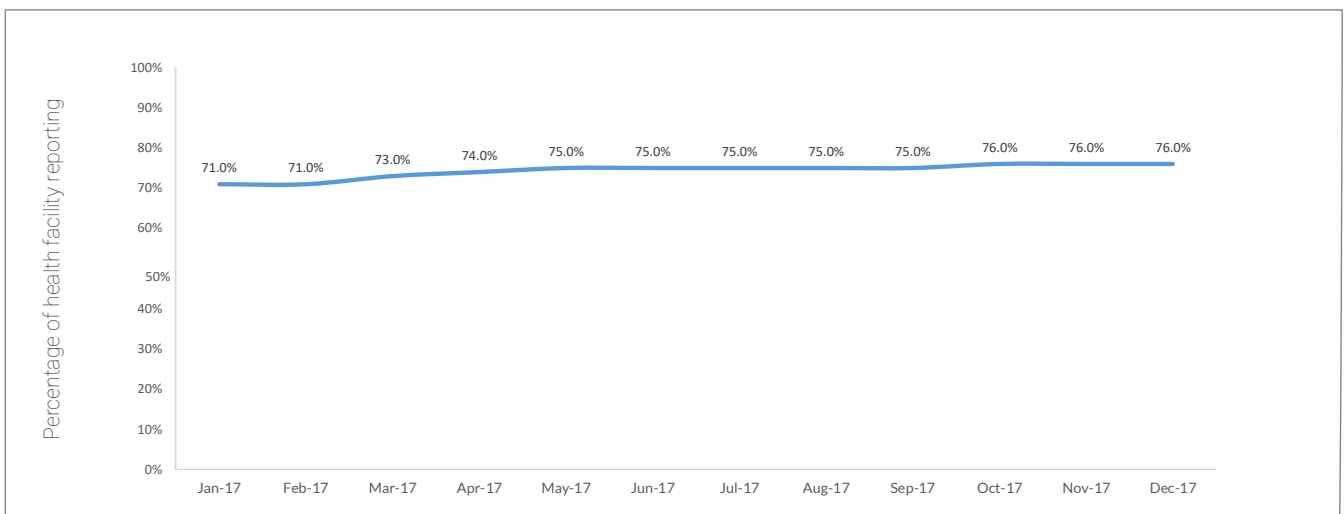


FIGURE 1: NHMIS 2017 REPORTING RATES

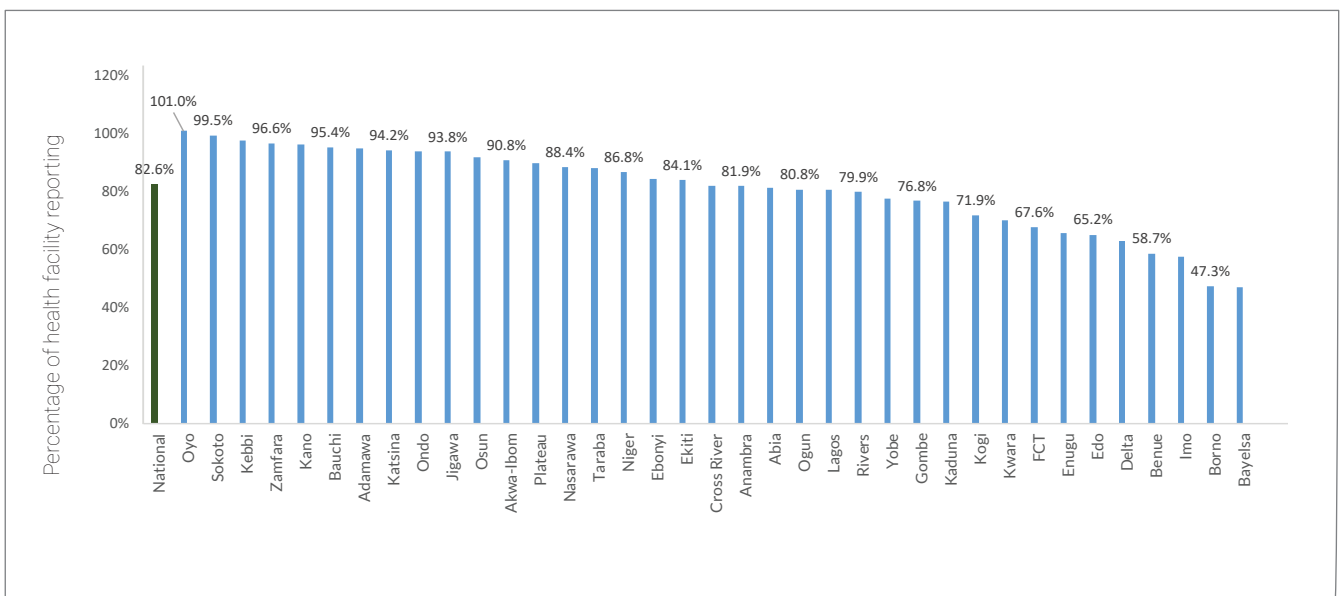


FIGURE 2: NHMIS REPORTING RATES DISTRIBUTED BY STATES

UNDER-FIVE MORTALITY

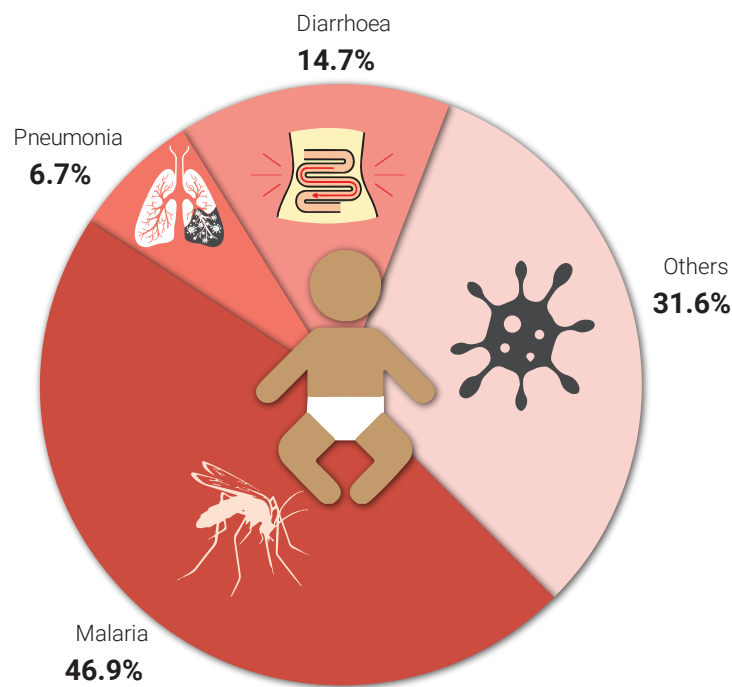
The mortality rate of children under five years of age in 2017 was 12.8 deaths per 1000 live births (Figure 3). There was an overall increase in the mortality rate of children under five from January (12.1) to December (15.5) with intermittent peak values experienced in the months of April and September. The highest value (22.2) was recorded in September (see Table 1).

As shown in figure 3, Katsina state reported the highest rate of deaths (44), while Osun reported the least value (0.1). Malaria remained the top cause of deaths among under-fives throughout the year in all states except Edo and Akwa Ibom states (Figure 4). In Edo state, diarrhoea accounted for 44.4% of under-five deaths, making it the top cause of under-five deaths in the state. In Akwa Ibom state however, 17.6% of the under-five deaths were ascribed to Pneumonia.

It should be noted that this indicator takes account of deaths that occurred in health facilities reporting on the NHMIS platform.

Table 1: Under 5 mortality rate (per 1000) in 2017

Period	Under 5 mortality rate (Facility)_per 1000
Jan-17	12.1
Feb-17	13.7
Mar-17	15.5
Apr-17	19.9
May-17	17.3
Jun-17	18.3
Jul-17	20.0
Aug-17	21.3
Sep-17	22.2
Oct-17	18.8
Nov-17	17.3
Dec-17	15.5



Causes of Under 5 deaths across the country in 2017

UNDER-FIVE MORTALITY

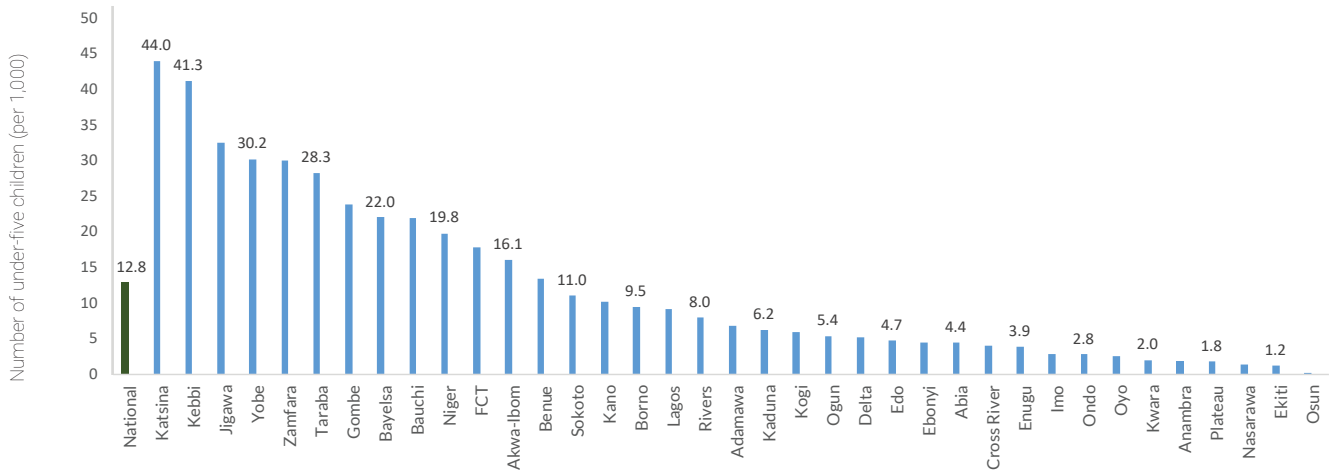


FIGURE 3: FACILITY-BASED UNDER 5 DEATHS (PER 1000) DISTRIBUTED BY STATES

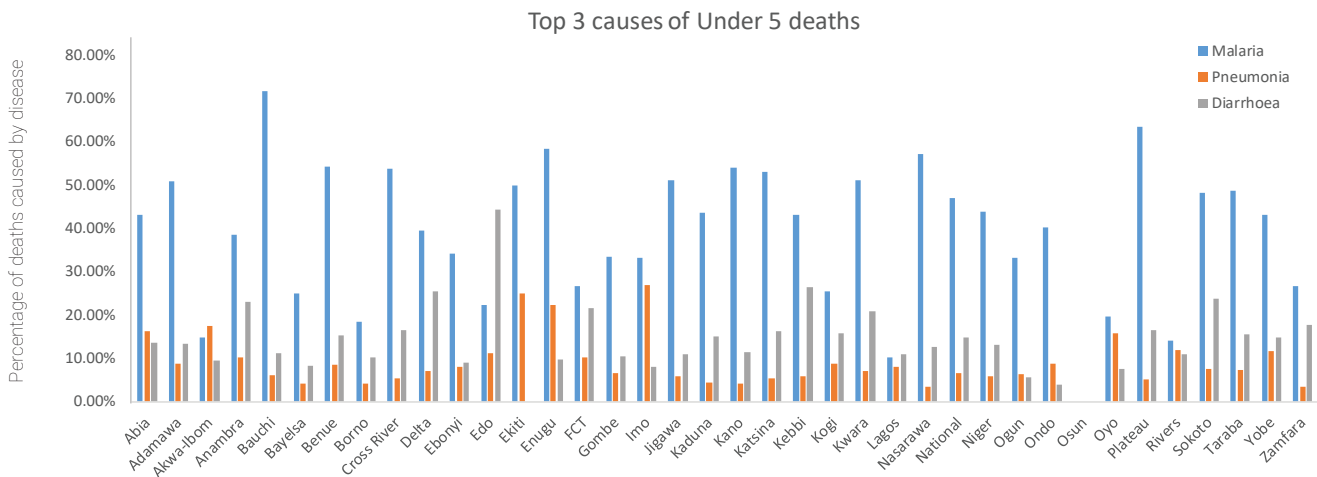
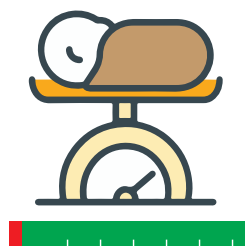


FIGURE 4: TOP 3 CAUSES OF UNDER 5 DEATHS IN 2017 DISTRIBUTED BY STATES

UNDER-FIVE NUTRITION



52 out of every **1000** under five children seen in health facilities in Nigeria were underweight

In 2017, 52 out of every 1,000 under 5 children seen in health facilities in the country were underweight (Figure 5). The underweight rate included both moderate and severe underweight cases.

