



FEDERAL MINISTRY OF
HEALTH

National Health Management
Information Systems (NHMIS)

ANNUAL REPORT

Data Analysis of Key Health Indicators
January-December 2021

Table of Contents

Table of Contents.....	2
List of Figures.....	2
List of Abbreviations.....	4
Preface.....	5
Background.....	6
Facility Reporting Rate.....	8
Outpatient Attendance.....	9
Reproductive Health.....	10
Antenatal Care (ANC)	10
Long Lasting Insecticide-treated Nets (LLIN)	11
Intermittent Preventive Treatment: first dose (IPT1)	12
Intermittent Preventive Treatment: second dose (IPT2)	13
Morbidity in Pregnancy.....	13
Anaemia	13
Skilled Birth Attendance.....	14
Maternal Mortality.....	15
Immunisation Coverage Rates.....	16
BCG Coverage	16
Penta 3 Coverage	17
Measles Immunisation	19
Inactivated Polio Vaccine (IPV) Coverage Rate	19
Under-Five Nutrition.....	20
Under-Five Mortality.....	21
Malaria.....	22
Diagnosis	22
Confirmed Malaria Cases	24
Appendix A: Indicators and Their Data Values.....	25
Appendix B: Expected and Actual Monthly NHMIS Reports Received From States.....	30

List of Figures

Figure 1: NHMIS 2021 reporting rate.....	9
--	---



Figure 2: NHMIS 2021 reporting rate by states.....	9
Figure 3: Outpatient attendance in 2021.....	10
Figure 4: Antenatal 1st visits before 20 weeks.....	11
Figure 5: Antenatal 1st visits receiving LLIN.....	12
Figure 6: Antenatal 1st visits receiving IPT1.....	12
Figure 7: Antenatal 1st visits receiving IPT2.....	13
Figure 8: ANC Anaemia rate.....	14
Figure 9: Births attended by skilled health personnel.....	15
Figure 10: Births attended by skilled health personnel distributed by state.....	15
Figure 11: Facility-based maternal deaths distributed by states.....	16
Figure 12: Facility-based maternal deaths distributed by geopolitical zones.....	16
Figure 13: BCG coverage (annualised) distributed by state.....	17
Figure 14: Penta 3 coverage (annualised) distributed by state.....	18
Figure 15: Penta 3 dropout rate (annualised) distributed by state...	18
Figure 16: Measles coverage rate distributed by state.....	19
Figure 17: IPV coverage rate distributed by state.....	20
Figure 18: Underweight rate among under 5 children distributed by states	21
Figure 19: Underweight rate among under 5 children distributed by geopolitical zones.....	21
Figure 20: Under 5 mortality (per 1,000) rates.....	22
Figure 21: Facility-based under 5 deaths (per 1,000) distributed by states.....	22
Figure 22: Malaria cases confirmed with laboratory diagnostics.....	23
Figure 23: Malaria cases confirmed with laboratory diagnostics by states.	24
Figure 24: Confirmed Uncomplicated Malaria Cases.....	24



List of Abbreviations

ANC	Antenatal care
ART	Antiretroviral Therapy
CH	Child Health
DHIS2	District Health Information System Version 2
DHPRS	Department of Health Planning, Research and Statistics
FMoH	Federal Ministry of Health
GBV	Gender-Based Violence
HCT	HIV Counselling and Testing
HIS	Health Information System
HIV	Human Immunodeficiency Virus
HMH	Honourable Minister of Health
HMIS	Health Management Information System
IDSR	Integrated Disease Surveillance and Response
IMCI	Integrated Management of Childhood Illnesses
IPC	Inpatient Care
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
NSHDP	National Strategic Health Development Plan
NTDs	Neglected Tropical Diseases
Penta	Pentavalent Vaccine
RDT	Rapid Diagnostic Test
RMNCH	Reproductive, Maternal, Newborn and Child Health



TB	Tuberculosis
WHO	World Health Organization

Preface

The National Health Policy (2006) recognizes that the Health Information System (HIS) is an essential and major thrust of the health system in Nigeria, as the quality of life of the Nigerian population can only be assessed based on accurate and complete information. The goal of the National Health Management Information System (NHMIS) is to establish



an effective Health Management Information System (HMIS) at all government levels.