The regional analysis shown in figure 6 shows that the north-western part of the country reported very high underweight rates (431) when compared to other geopolitical zones in the country.

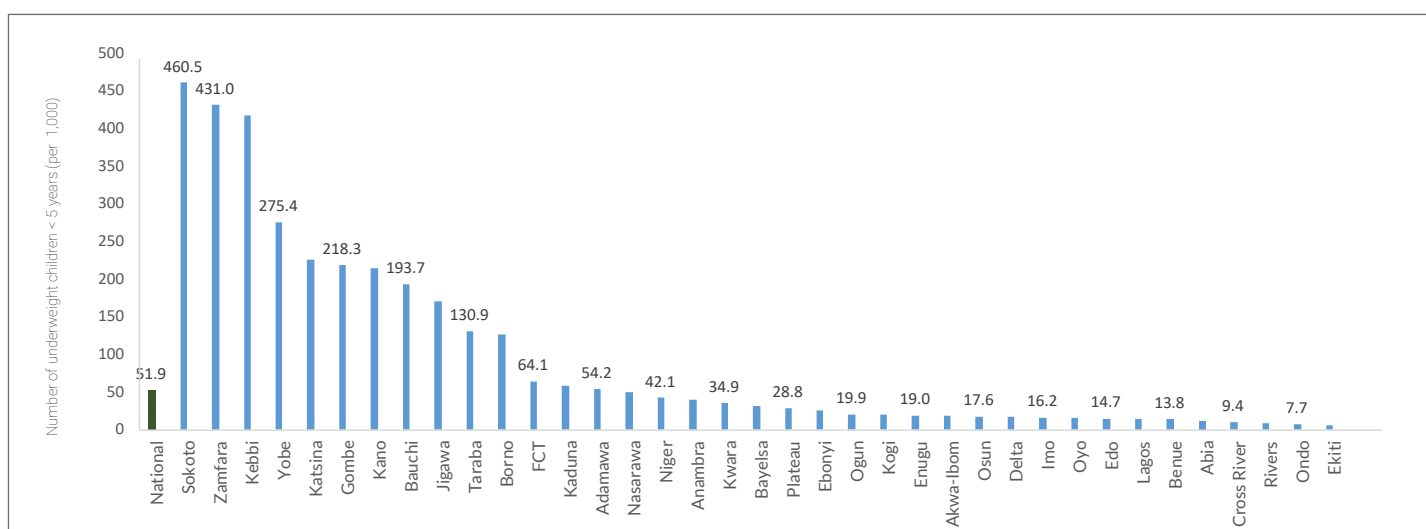


FIGURE 5: UNDERWEIGHT RATE AMONG UNDER 5 CHILDREN DISTRIBUTED BY STATES

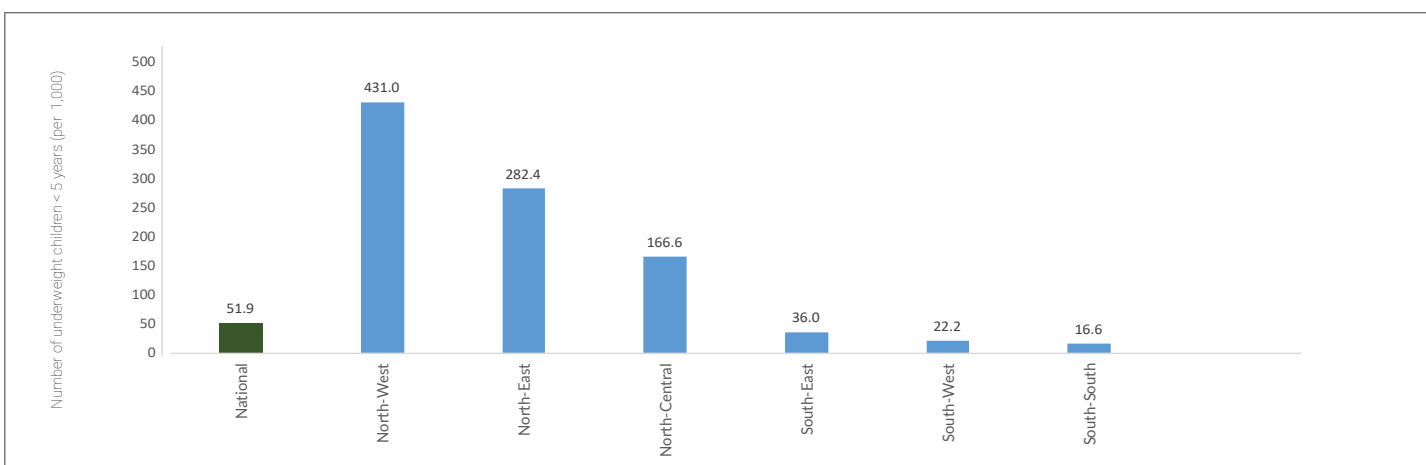


FIGURE 6: UNDERWEIGHT RATE AMONG UNDER 5 CHILDREN DISTRIBUTED BY GEO-POLITICAL ZONES

MATERNAL MORTALITY

262 maternal deaths per **100,000** live births were reported by health facilities in 2017.



It is difficult to correctly and exhaustively identify maternal deaths occurring at the community through routine data collection system, hence the calculation of this indicator is exclusively based on deaths that occurred at health facilities reporting on the NHMIS.

Katsina state reported the highest value (862.3), while Osun and Ekiti states reported the lowest values as shown in figure 8. Similar to the underweight rates of children under five years, a regional analysis carried out shows that the northern region of the country, particularly the north-western zone is the most affected (Figure 7).

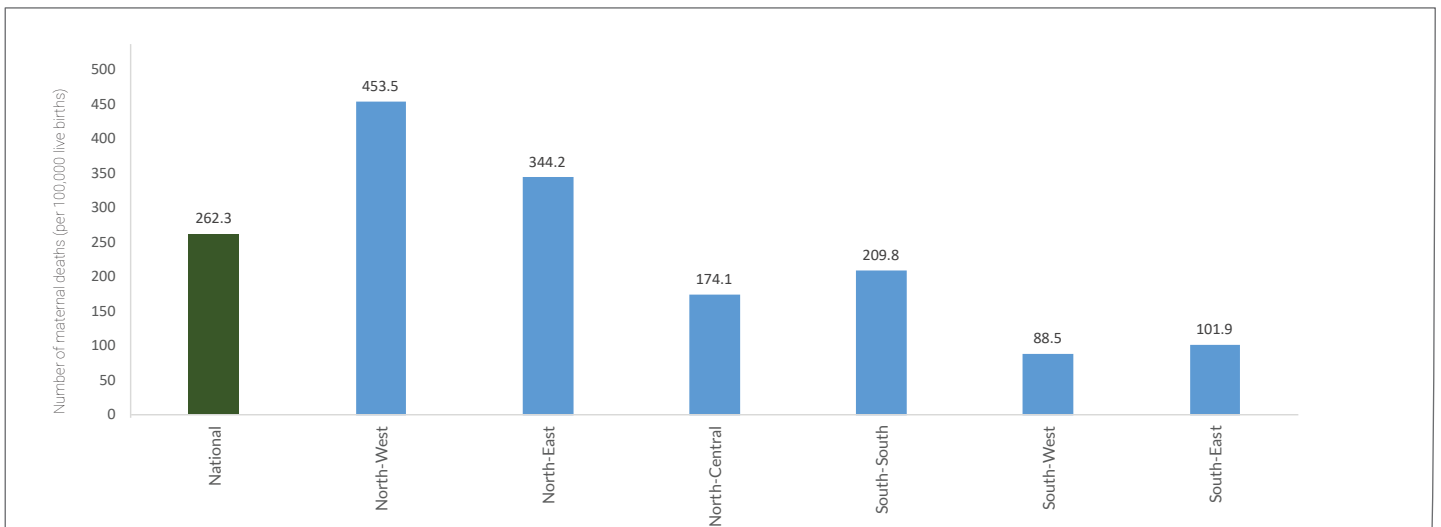


FIGURE 7: FACILITY-BASED MATERNAL DEATHS DISTRIBUTED BY GEO-POLITICAL ZONES

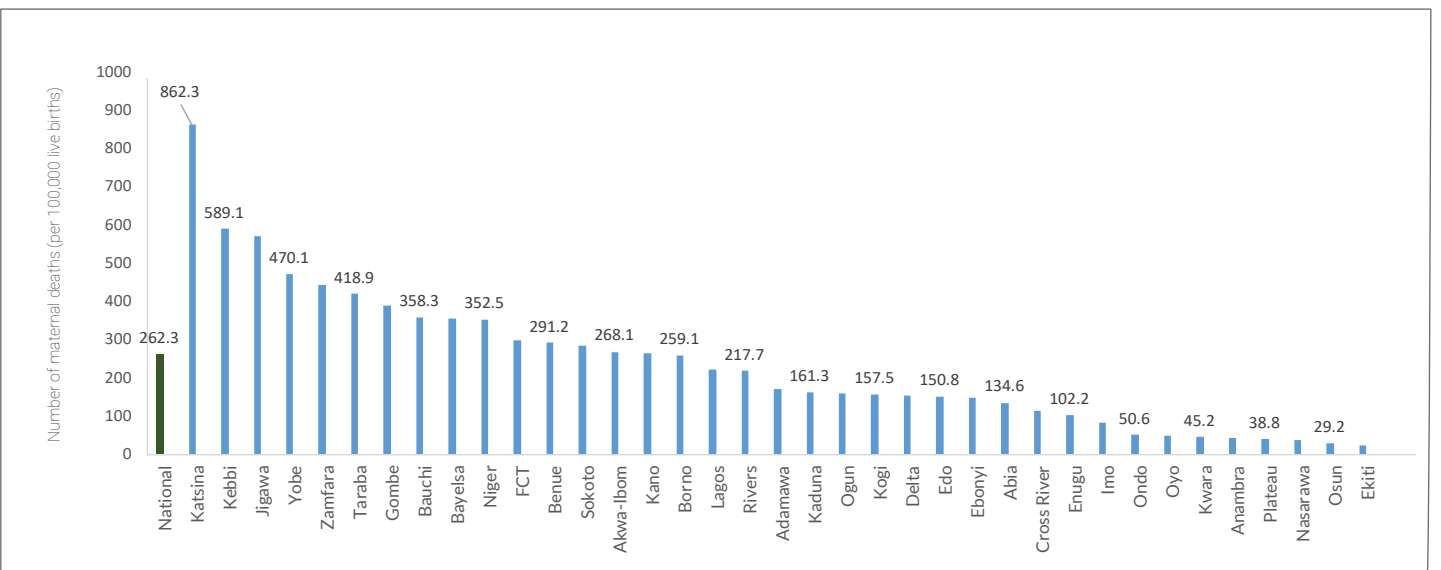


FIGURE 8: FACILITY-BASED MATERNAL DEATHS DISTRIBUTED BY STATES



In 2017, there were **43 million** outpatient visits in Nigeria

Outpatient attendance is an important indicator of health service utilization. Service utilization is a measure of how frequently individuals use health facilities. In 2017, the number of outpatient visits in the country was 43,676,557.

Lagos reported the highest outpatient attendance, followed by Kano and Jigawa, while Abia, Bayelsa and Zamfara states reported the lowest (Figure 9).

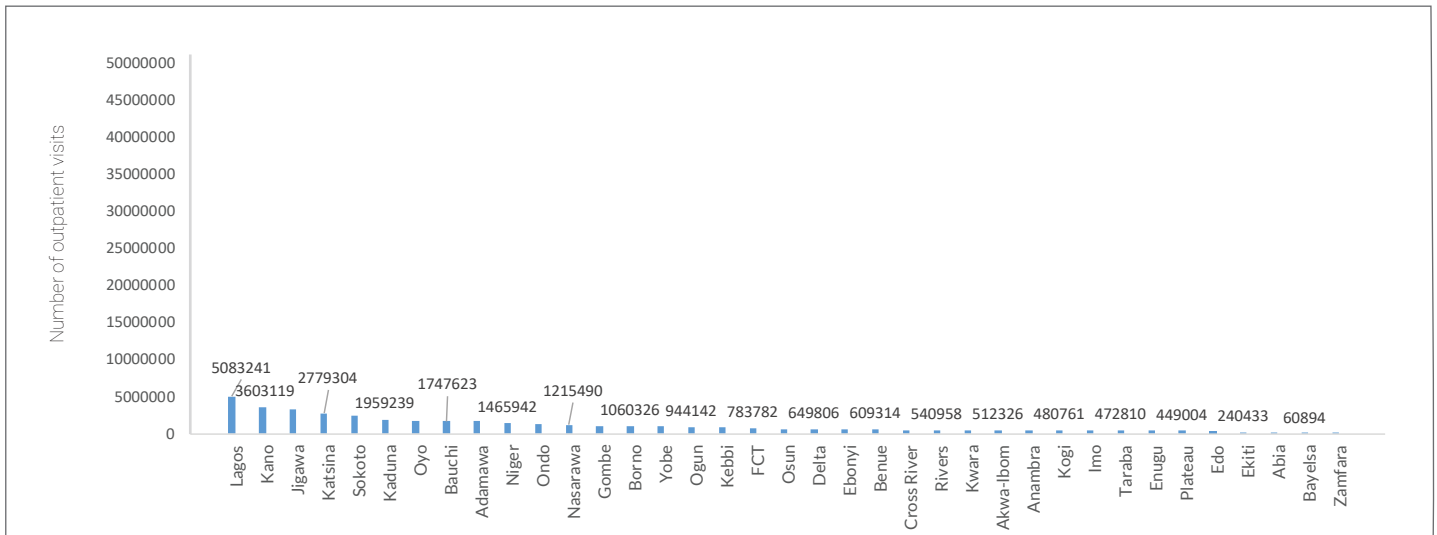


FIGURE 9: OUTPATIENT ATTENDANCE IN 2017

Antenatal care (ANC)

Across the country, about 35.3% of pregnant women had their 1st visit to the ANC clinic before the 20th week of their pregnancy as seen in figure 10. Adamawa state was the only state to report that, over 50% of pregnant women resident in the state had their 1st visit to the antenatal clinics before the 20th week. Table 2 shows that the rate of early antenatal 1st visits was generally poor but consistent throughout 2017.

There is a need to strengthen advocacy and social mobilization to improve early ANC 1st visits.



35.26% of women visited antenatal clinics before 20 weeks of pregnancy

Table 2: Percentage of antenatal 1st visits before 20 weeks

Period	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17
Values	36.0%	36.0%	37.0%	38.0%	36.0%	37.0%	35.0%	35.0%	36.0%	36.0%	28.0%	37.0%

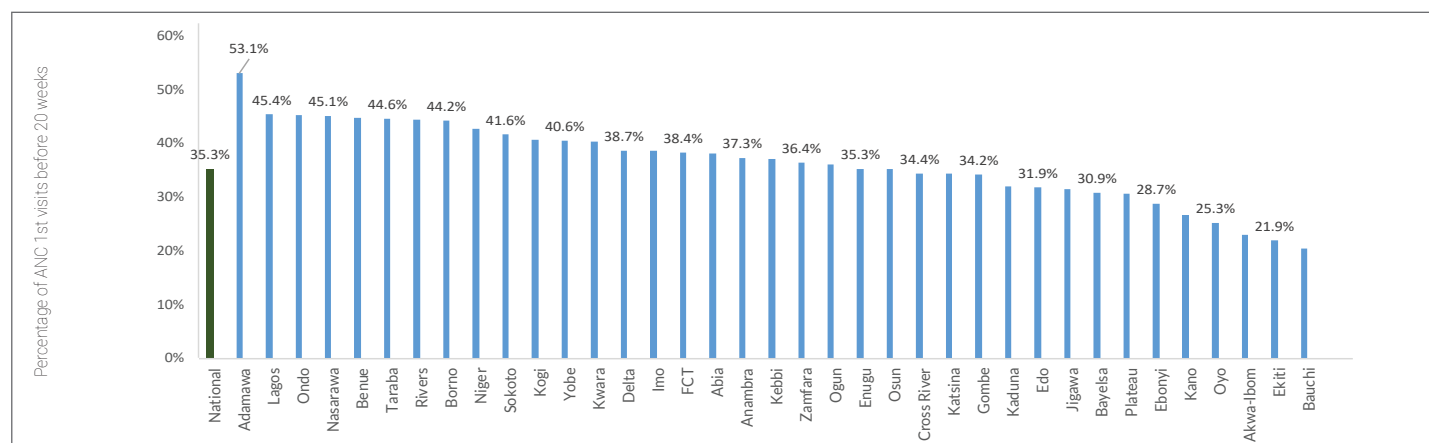


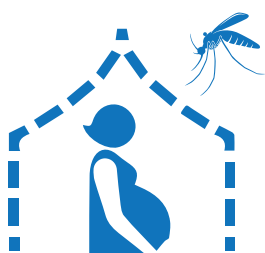
FIGURE 10: ANC 1ST VISITS BEFORE 20 WEEKS DISTRIBUTED BY STATES

ANC services

The coverage of routine antenatal services is discouraging as only about 32% of ANC attendees in 2017 received Long-Lasting Insecticide-treated Nets (LLIN) in their first antenatal visit. Cross River state reported the highest rate of ANC attendees that received LLIN (Figure 11).

As shown in figure 12, less than half of ANC first visits in the country received IPT1. Akwa Ibom, Ondo and Cross River were the only states that reported values above 70%.

Furthermore, only 32% of ANC attendees nationwide received IPT2 during subsequent visits, with Borno reporting the highest value of as shown in figure 13.



32% of pregnant women attending their first antenatal visits received LLIN in the country

Table 3: Percentage of antenatal 1st visits that received

Period	Values
Jan-17	36.0%
Feb-17	39.0%
Mar-17	36.0%
Apr-17	31.0%
May-17	28.0%
Jun-17	35.0%
Jul-17	29.0%
Aug-17	30.0%
Sep-17	30.0%
Oct-17	32.0%
Nov-17	26.0%
Dec-17	33.0%

REPRODUCTIVE HEALTH

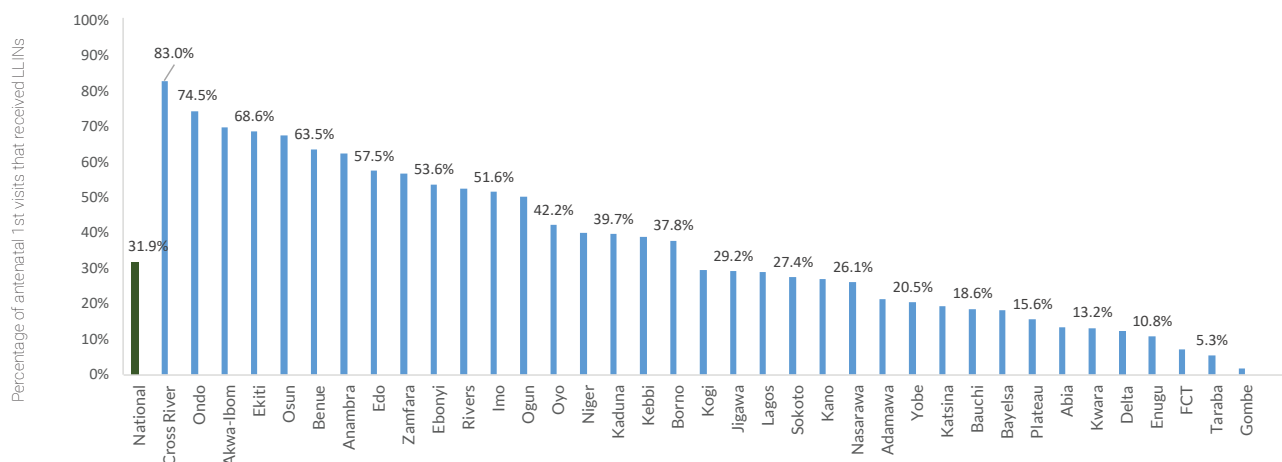


FIGURE 11: PREGNANT WOMEN WHO RECEIVED LLIN DURING THEIR FIRST ANTENATAL VISIT DISTRIBUTED BY STATES

Table 4: Percentage of ANC 1st visits who received IPT1

Period	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17
Antenatal 1st Visits receiving IPT1	51.9%	54.1%	50.7%	50.2%	47.7%	48.8%	51.3%	48.4%	48.0%	50.3%	37.1%	48.7%

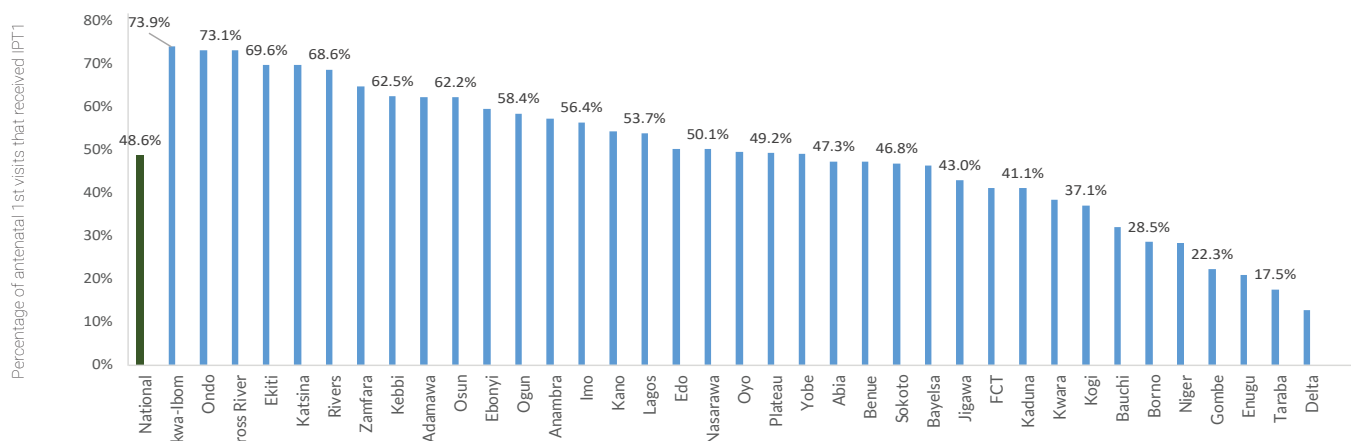


FIGURE 12: ANC 1ST VISITS WHO RECEIVED IPT1 DISTRIBUTED BY STATES.

Table 5: Percentage of pregnant women who received IPT2

Period	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17
Antenatal 1st Visits receiving IPT1	33.7%	34.4%	27.2%	32.5%	30.7%	31.3%	31.7%	31.3%	30.5%	31.0%	39.9%	31.3%

49% of ANC 1st visits received IPT1 and **32%** received IPT2 during antenatal revisits across the states



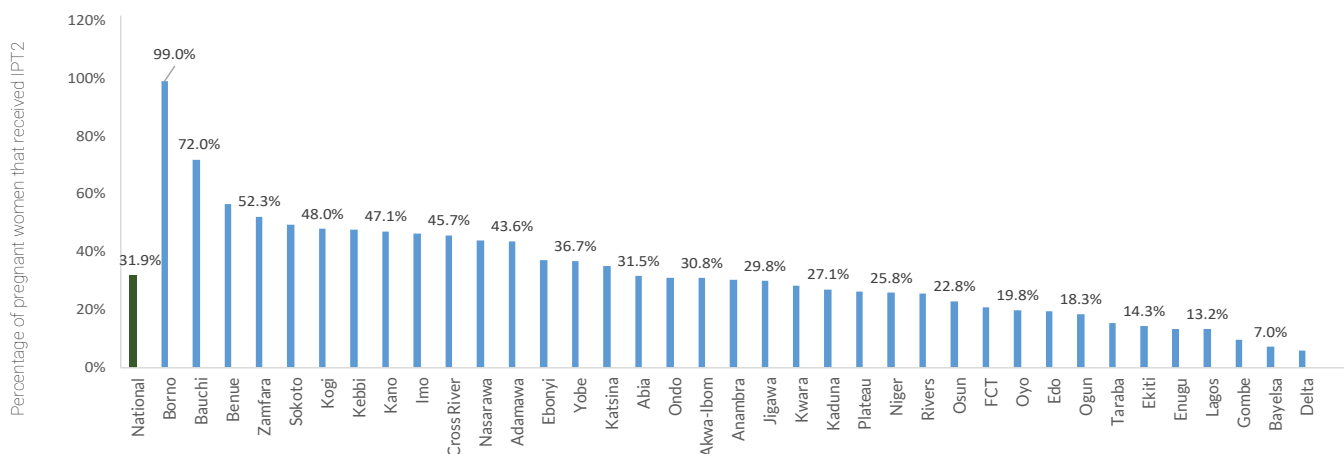


FIGURE 13: PREGNANT WOMEN WHO RECEIVED IPT2 DISTRIBUTED BY STATES.

Morbidity in Pregnancy

Anaemia

In 2017, 8.8% of women attending ANC were diagnosed with anaemia as seen in figure 14. One in every 4 women attending ANC in Sokoto state was diagnosed with anaemia, placing them as the state with the highest ANC anaemia rate for the year in review. Anambra state reported the lowest rate for this indicator.