The 2014 Health Information System policy aimed to strengthen HIS in the country while also encouraging the use of health information at the community, health facility, local government, state and national levels. This was intended to foster ownership of health data, thereby positively impacting the health system. The 56th National Council of Health (NCH) approved the use of harmonised NHMIS tools with a single national instance for routine data reporting - DHIS2, domiciled at the Department of Health Planning, Research and Statistics (DHPRS), Federal Ministry of Health.

In 2013, the District Health Information System 2 (DHIS2), an open software package, was introduced in Nigeria as the data management tool of the NHMIS for the monthly aggregation of service statistics from health facilities.

This report provides a summary of routine data reported by health facilities on the DHIS2 platform. 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 adequate information to aid decision-making and support continuous monitoring of health programs.

Background

The NHMIS formed the backbone for monitoring results achieved from the implementation of the National Strategic Health Development Plan (NSHDP). It provides information on health service delivery and its supporting health system, in a timely and reliable manner. It is equipped



to improve data capture, storage, analysis and report generation for health data in Nigeria.

The National Health Management Information System (NHMIS) was first established in 1993. In 2006, multiple vertical reporting tools and systems were harmonised. Following this, key programmatic indicators in the health sector were incorporated into the NHMIS as captured in the NHMIS policy (2006).

There are currently about 8 reporting monthly forms available on the DHIS2 platform and they include:

1. NHMIS Monthly Summary (version 2013 and 2019)
2. Anti-Retroviral Treatment (ART) Monthly Summary Form
3. Community Monthly Summary Form
4. HIV Counselling and Testing (HCT) Monthly Summary Form
5. Health Facility Immunization
6. Health Facility Vaccines Utilisation Summary
7. IDSR 003 - Integrated Disease Surveillance and Response (IDSR), and
8. Routine Immunisation Supplementary Dataset.

In the NHMIS Monthly Summary Form (version 2013); the thematic areas for monthly reporting are;

- | | |
|-------------------------------|---------------------------|
| 1. Health Facility Attendance | 12. Laboratory |
| 2. Maternal Health | 13. Admissions |
| 3. Pregnancy Outcomes | 14. Pharmaceutical |
| 4. Immunisation | service |
| 5. Nutrition | 15. Adverse Drug Reaction |
| 6. Malaria Prevention (LLIN) | 16. Mortality |
| 7. Integrated Management of | 17. Human |
| Childhood Illnesses (IMCI) | Immunodeficiency Virus |
| 8. Family Planning | (HIV) |
| 9. Referrals | 18. Tuberculosis (TB) |
| 10. Non-communicable | 19. Malaria and |
| diseases | Integrated Services |
| 11. Sexually transmitted | 20. Commodity |
| infections | Availability |

The 2019 version of the NHMIS Monthly Summary Form was launched by the Honourable Minister of Health (HMH) in December 2019, and facilities have transitioned successfully to use the new tool. The thematic areas for monthly reporting on this form are;



- | | |
|--|--|
| 1. Health Facility Attendance | 11. Non-Communicable Diseases |
| 2. Inpatient care (IPC) | 12. Malarial Services |
| 3. Mortality (Deaths) | 13. Tuberculosis Screening |
| 4. Maternal Health (Ante-Natal Care) | 14. Hepatitis B Screening and Treatment Services |
| 5. Newborn Health (Outcome of pregnancy) | 15. Hepatitis C Screening and Treatment Services |
| 6. Immunisation (Antigen received) | 16. Gender-Based Violence (GBV) Care Services |
| 7. Nutrition/ Growth Monitoring & Promotion for under-fives | 17. Obstetric Fistula Services |
| 8. Child Health and Integrated Management of Childhood Illnesses (CH & IMCI) | 18. Neglected Tropical Diseases (NTDs) |
| 9. Family Planning | 19. Pharmacovigilance/Adverse Drug Reaction |
| 10. Referrals | |

The health facility NHMIS/Monitoring & Evaluation (M&E) focal person collates the paper-based daily registers for the previous month and populates the monthly summary form accordingly. The completed monthly summary form is submitted to the Local Government Area (LGA) office by the 7th day of the current month which is the deadline for submission. The submitted data is then entered into the DHIS2 system by the LGA M&E focal person on or before the 14th day of the current month.