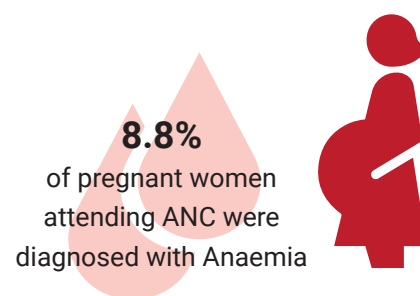


Table 6: Percentage of ANC attendees with confirmed anaemia

Period	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17
ANC Anaemia Rate	8.0%	9.0%	9.0%	8.0%	8.0%	9.0%	8.0%	11.0%	9.0%	9.0%	9.0%	8.0%

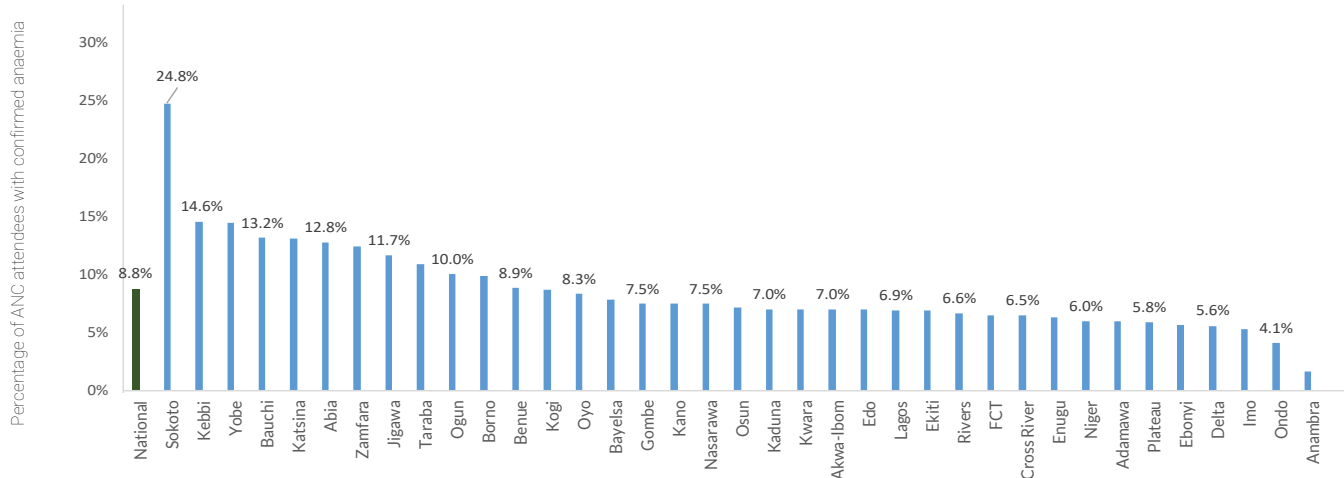


FIGURE 14: ANC ANAEMIA RATE DISTRIBUTED BY STATES

Malaria

The top three states reporting high percentages of pregnant women attending ANC diagnosed with malaria were Bauchi, Sokoto and Katsina states. Bauchi state reported the highest value (31.1%) which was approximately five times higher than the national value of 6% (Figure 16).

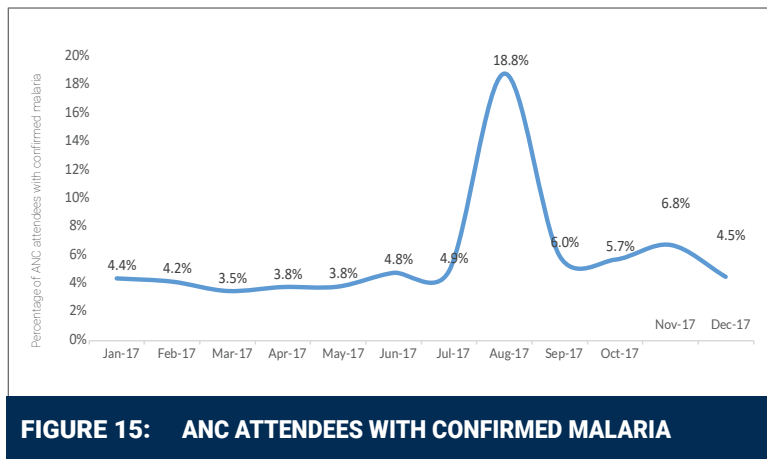


FIGURE 15: ANC ATTENDEES WITH CONFIRMED MALARIA

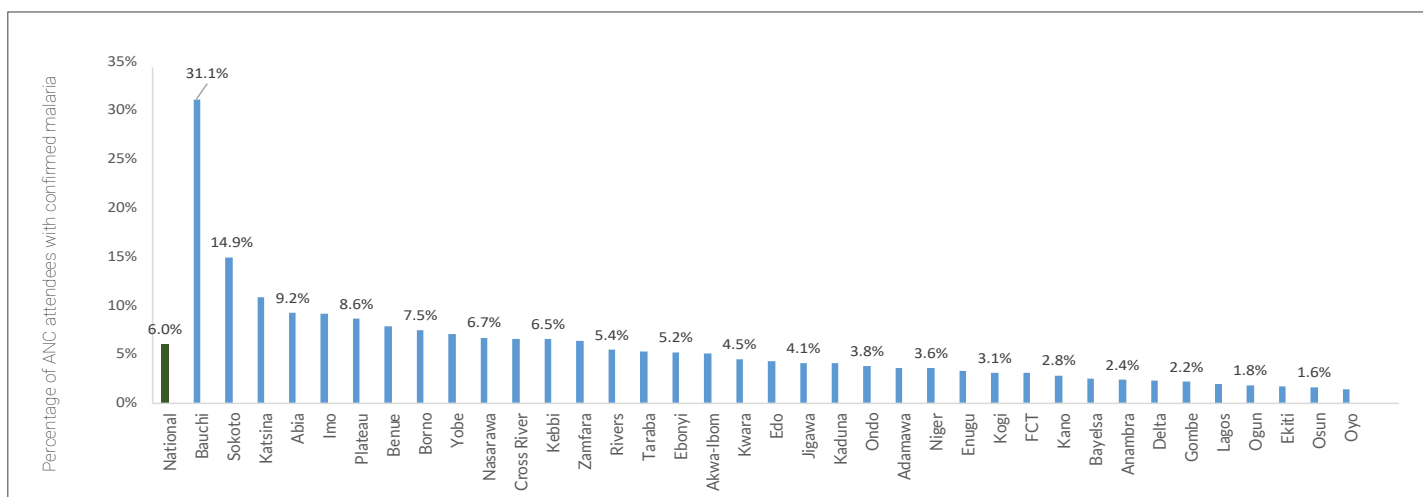


FIGURE 16: ANC ATTENDEES WITH CONFIRMED MALARIA DISTRIBUTED BY STATES

SKILLED BIRTH ATTENDANCE

In 2017, the percentage of births attended by skilled health personnel was 79.5%. Table 7 shows an increase in this percentage from 77% in January to 81.5% in December. Kano state reported that more than 100% of their births were attended by skilled health personnel, evidently showing the need for data validation of the reported value. Enugu state reported the lowest percentage as only about 1 in 3 deliveries at health facilities were attended by skilled birth attendants (Figure 17).

Table 7: Births attended by skilled health personnel

Period	Values
Jan-17	77.0%
Feb-17	74.8%
Mar-17	75.0%
Apr-17	76.1%
May-17	77.8%
Jun-17	80.2%
Jul-17	81.1%
Aug-17	83.0%
Sep-17	82.2%
Oct-17	83.2%
Nov-17	81.6%
Dec-17	81.5%



The percentage of births attended by skilled health attendants in 2017 was **79.5%**

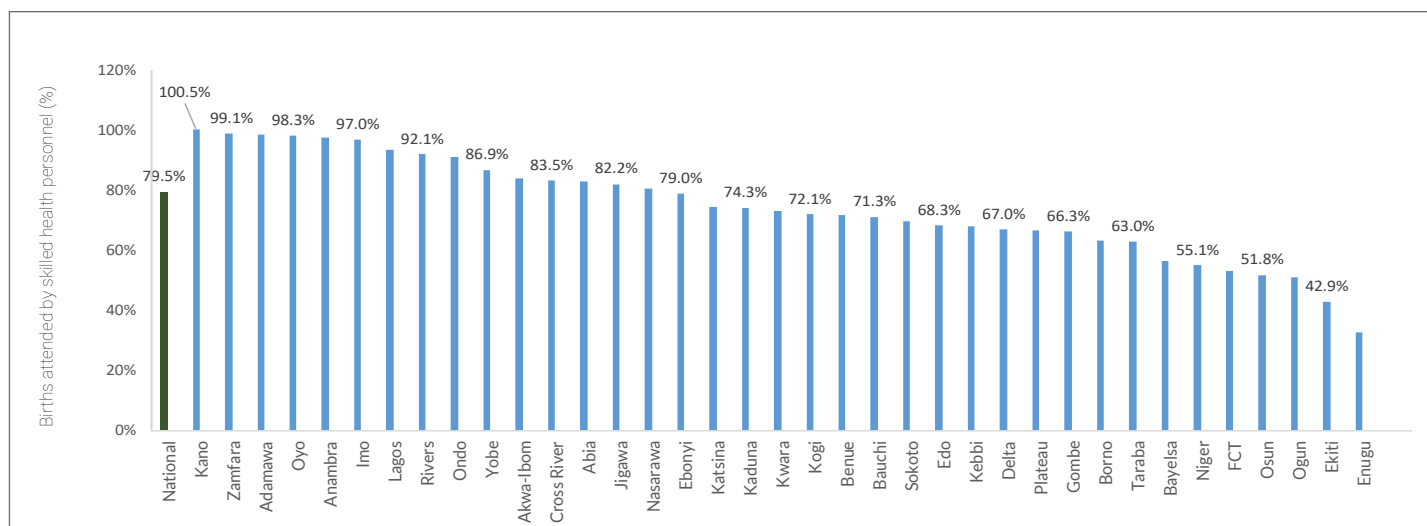


FIGURE 17: BIRTHS ATTENDED BY SKILLED HEALTH PERSONNEL DISTRIBUTED BY STATES

IMMUNIZATION COVERAGE RATES

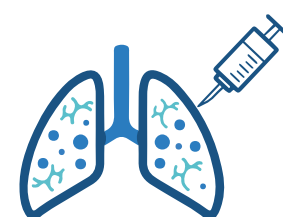
For several indicators under this programme area, many states reported coverage rates above 100%. The unlikely values above 100% may be ascribed to urbanization and population migration which gives a population size that is more than the projected population of affected states. The immunization coverage rates for 2017 are summarized in table 8.

Table 8: Immunization coverage rates

Period	BCG immunization coverage rate	Penta 3 coverage rate	Measles vaccine coverage rate	IPV coverage rate
Jan-17	81.3%	80.9%	81.8%	57.3%
Feb-17	85.7%	85.8%	87.8%	64.6%
Mar-17	87.6%	83.1%	84.4%	58.1%
Apr-17	78.6%	78.6%	83.7%	58.7%
May-17	72.3%	85.6%	88.3%	74.2%
Jun-17	69.5%	83.1%	83.3%	71.4%
Jul-17	93.1%	88.7%	92.5%	83.5%
Aug-17	87.6%	87.7%	85.9%	84.7%
Sep-17	83.8%	84.8%	83.2%	77.1%
Oct-17	89.0%	86.6%	85.0%	84.2%
Nov-17	88.2%	89.4%	90.5%	85.0%
Dec-17	76.9%	78.0%	74.4%	74.7%

BCG immunization coverage rate

Figure 18 shows the BCG immunization coverage rate in 2017 was 82.8%. The highest coverage rate (93%) was reported in July as seen in table 8. States like Nasarawa, FCT, Ogun, Rivers, Adamawa and Kaduna reported statistically inaccurate coverage rates above 100%. Kano and Borno states reported the least BCG coverage rates with values below 50% (Figure 18).



In 2017, analysis shows that the BCG coverage rate was **82.8%** across the country

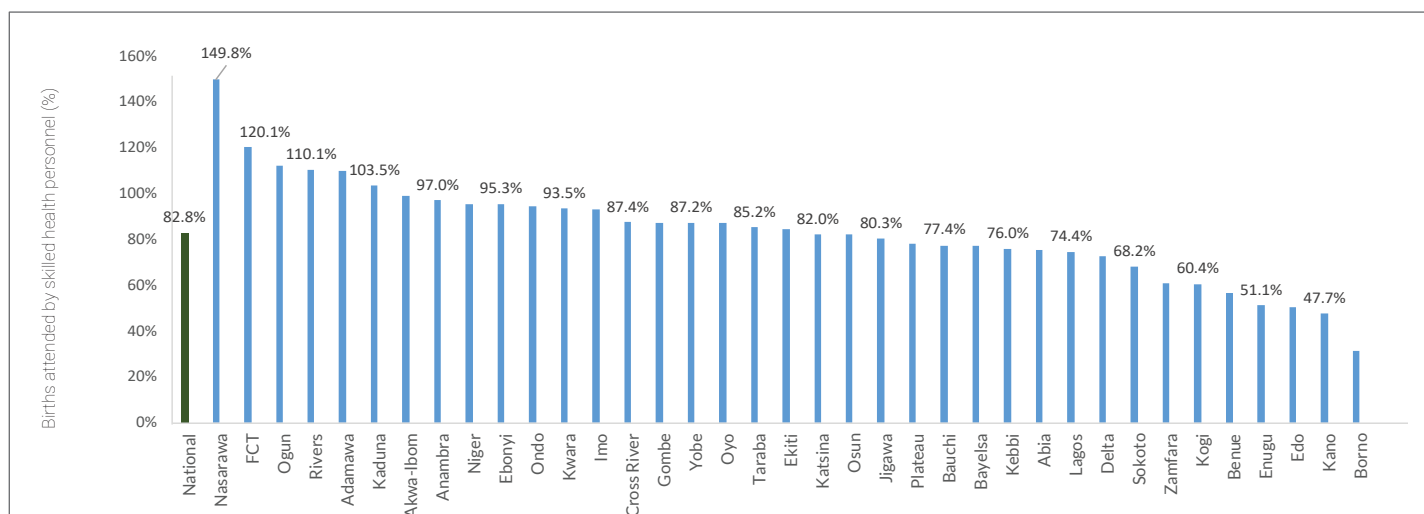
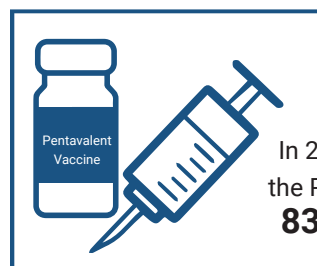


FIGURE 18: BCG COVERAGE RATE DISTRIBUTED BY STATES

IMMUNIZATION COVERAGE RATES

Penta 3 vaccination coverage

The highest coverage rate (89%) was reported in July and November, whilst the lowest coverage rate was reported in December (78%) as presented in table 8. FCT, Nasarawa, Kaduna, Adamawa, Yobe and Jigawa states reported unlikely values of more than 100% while Bayelsa state reported the lowest Penta 3 coverage rate at 28.4%. The Penta 3 coverage rate for 2017 was 83.9% (Figure 19).



In 2017, analysis shows that the Penta 3 coverage rate was **83.9%** across the country

For 2017, the national Penta dropout rate was 7.4% with Bayelsa state having the highest Penta dropout rate (see Figure 20).

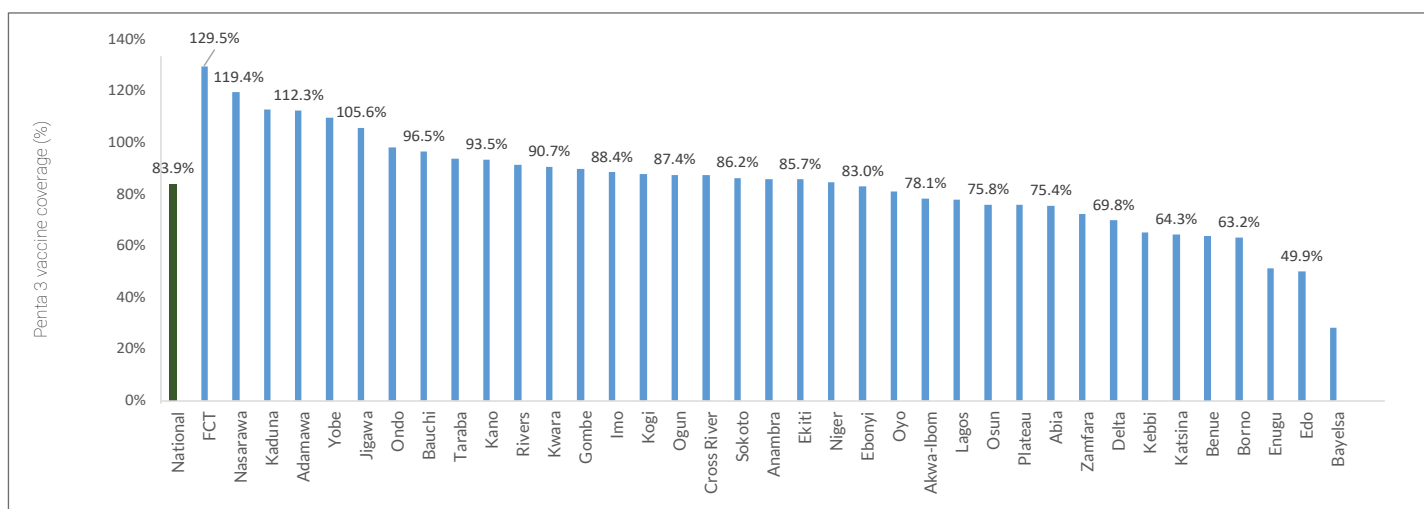


FIGURE 19: PENTA 3 VACCINATION COVERAGE RATE DISTRIBUTED BY STATES

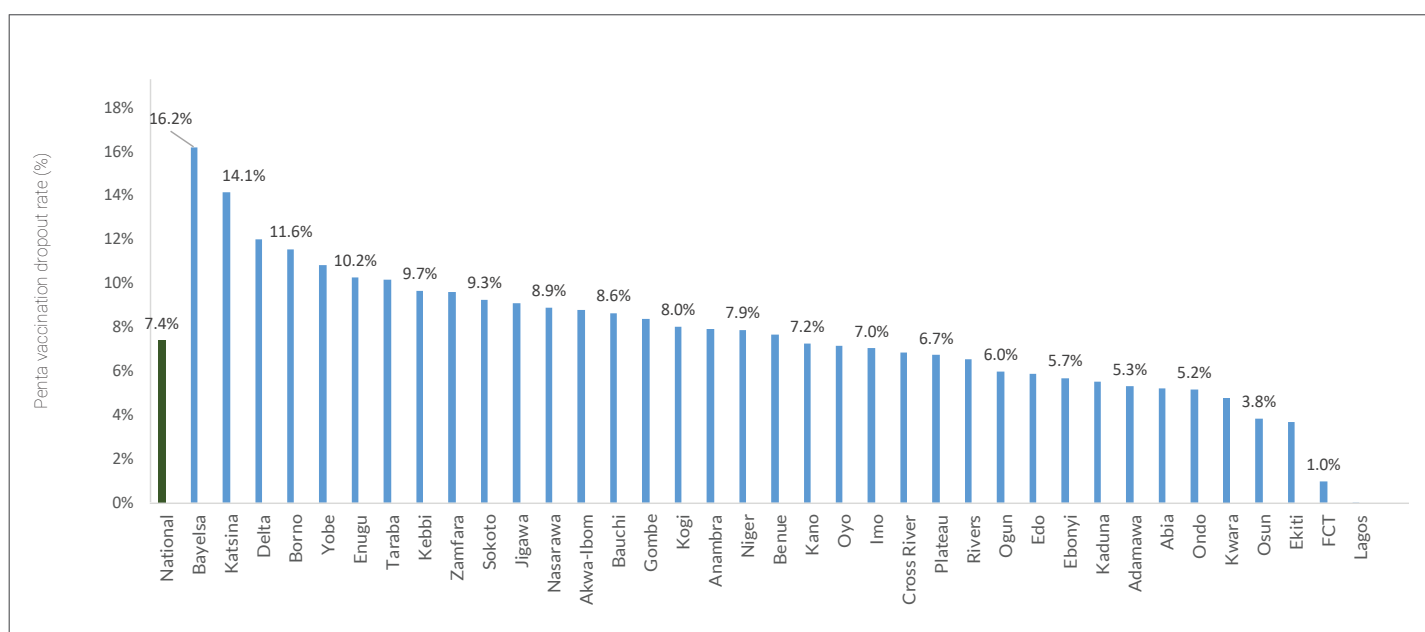


FIGURE 20: PENTA DROPOUT RATE DISTRIBUTED BY STATES

Measles dose coverage rate

Table 8 shows that the highest measles vaccination coverage rate was reported in July at 92% and the lowest in December (74%). Nasarawa, FCT, Kaduna, Adamawa, Yobe and Jigawa states reported measles vaccine coverage rate of more than 100%, which is unrealistic. Borno reported the lowest measles vaccine coverage rate of 33.9%. The overall measles vaccine coverage rate in 2017 was 85.4% (see Figure 21).

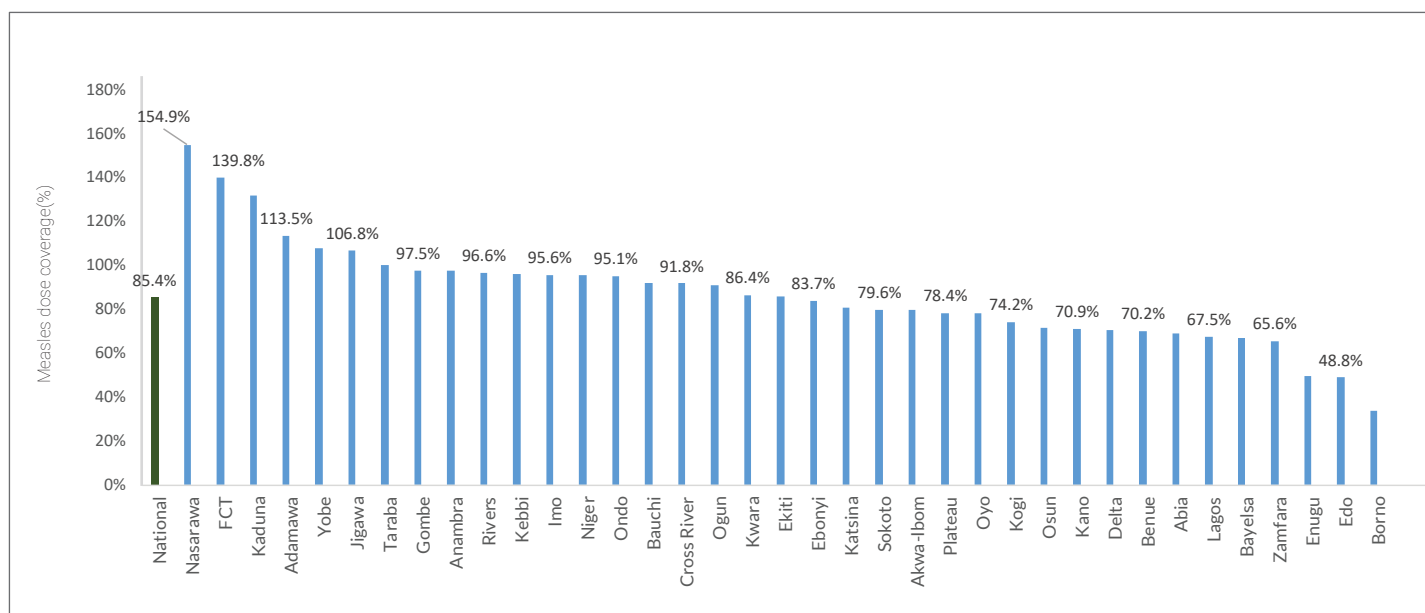
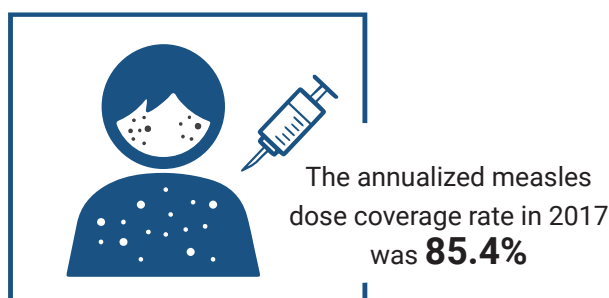


FIGURE 21: MEASLES DOSE COVERAGE RATE DISTRIBUTED BY STATES

IPV coverage rate

In 2017, the IPV coverage rate in the country was 72.9%. Nasarawa, FCT and Kaduna states reported IPV coverage rates above 100% which would require validation. Borno, Yobe, Benue, Jigawa and Kogi states reported very low IPV coverage rates (Figure 22). There is a need to improve these rates as the last reported polio case which was in 2016 was recorded in Borno state.