To enhance data accuracy, validation rules were set up in the DHIS2. Furthermore, the State M&E officer conducts regular data quality assurance measures at the facility level as well as the submitted data on the DHIS2 platform to check for data inconsistencies and take corrective measures as necessary. The Federal Ministry of Health (FMOH) conducts quarterly data quality assessment at the state and facility level. The generated data are analysed on a monthly basis to facilitate data use and decision-making by policymakers and other relevant stakeholder.

Facility Reporting Rate

The chart below depicts the reporting rates in the country. The NHMIS reporting rate for the period in review was about 80% (see figure 2).

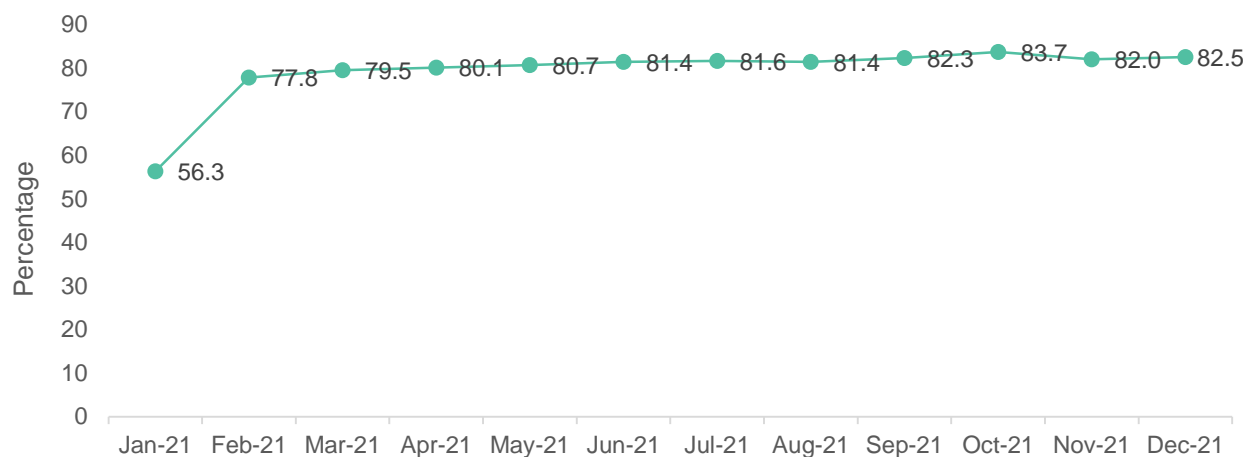


Figure 1: NHMIS 2021 reporting rate



Figure 2: NHMIS 2021 reporting rate by states

Outpatient Attendance

Outpatient attendance is an important indicator when considering service utilisation. In 2021, the total number of outpatient visits recorded in Nigeria was 52,200,000, and Kano state reported the highest attendance rate (figure 3).