In 2017, the IPV coverage rate across the country was **72.9%**

IMMUNIZATION COVERAGE RATES

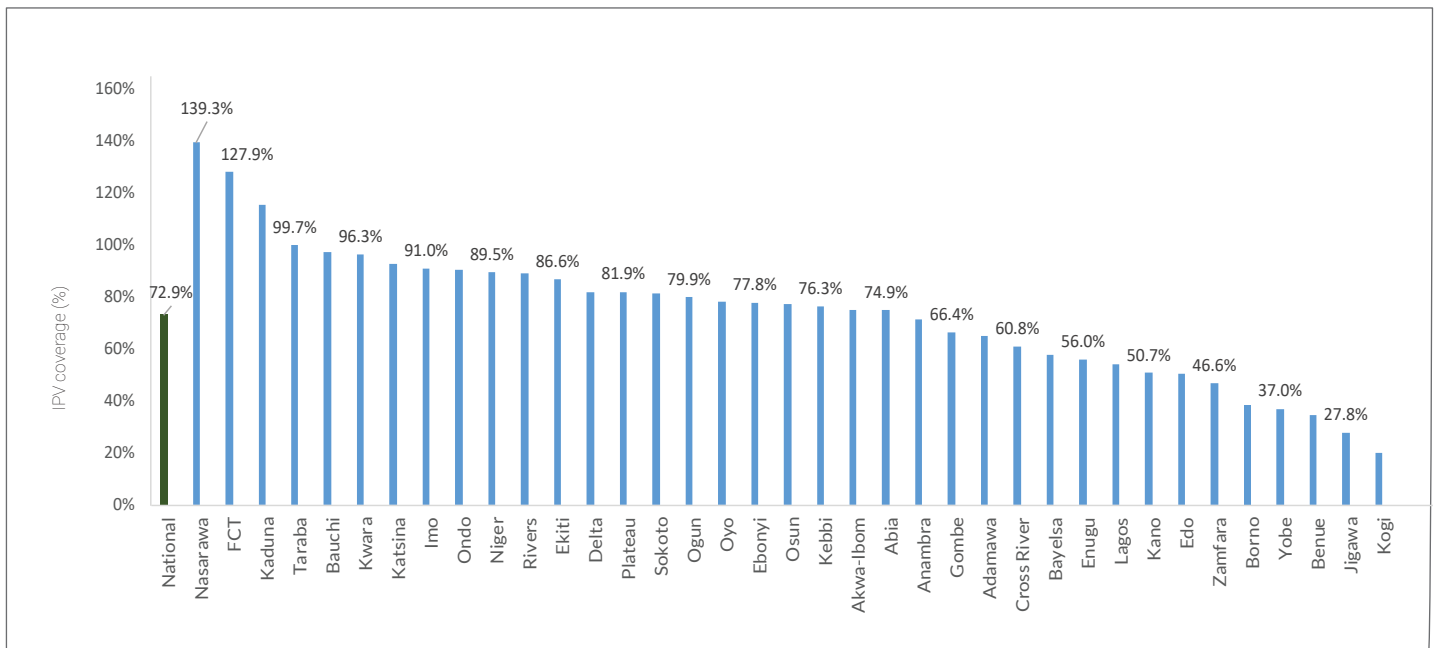
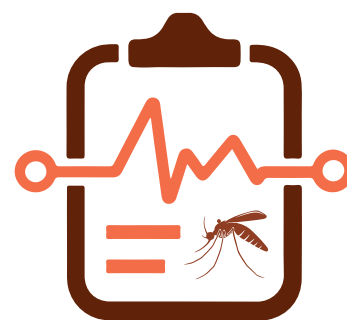
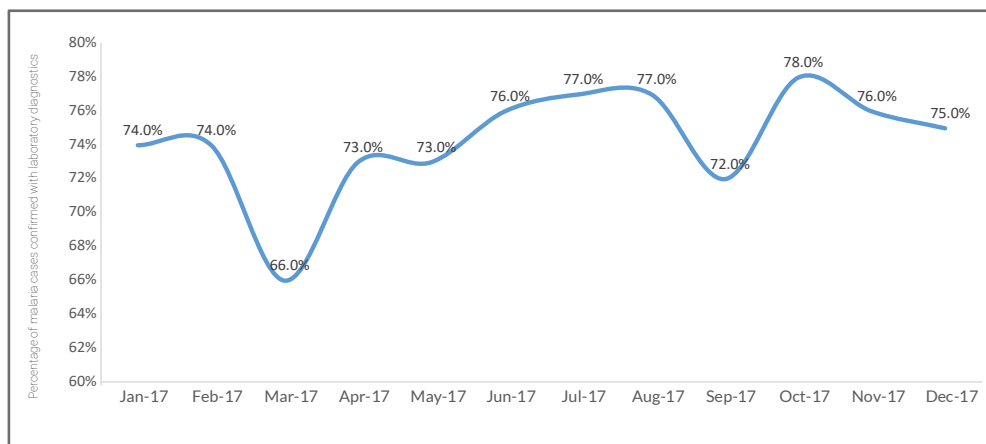


FIGURE 22: IPV COVERAGE RATE DISTRIBUTED BY STATES

Diagnosis

Diagnosis based on clinical features alone results in unconfirmed malaria cases which may lead to misuse of anti-malarial treatments and the emergence of drug-resistant strains. To avoid this, the WHO recommends diagnosis of all suspected malaria cases using microscopy or malaria Rapid Diagnostic Tests (RDT) before giving treatment.



Percentage of malaria cases confirmed with laboratory diagnostics nationwide in 2017 was **74.7%**

FIGURE 23: MALARIA CASES CONFIRMED WITH LABORATORY DIAGNOSTICS

In 2017, 74.7% of suspected malaria cases were confirmed with laboratory diagnostics. Edo state reported that 100.1% of malaria cases were diagnosed using either microscopy or RDT; this value needs validation. Delta state reported the lowest value for this indicator as seen in figure 24. Nationally, the lowest percentage was reported in March at 66% and the highest percentage at 78% in October (Figure 23).

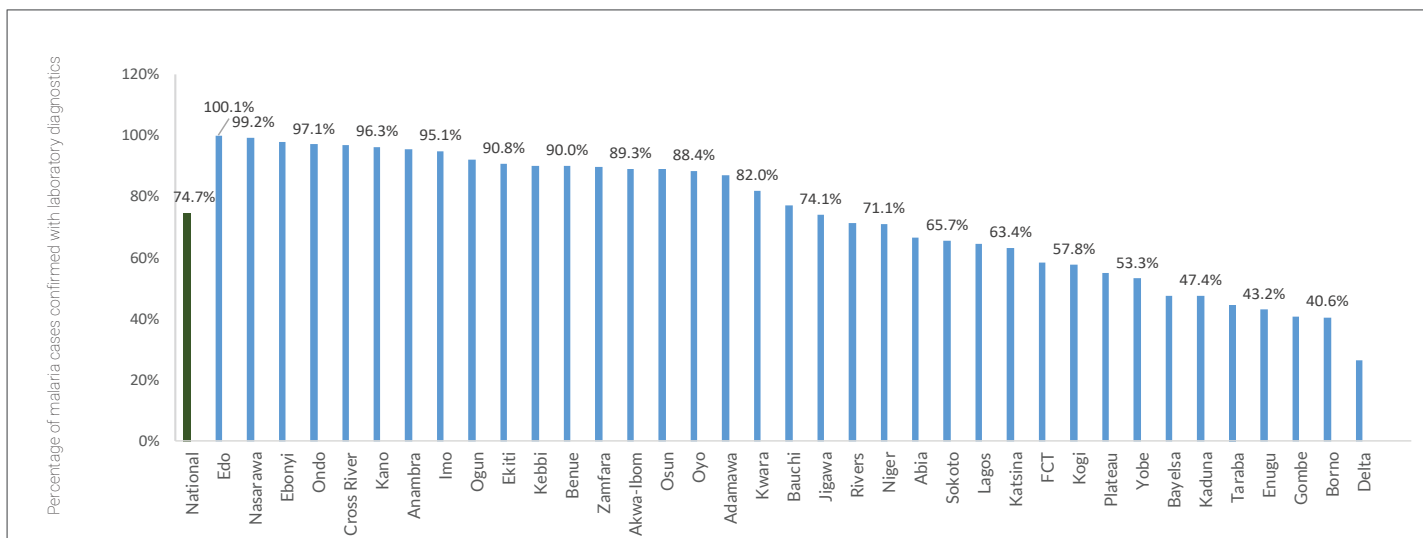
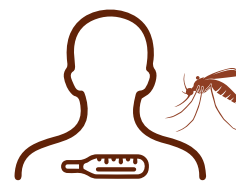


FIGURE 24: MALARIA CASES CONFIRMED WITH LABORATORY DIAGNOSTICS DISTRIBUTED BY STATES

Confirmed malaria cases

The lowest percentage of confirmed uncomplicated malaria cases was reported in April (66%) and the highest (78%) in September (table 9). All states reported values above 60%. Overall, in 2017, 72.7% of the recorded malaria cases were confirmed to be uncomplicated malaria cases (Figure 25).



72.7%
of reported malaria cases
were uncomplicated

Table 9: Percentage of confirmed uncomplicated malaria cases

Period	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17
Malaria Cases	70.0%	69.0%	67.0%	66.0%	69.0%	73.0%	75.0%	77.0%	78.0%	76.0%	73.0%	70.0%

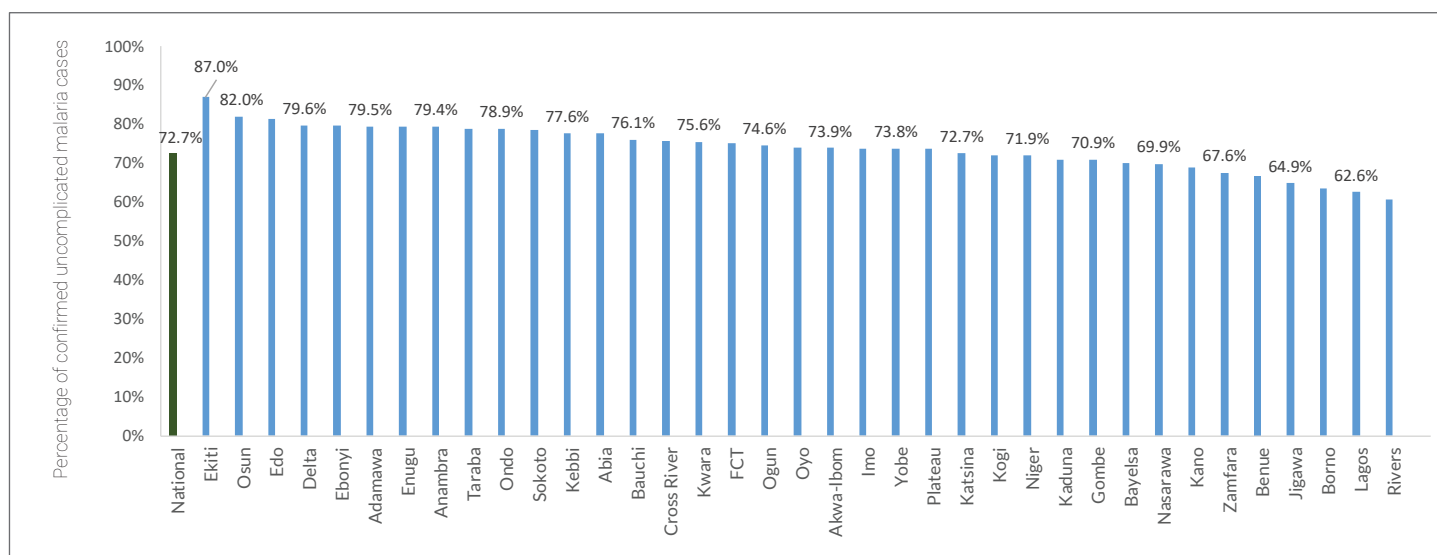


FIGURE 25: CONFIRMED UNCOMPLICATED MALARIA CASES DISTRIBUTED BY STATES

Test and Treat Strategy

The country has adopted the Test, Treat and Track (3T) strategy where all suspected cases of malaria properly diagnosed using Rapid Diagnostic Tests or microscopy, are treated promptly with recommended Artemisinin-based combination therapy (ACT) and documented.

APPENDIX A: INDICATORS AND THEIR DATA VALUES

Period	NHMIS Monthly Summary (version 2013) Reporting rate	Under 5 mortality rate(Facility)_per 1000	% of Under 5 deaths attributable to Malaria	% of Under 5 deaths attributable to Pneumonia	% of Under 5 deaths attributable to Diarrhoea	Underweight Rate (<5 years) - Facility _per 1000	Maternal mortality ratio(Facility)_per 100,000	Outpatient attendance	Antenatal 1st visits before 20 weeks rate
Jan-17	71.0%	12.0	46.0%	6.1%	21.4%	44.2	225.6	3272772	36.0%
Feb-17	71.0%	13.7	31.0%	12.3%	11.3%	54.2	276.6	4083925	36.0%
Mar-17	73.0%	15.5	50.0%	5.5%	14.6%	46.2	208.4	3284841	37.0%
Apr-17	74.0%	19.9	37.0%	7.8%	15.6%	46.8	309.1	3015222	38.0%
May-17	75.0%	17.3	36.0%	7.1%	19.1%	56.1	288.9	3494305	36.0%
Jun-17	75.0%	18.3	45.0%	5.1%	12.6%	51.4	221.5	3336244	37.0%
Jul-17	75.0%	20.0	48.0%	4.7%	16.0%	55.2	365.8	3875742	35.0%
Aug-17	75.0%	21.2	54.0%	4.8%	13.5%	52.8	268.9	4134951	35.0%
Sep-17	75.0%	22.2	55.0%	6.2%	12.4%	60.4	205.1	4026111	36.0%
Oct-17	76.0%	18.8	56.0%	4.9%	13.3%	51.3	269.9	4376977	36.0%
Nov-17	76.0%	17.3	51.0%	10.0%	13.7%	52.9	186.2	3725168	28.0%
Dec-17	76.0%	15.5	44.0%	8.7%	14.8%	50.3	325.0	3228253	37.0%

Period	ANC Anaemia Rate	% of Antenatal 1st Visits receiving LLIN	% of antenatal revisits receiving IPT2	% of ANC attendees with confirmed malaria	Births attended by skilled health personnel	Penta 3 Coverage (Annualized)	Measles Dose Coverage (Annualized)	% of malaria cases confirmed with laboratory diagnostics	% Confirmed uncomplicated Malaria
Jan-17	8.0%	36.0%	33.7%	4.4%	77.0%	81.0%	82.0%	74.0%	70.0%
Feb-17	9.0%	39.0%	34.4%	4.2%	74.8%	86.0%	88.0%	74.0%	69.0%
Mar-17	9.0%	36.0%	27.2%	3.5%	75.0%	83.0%	88.0%	66.0%	67.0%
Apr-17	8.0%	31.0%	32.5%	3.8%	76.1%	79.0%	84.0%	73.0%	66.0%
May-17	8.0%	28.0%	30.7%	3.8%	77.8%	86.0%	88.0%	73.0%	69.0%
Jun-17	9.0%	35.0%	31.3%	4.8%	80.2%	83.0%	83.0%	76.0%	73.0%
Jul-17	8.0%	29.0%	31.7%	4.9%	81.1%	89.0%	92.0%	77.0%	75.0%
Aug-17	11.0%	30.0%	31.3%	18.8%	83.0%	88.0%	86.0%	77.0%	77.0%
Sep-17	9.0%	30.0%	30.5%	6.0%	82.2%	85.0%	83.0%	72.0%	78.0%
Oct-17	9.0%	32.0%	31.0%	5.7%	83.2%	87.0%	85.0%	78.0%	76.0%
Nov-17	9.0%	26.0%	39.9%	6.8%	81.6%	89.0%	91.0%	76.0%	73.0%
Dec-17	8.0%	33.0%	31.3%	4.5%	81.5%	78.0%	74.0%	75.0%	70.0%

Organisation unit	NHMIS Monthly Summary (version 2013) Reporting rate	Under 5 mortality rate(Facility)_per 1000	% of Under 5 Deaths Malaria - Under 5	% of Under 5 Deaths Pneumonia	% of Under 5 Deaths Diarrhoea - Under 5	Underweight Rate (<5 years) - Facility (per 1000)	Maternal mortality ratio(Facility)_ (per 100,000)	Outpatient attendance	Antenatal 1st visits before 20 weeks rate
Abia	81.5%	2.8	43.2%	16.2%	13.5%	11.0	134.6	149205	38.1%
Adamawa	95.1%	5.2	50.8%	8.8%	13.3%	54.2	169.5	1714439	53.1%
Akwa-Ibom	90.8%	6.2	14.9%	17.6%	9.5%	18.8	288.1	512326	22.9%
Anambra	81.9%	1.8	38.5%	10.3%	23.1%	39.9	42.1	495532	37.3%
Bauchi	95.4%	22.0	71.7%	6.0%	11.3%	193.7	358.3	1747623	20.4%
Bayelsa	46.9%	9.5	25.0%	4.2%	8.3%	31.6	355.2	60894	30.9%
Benue	58.7%	8.0	54.3%	8.6%	15.2%	13.8	291.2	609314	44.7%
Borno	47.3%	19.8	18.5%	4.2%	10.3%	126.8	259.1	1060326	44.2%
Cross River	82.1%	6.8	53.7%	5.5%	16.5%	9.4	112.3	542558	34.4%
Delta	63.1%	5.9	39.5%	7.0%	25.4%	17.1	154.5	649806	38.7%
Ebonyi	84.4%	5.4	34.1%	8.0%	9.1%	25.0	146.9	641058	28.7%
Edo	65.2%	1.2	22.2%	11.1%	44.4%	14.7	150.8	290509	31.9%
Ekiti	84.1%	1.4	50.0%	25.0%	0.0%	6.4	23.6	240433	21.9%
Enugu	65.7%	16.1	58.3%	22.3%	9.9%	19.0	102.2	470727	35.3%
FCT	67.6%	2.5	26.6%	10.1%	21.5%	64.1	297.7	783782	38.4%
Gombe	76.8%	13.4	33.5%	6.5%	10.5%	218.3	389.1	1065812	34.2%
Imo	57.4%	4.4	33.3%	27.0%	7.9%	16.2	83.7	476362	38.6%
Jigawa	93.8%	30.2	51.1%	5.8%	11.0%	170.9	571.6	3290306	31.4%
Kaduna	76.7%	9.2	43.5%	4.5%	15.0%	58.5	161.3	1959239	31.9%
Kano	96.4%	10.2	54.0%	4.2%	11.5%	214.1	263.6	3603119	26.6%
Katsina	94.2%	41.3	53.1%	5.3%	16.3%	225.2	862.3	2779304	34.3%
Kebbi	97.7%	30.1	43.1%	5.8%	26.4%	416.4	589.1	860312	37.2%
Kogi	71.9%	4.5	25.5%	8.8%	15.7%	19.5	157.5	480761	40.7%
Kwara	70.3%	2.8	51.2%	7.0%	20.9%	34.9	45.2	515587	40.3%
Lagos	80.7%	4.7	10.3%	8.0%	11.1%	14.2	221.4	5083241	45.4%
Nasarawa	88.4%	4.0	57.1%	3.5%	12.6%	49.1	35.9	1215490	45.1%
Niger	86.8%	17.8	44.0%	5.9%	13.1%	42.1	352.5	1465942	42.7%
Ogun	80.8%	3.9	33.1%	6.3%	5.6%	19.9	158.0	944142	36.0%
Ondo	93.9%	2.0	40.3%	8.9%	4.0%	7.7	50.6	1383129	45.2%
Osun	91.9%	0.1	0.0%	0.0%	0.0%	17.6	29.2	650781	35.2%
Oyo	101.0%	1.8	19.6%	15.9%	7.5%	15.8	48.0	1813928	25.3%
Plateau	89.9%	28.3	63.6%	5.2%	16.4%	28.8	38.8	449004	30.7%
Rivers	79.9%	11.0	14.1%	12.0%	10.9%	8.2	217.7	540958	44.5%
Sokoto	99.5%	44.0	48.2%	7.5%	23.9%	460.5	284.2	2487829	41.6%
Taraba	88.1%	23.9	48.7%	7.4%	15.6%	130.9	418.9	472810	44.6%
Yobe	77.5%	21.9	43.1%	11.8%	14.7%	275.4	470.1	983838	40.6%
Zamfara	96.6%	32.5	26.8%	3.4%	17.8%	431.0	442.6	1186131	36.4%
National	82.6%	12.8	46.9%	6.7%	14.7%	51.9	262.3	4367657	35.3%

Organisation unit	ANC Anaemia Rate	% of Antenatal 1st Visits receiving LLIN	% of antenatal revisits receiving IPT2	% of ANC attendees with confirmed malaria	Births attended by skilled health personnel	Penta 3 Coverage (Annualized)	Measles Dose Coverage (Monthly)	% of malaria cases confirmed with laboratory diagnostics	% Confirmed uncomplicated Malaria
Abia	12.8%	13.4%	31.5%	9.2%	83.0%	75.4%	69.7%	66.6%	77.6%
Adamawa	5.9%	21.4%	43.6%	3.6%	98.9%	112.3%	113.5%	87.2%	79.5%
Akwa-Ibom	7.0%	69.9%	30.8%	5.1%	84.1%	78.1%	78.8%	89.3%	73.9%
Anambra	1.6%	62.6%	30.4%	2.4%	97.6%	85.8%	96.7%	95.5%	79.4%
Bauchi	13.2%	18.6%	72.0%	31.1%	71.3%	96.5%	91.8%	77.4%	76.1%
Bayelsa	7.8%	18.3%	7.0%	2.5%	56.5%	28.4%	31.4%	47.8%	70.1%
Benue	8.9%	63.5%	56.5%	7.9%	71.7%	63.8%	65.2%	90.0%	66.8%
Borno	9.9%	37.8%	99.0%	7.5%	63.2%	63.2%	67.4%	40.6%	63.6%
Cross River	6.5%	83.0%	45.7%	6.6%	83.5%	87.2%	91.4%	97.0%	75.6%
Delta	5.6%	12.2%	5.7%	2.3%	67.0%	69.8%	70.3%	26.6%	79.6%
Ebonyi	5.6%	53.6%	37.3%	5.2%	79.0%	83.0%	84.0%	98.0%	79.6%
Edo	7.0%	57.5%	19.3%	4.3%	68.3%	49.9%	47.5%	100.1%	81.5%
Ekiti	6.9%	68.6%	14.3%	1.7%	42.9%	85.7%	85.2%	90.8%	87.0%
Enugu	6.3%	10.8%	13.5%	3.3%	32.5%	51.2%	48.2%	43.2%	79.5%
FCT	6.5%	7.2%	20.8%	3.0%	53.2%	129.5%	139.6%	58.4%	75.2%
Gombe	7.5%	1.6%	9.6%	2.2%	66.3%	89.9%	97.4%	40.6%	70.9%
Imo	5.3%	51.6%	46.3%	9.1%	97.0%	88.4%	95.4%	95.1%	73.8%
Jigawa	11.7%	29.2%	29.8%	4.1%	82.2%	105.6%	106.7%	74.1%	64.9%
Kaduna	7.0%	39.7%	27.1%	4.1%	74.3%	113.0%	131.5%	47.4%	70.9%
Kano	7.5%	26.9%	47.1%	2.8%	100.5%	93.5%	80.5%	96.3%	68.9%
Katsina	13.2%	19.3%	35.0%	10.8%	74.5%	64.3%	73.9%	63.4%	72.7%
Kebbi	14.6%	39.0%	47.5%	6.5%	68.0%	65.0%	71.6%	90.3%	77.6%
Kogi	8.7%	29.5%	48.0%	3.1%	72.1%	87.8%	94.1%	57.8%	72.1%
Kwara	7.0%	13.2%	28.4%	4.5%	73.2%	90.7%	86.4%	82.0%	75.6%
Lagos	6.9%	29.1%	13.2%	1.9%	93.8%	77.8%	66.6%	64.6%	62.6%
Nasarawa	7.5%	26.1%	44.1%	6.7%	80.5%	119.4%	154.8%	99.2%	69.9%
Niger	6.0%	40.1%	25.8%	3.6%	55.1%	84.5%	95.4%	71.1%	71.9%
Ogun	10.0%	50.2%	18.3%	1.8%	51.0%	87.4%	90.3%	92.1%	74.6%
Ondo	4.1%	74.5%	31.1%	3.8%	91.3%	98.3%	95.3%	97.1%	78.9%
Osun	7.1%	67.5%	22.8%	1.6%	51.8%	75.8%	71.6%	89.1%	82.0%
Oyo	8.3%	42.2%	19.8%	1.4%	98.3%	81.0%	77.4%	88.4%	74.2%
Plateau	5.8%	15.6%	26.3%	8.6%	66.6%	75.8%	78.1%	55.1%	73.8%
Rivers	6.6%	52.4%	25.6%	5.4%	92.1%	91.2%	96.0%	71.5%	60.7%
Sokoto	24.8%	27.4%	49.3%	14.9%	69.7%	86.2%	80.1%	65.7%	78.5%
Taraba	10.9%	5.3%	15.3%	5.2%	63.0%	93.9%	99.9%	44.4%	79.0%
Yobe	14.4%	20.5%	36.7%	7.1%	86.9%	109.5%	108.0%	53.3%	73.8%
Zamfara	12.4%	56.8%	52.3%	6.4%	99.1%	72.2%	65.3%	89.8%	67.6%
National	8.8%	31.9%	31.9%	6.0%	79.5%	83.9%	84.9%	74.7%	72.7%