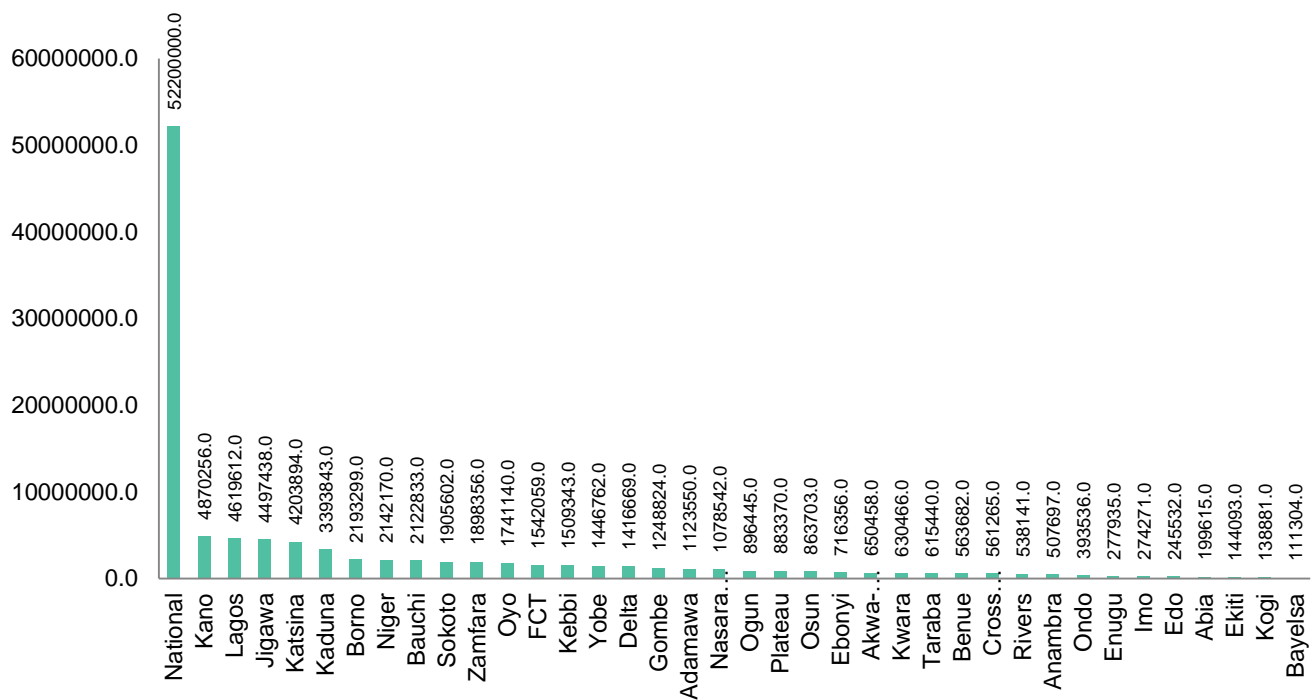


Figure 3: Outpatient attendance in 2021

Reproductive Health

Antenatal Care (ANC)

Only an estimated 34% of pregnant women visited antenatal clinics before their 20th week of pregnancy in 2021 (Figure 4). The value for this indicator has dropped since 2020 and the state values are also generally low.

The absence of ANC has been linked to a higher risk of complications and adverse birth outcomes. This emphasises the need to strengthen nationwide advocacy programmes to encourage early ANC registration and attendance.

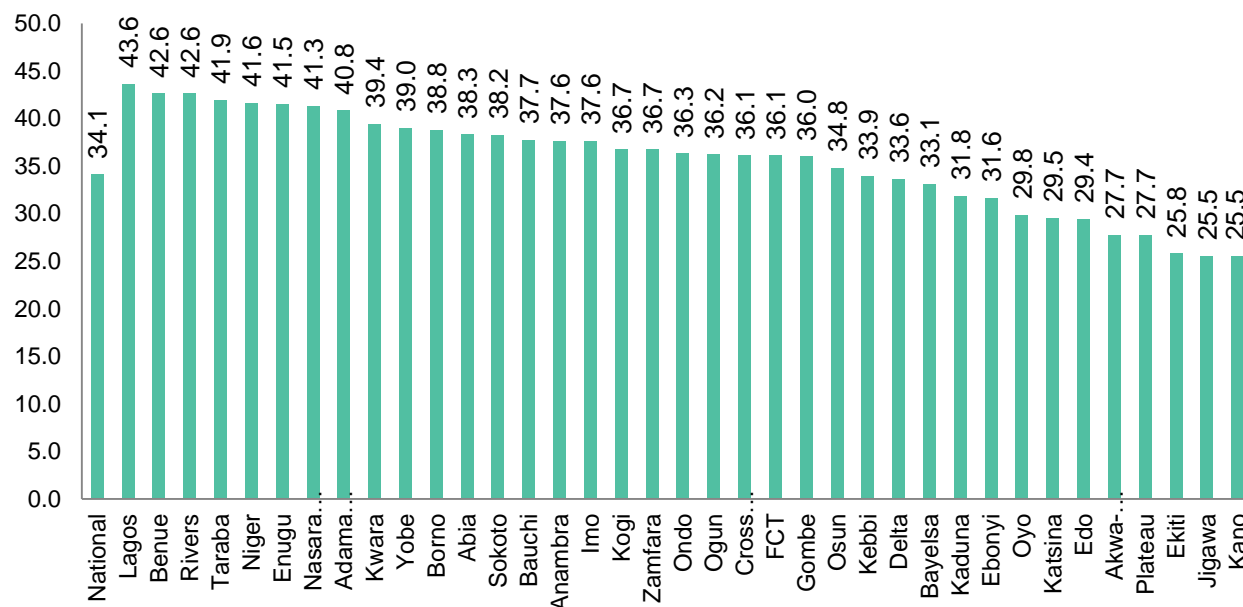


Figure 4: Antenatal 1st visits before 20 weeks

Long Lasting Insecticide-treated Nets (LLIN)

Malaria in pregnancy significantly contributes to perinatal morbidity and mortality and can be associated with higher rates of miscarriage, premature delivery, low-birth-weight neonates, and neonatal death. Thus, the importance of LLIN should be continuously emphasised nationwide, and appropriate interventions should be carried out to increase its distribution.

In comparison with the previous years, the coverage of routine antenatal services in 2021 experienced a further decline as only about 23% of ANC attendees received LLIN on their first antenatal visit (Figure 5).

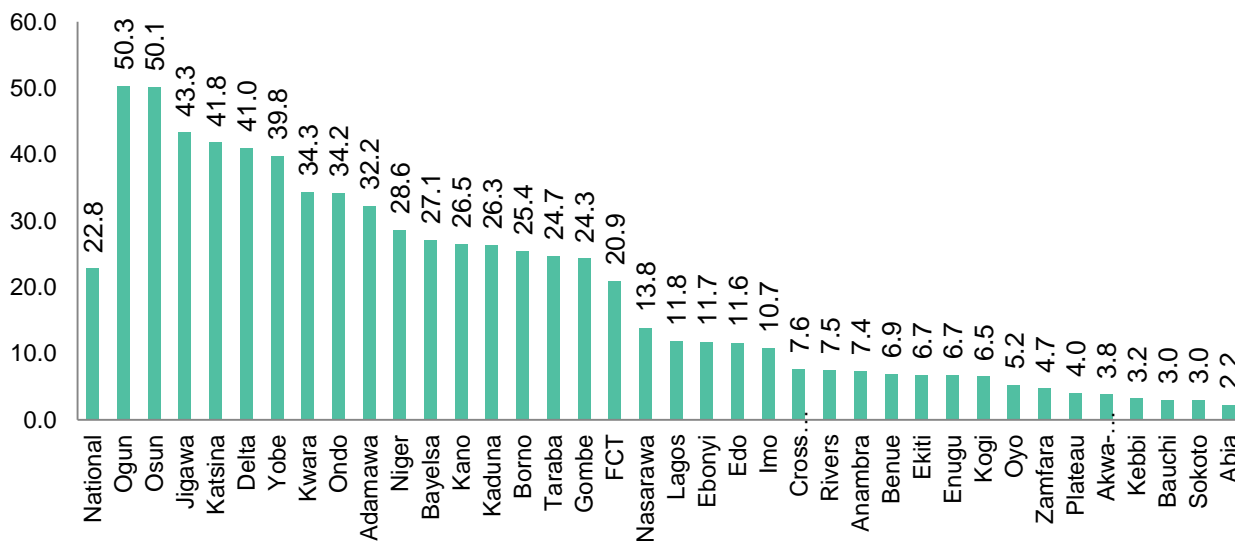


Figure 5: Antenatal 1st visits receiving LLIN

Intermittent Preventive Treatment: first dose (IPT1)

The World Health Organisation (WHO) recommends the Intermittent Preventive Treatment for all pregnant women during their 2nd trimester in Malaria endemic regions. In figure 6