APPENDIX B: EXPECTED AND ACTUAL MONTHLY NHMIS REPORTS RECEIVED FROM STATES IN 2017

States	January			February			March		
	Actual Reports	Expected Report	Percent (%)	Actual Reports	Expected Report	Percent (%)	Actual Reports	Expected Report	Percent (%)
Abia State	717	939	76.4	687	939	73.2	684	939	72.8
Adamawa State	833	915	91	808	915	88.3	752	915	82.2
Akwa-Ibom State	544	583	93.3	527	583	90.4	537	583	92.1
Anambra state	652	879	74.2	637	879	72.5	639	879	72.7
Bauchi State	996	1166	85.4	1002	1166	85.9	1031	1166	88.4
Bayelsa State	139	301	46.2	153	301	50.8	146	301	48.5
Benue State	704	1306	53.9	644	1306	49.3	781	1306	59.8
Borno State	93	819	11.4	111	819	13.6	125	819	15.3
Cross River State	936	1297	72.2	954	1297	73.6	988	1297	76.2
Delta State	439	765	57.4	446	765	58.3	493	765	64.4
Ebonyi State	517	936	55.2	523	936	55.9	516	936	55.1
Edo State	370	791	46.8	332	791	42	385	791	48.7
Ekiti State	354	502	70.5	366	502	72.9	368	502	73.3
Enugu State	400	938	42.6	473	938	50.4	497	938	53
Federal Capital Territory	279	520	53.7	303	520	58.3	305	520	58.7
Federal Government	26461	38032	69.6	704	754	93.4	703	754	93.2
Gombe State	495	657	75.3	455	657	69.3	448	657	68.2
Imo State	619	1385	44.7	623	1385	45	632	1385	45.6
Jigawa State	616	717	85.9	618	717	86.2	642	717	89.5
Kaduna State	1094	1607	68.1	1109	1607	69	1125	1607	70
Kano State	1290	1362	94.7	1300	1362	95.4	1307	1362	96
Katsina State	1482	1631	90.9	1453	1631	89.1	1468	1631	90
Kebbi State	610	826	73.8	701	826	84.9	698	826	84.5
Kogi State	783	1169	67	653	1169	55.9	717	1169	61.3
Kwara State	391	690	56.7	360	690	52.2	446	690	64.6
Lagos State	1750	2720	64.3	1674	2720	61.5	1731	2720	63.6
Nasarawa State	876	980	89.4	758	980	77.3	752	980	76.7
Niger State	1206	1548	77.9	26349	38032	69.3	27085	38032	71.2
Ogun State	529	1206	43.9	1275	1548	82.4	1299	1548	83.9
Ondo State	591	909	65	565	1206	46.8	610	1206	50.6
Osun State	817	1140	71.7	588	909	64.7	600	909	66
Oyo State	1235	1380	89.5	777	1140	68.2	863	1140	75.7
Plateau State	923	1247	74	1227	1380	88.9	1234	1380	89.4
Rivers State	688	924	74.5	986	1247	79.1	1008	1247	80.8
Sokoto State	712	831	85.7	697	924	75.4	670	924	72.5
Taraba State	655	1131	57.9	737	831	88.7	737	831	88.7
Yobe State	426	561	75.9	705	1131	62.3	722	1131	63.8
Zamfara State	700	754	92.8	418	561	74.5	426	561	75.9

States	April			May			June		
	Actual Reports	Expected Report	Percent (%)	Actual Reports	Expected Report	Percent (%)	Actual Reports	Expected Report	Percent (%)
Abia State	685	939	72.9	672	939	71.6	685	939	72.9
Adamawa State	736	915	80.4	754	915	82.4	874	915	95.5
Akwa-Ibom State	543	583	93.1	537	583	92.1	545	583	93.5
Anambra state	660	879	75.1	658	879	74.9	676	879	76.9
Bauchi State	1025	1166	87.9	1047	1166	89.8	1039	1166	89.1
Bayelsa State	146	301	48.5	128	301	42.5	137	301	45.5
Benue State	864	1306	66.2	845	1306	64.7	882	1306	67.5
Borno State	152	819	18.6	170	819	20.8	187	819	22.8
Cross River State	977	1297	75.3	927	1297	71.5	867	1297	66.8
Delta State	502	765	65.6	540	765	70.6	541	765	70.7
Ebonyi State	527	936	56.3	530	936	56.6	530	936	56.6
Edo State	347	791	43.9	466	791	58.9	494	791	62.5
Ekiti State	369	502	73.5	395	502	78.7	391	502	77.9
Enugu State	612	938	65.2	683	938	72.8	673	938	71.7
Federal Capital Territory	324	520	62.3	332	520	63.8	329	520	63.3
Federal Government	678	754	89.9	694	754	92	689	754	91.4
Gombe State	422	657	64.2	443	657	67.4	484	657	73.7
Imo State	615	1385	44.4	631	1385	45.6	642	1385	46.4
Jigawa State	621	717	86.6	644	717	89.8	649	717	90.5
Kaduna State	1124	1607	69.9	1135	1607	70.6	1168	1607	72.7
Kano State	1296	1362	95.2	1293	1362	94.9	1313	1362	96.4
Katsina State	1478	1631	90.6	1519	1631	93.1	1454	1631	89.1
Kebbi State	703	826	85.1	740	826	89.6	689	826	83.4
Kogi State	713	1169	61	827	1169	70.7	827	1169	70.7
Kwara State	421	690	61	436	690	63.2	482	690	69.9
Lagos State	1724	2720	63.4	1698	2720	62.4	1682	2720	61.8
Nasarawa State	796	980	81.2	784	980	80	783	980	79.9
Niger State	27292	38032	71.8	27744	38032	72.9	27848	38032	73.2
Ogun State	1266	1548	81.8	1257	1548	81.2	1260	1548	81.4
Ondo State	644	1206	53.4	651	1206	54	657	1206	54.5
Osun State	604	909	66.4	622	909	68.4	626	909	68.9
Oyo State	820	1140	71.9	839	1140	73.6	854	1140	74.9
Plateau State	1250	1380	90.6	1250	1380	90.6	1255	1380	90.9
Rivers State	1039	1247	83.3	1032	1247	82.8	989	1247	79.3
Sokoto State	726	924	78.6	705	924	76.3	640	924	69.3
Taraba State	732	831	88.1	738	831	88.8	747	831	89.9
Yobe State	735	1131	65	717	1131	63.4	715	1131	63.2
Zamfara State	416	561	74.2	405	561	72.2	393	561	70.1

States	July			August			September		
	Actual Reports	Expected Report	Percent	Actual Reports	Expected Report	Percent	Actual Reports	Expected Report	Percent
Abia State	664	939	70.7	674	939	71.8	675	939	71.9
Adamawa State	873	915	95.4	874	915	95.5	873	915	95.4
Akwa-Ibom State	535	583	91.8	534	583	91.6	530	583	90.9
Anambra state	676	879	76.9	673	879	76.6	680	879	77.4
Bauchi State	1045	1166	89.6	1080	1166	92.6	1072	1166	91.9
Bayelsa State	29	301	9.6	38	301	12.6	68	301	22.6
Benue State	899	1306	68.8	858	1306	65.7	725	1306	55.5
Borno State	186	819	22.7	168	819	20.5	185	819	22.6
Cross River State	936	1297	72.2	932	1297	71.9	975	1297	75.2
Delta State	455	765	59.5	466	765	60.9	450	765	58.8
Ebonyi State	533	936	56.9	521	936	55.7	513	936	54.8
Edo State	427	791	54	456	791	57.6	485	791	61.3
Ekiti State	395	502	78.7	381	502	75.9	402	502	80.1
Enugu State	653	938	69.6	696	938	74.2	690	938	73.6
Federal Capital Territory	305	520	58.7	306	520	58.8	310	520	59.6
Federal Government	686	754	91	699	754	92.7	692	754	91.8
Gombe State	498	657	75.8	502	657	76.4	454	657	69.1
Imo State	644	1385	46.5	636	1385	45.9	619	1385	44.7
Jigawa State	651	717	90.8	643	717	89.7	674	717	94
Kaduna State	1177	1607	73.2	1157	1607	72	1163	1607	72.4
Kano State	1309	1362	96.1	1317	1362	96.7	1317	1362	96.7
Katsina State	1493	1631	91.5	1500	1631	92	1533	1631	94
Kebbi State	689	826	83.4	678	826	82.1	691	826	83.7
Kogi State	746	1169	63.8	823	1169	70.4	793	1169	67.8
Kwara State	481	690	69.7	490	690	71	510	690	73.9
Lagos State	1748	2720	64.3	1779	2720	65.4	1791	2720	65.8
Nasarawa State	815	980	83.2	790	980	80.6	790	980	80.6
Niger State	2758	38032	7.3	27976	38032	73.6	27971	38032	73.5
Ogun State	1242	1548	80.2	1231	1548	79.5	1230	1548	79.5
Ondo State	667	1206	55.3	666	1206	55.2	672	1206	55.7
Osun State	640	909	70.4	670	909	73.7	673	909	74
Oyo State	831	1140	72.9	808	1140	70.9	835	1140	73.2
Plateau State	1251	1380	90.7	1264	1380	91.6	1283	1380	93
Rivers State	1006	1247	80.7	1090	1247	87.4	1061	1247	85.1
Sokoto State	692	924	74.9	678	924	73.4	652	924	70.6
Taraba State	748	831	90	745	831	89.7	745	831	89.7
Yobe State	717	1131	63.4	734	1131	64.9	737	1131	65.2
Zamfara State	416	561	74.2	419	561	74.7	423	561	75.4

States	October			November			December		
	Actual Reports	Expected Report	Percent	Actual Reports	Expected Report	Percent	Actual Reports	Expected Report	Percent
	Abia State	601	939	64	695	939	74	690	939
Adamawa State	877	915	95.8	871	915	95.2	876	915	95.7
Akwa-Ibom State	531	583	91.1	505	583	86.6	521	583	89.4
Anambra state	673	879	76.6	668	879	76	666	879	75.8
Bauchi State	1083	1166	92.9	1066	1166	91.4	1083	1166	92.9
Bayelsa State	157	301	52.2	193	301	64.1	203	301	67.4
Benue State	799	1306	61.2	825	1306	63.2	785	1306	60.1
Borno State	218	819	26.6	216	819	26.4	200	819	24.4
Cross River State	967	1297	74.6	954	1297	73.6	969	1297	74.7
Delta State	454	765	59.3	387	765	50.6	432	765	56.5
Ebonyi State	547	936	58.4	540	936	57.7	544	936	58.1
Edo State	540	791	68.3	486	791	61.4	468	791	59.2
Ekiti State	404	502	80.5	410	502	81.7	406	502	80.9
Enugu State	617	938	65.8	561	938	59.8	605	938	64.5
Federal Capital Territory	297	520	57.1	324	520	62.3	312	520	60
Federal Government	691	754	91.6	707	754	93.8	709	754	94
Gombe State	463	657	70.5	490	657	74.6	510	657	77.6
Imo State	640	1385	46.2	664	1385	47.9	669	1385	48.3
Jigawa State	668	717	93.2	651	717	90.8	667	717	93
Kaduna State	1159	1607	72.1	1153	1607	71.7	1158	1607	72.1
Kano State	1323	1362	97.1	1323	1362	97.1	1314	1362	96.5
Katsina State	1510	1631	92.6	1538	1631	94.3	1535	1631	94.1
Kebbi State	727	826	88	721	826	87.3	714	826	86.4
Kogi State	789	1169	67.5	830	1169	71	826	1169	70.7
Kwara State	510	690	73.9	502	690	72.8	510	690	73.9
Lagos State	1807	2720	66.4	1796	2720	66	1796	2720	66
Nasarawa State	804	980	82	812	980	82.9	857	980	87.4
Niger State	28377	38032	74.6	28277	38032	74.4	28364	38032	74.6
Ogun State	1379	1548	89.1	1351	1548	87.3	1348	1548	87.1
Ondo State	667	1206	55.3	653	1206	54.1	659	1206	54.6
Osun State	675	909	74.3	674	909	74.1	677	909	74.5
Oyo State	828	1140	72.6	800	1140	70.2	764	1140	67
Plateau State	1275	1380	92.4	1272	1380	92.2	1219	1380	88.3
Rivers State	1044	1247	83.7	1061	1247	85.1	1081	1247	86.7
Sokoto State	724	924	78.4	671	924	72.6	692	924	74.9
Taraba State	744	831	89.5	748	831	90	742	831	89.3
Yobe State	749	1131	66.2	730	1131	64.5	730	1131	64.5
Zamfara State	436	561	77.7	429	561	76.5	427	561	76.1