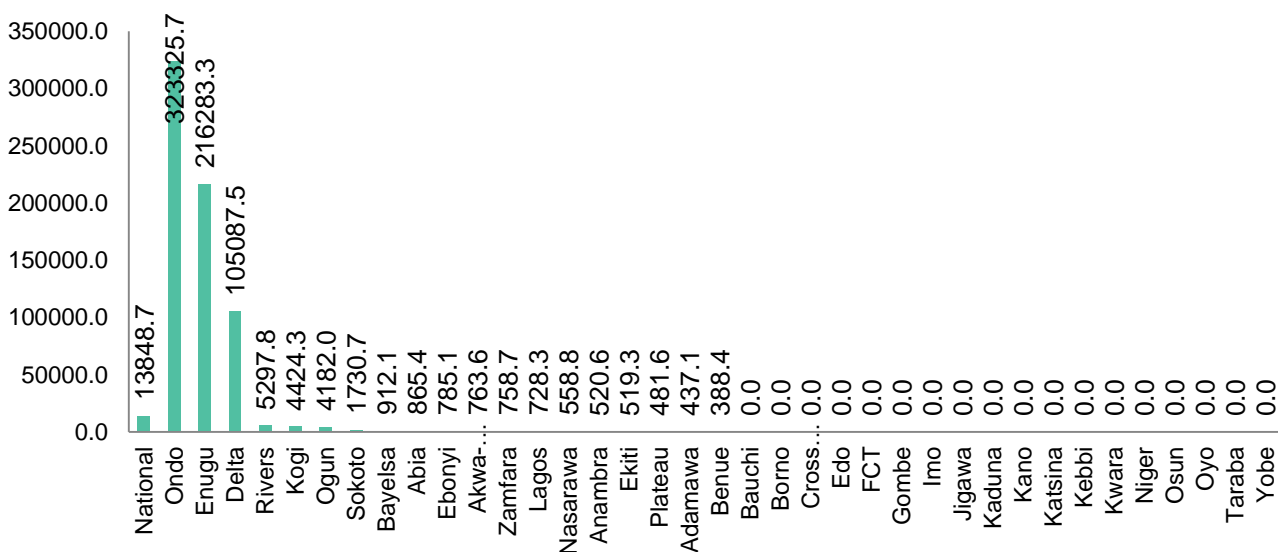


Figure 6: Antenatal 1st visits receiving IPT1

Intermittent Preventive Treatment: second dose (IPT2)

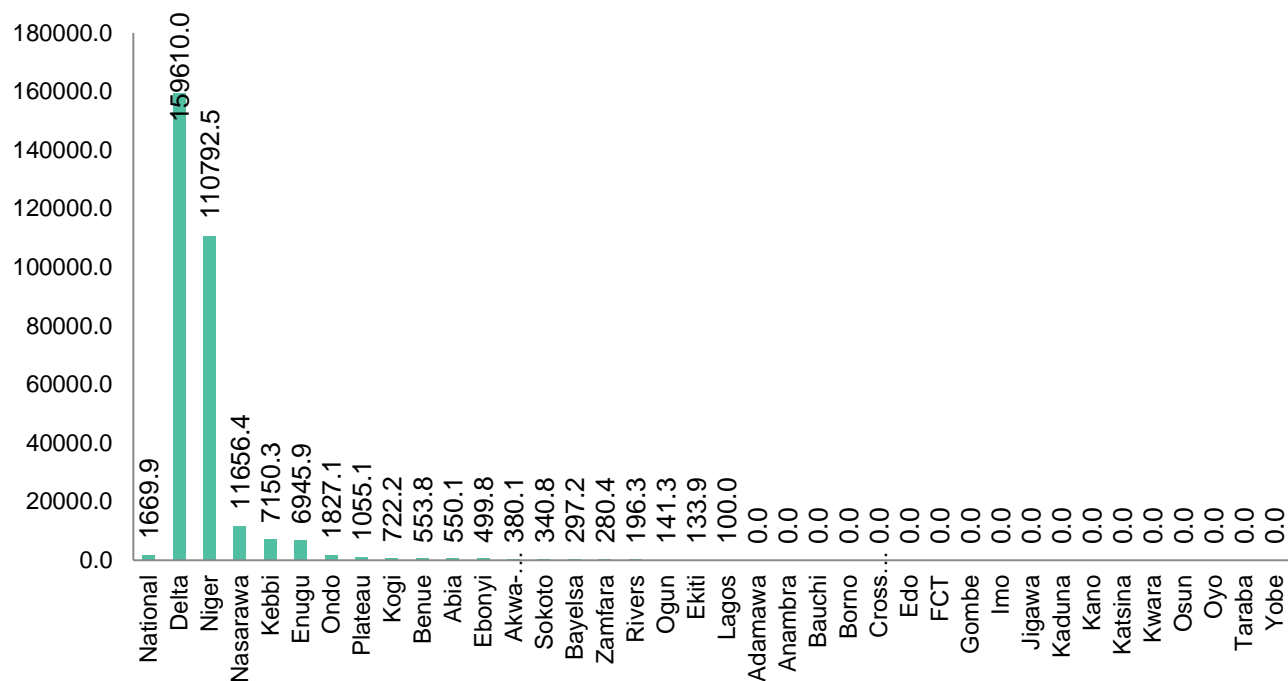


Figure 7: Antenatal 1st visits receiving IPT2

Morbidity in Pregnancy

Anaemia

Anaemia in pregnancy is a risk factor for intrauterine growth retardation, leading to poor neonatal health and perinatal death. In 2021, 8.3% of women attending ANC were diagnosed with anaemia.

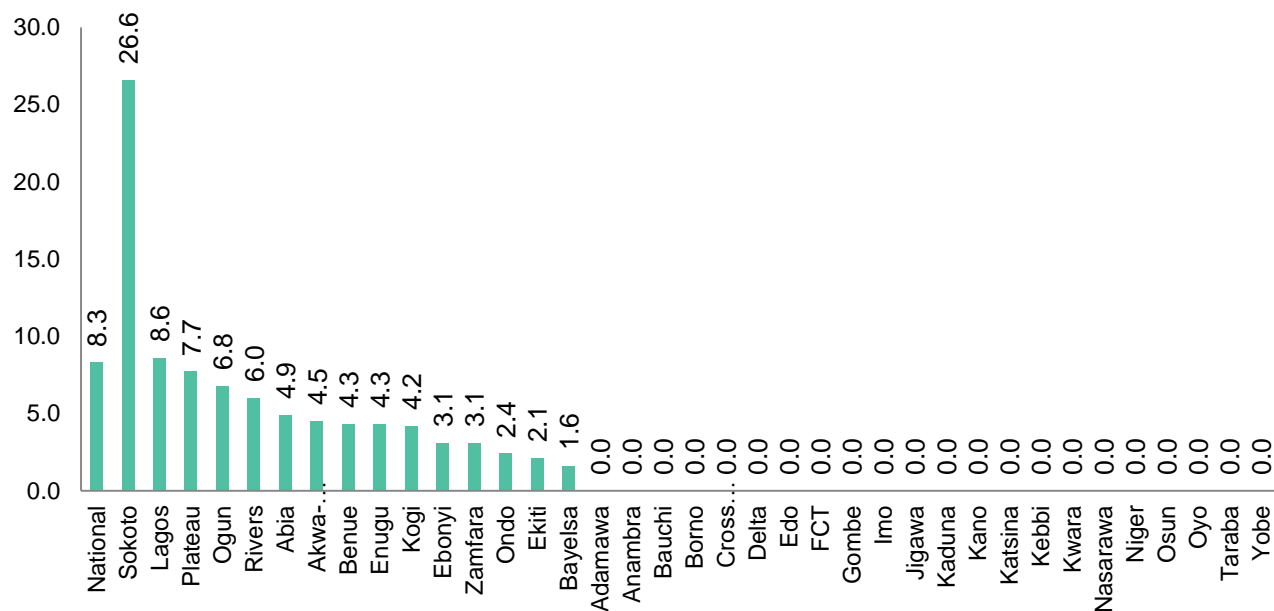


Figure 8: ANC Anaemia rate

Skilled Birth Attendance

Nationwide, an estimated 77% of births at health facilities were attended by skilled health personnel in 2021. Throughout the reporting year, the values for this indicators were above 70% (Figure 9), with the highest occurring in January (80.4%). Among the states, Osun reported the lowest with 17.4% (Figure 10).

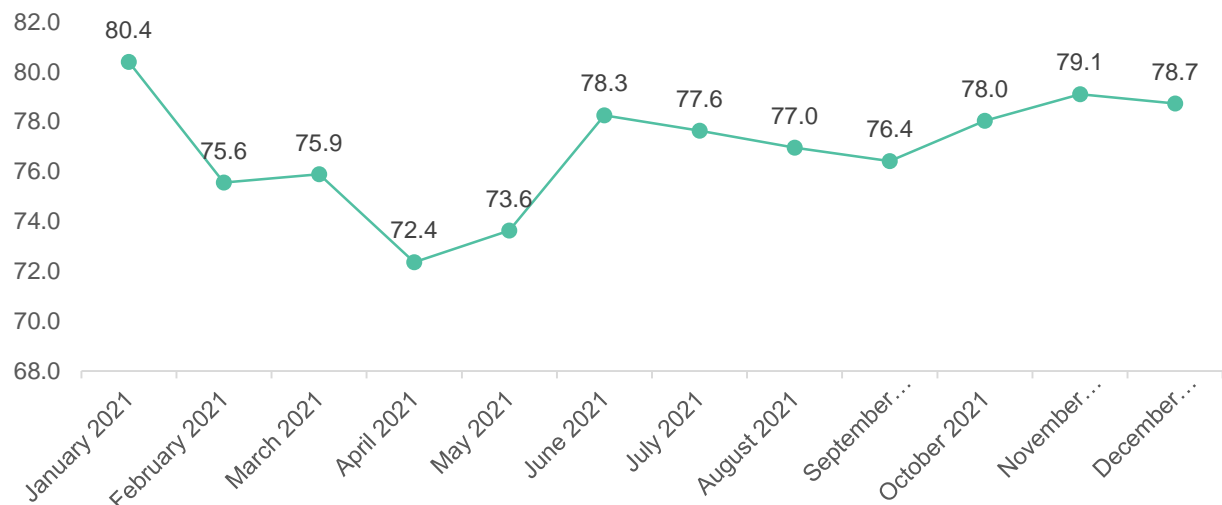


Figure 9: Births attended by skilled health personnel

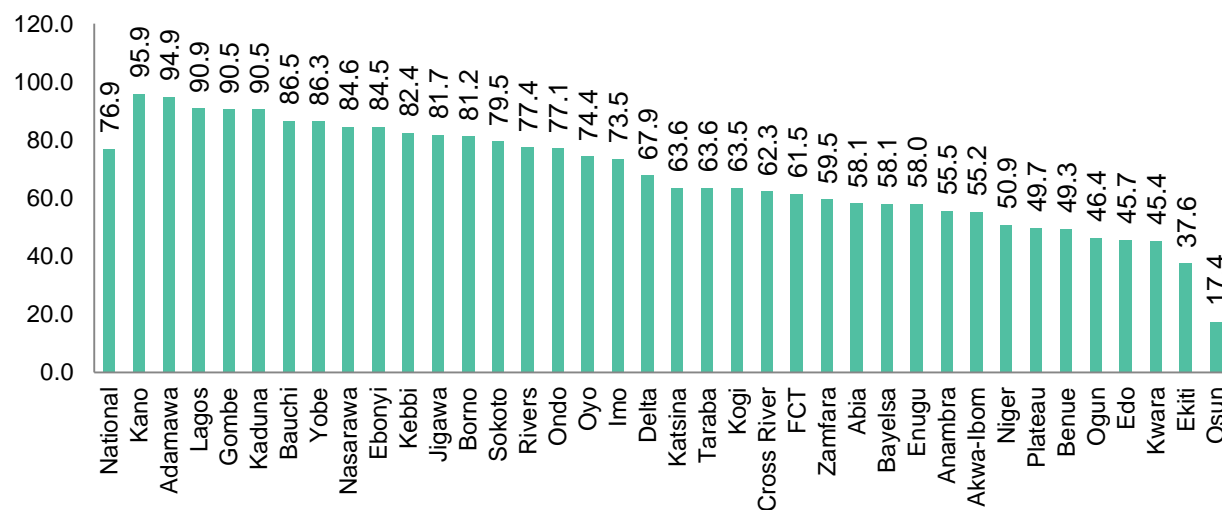


Figure 10: Births attended by skilled health personnel distributed by state

Maternal Mortality

The national facility-based maternal mortality was 712 deaths per 100,000 live births, which is a significant increase from 195.8 deaths per 100,000 live births in 2020, and 598.2 deaths per 100,000 live births in 2019. Figure 12 indicates that the South-East and North-East had the highest maternal mortality ratios.

The values for this indicator are calculated exclusively based on deaths that occurred at health facilities reporting on the national instance.



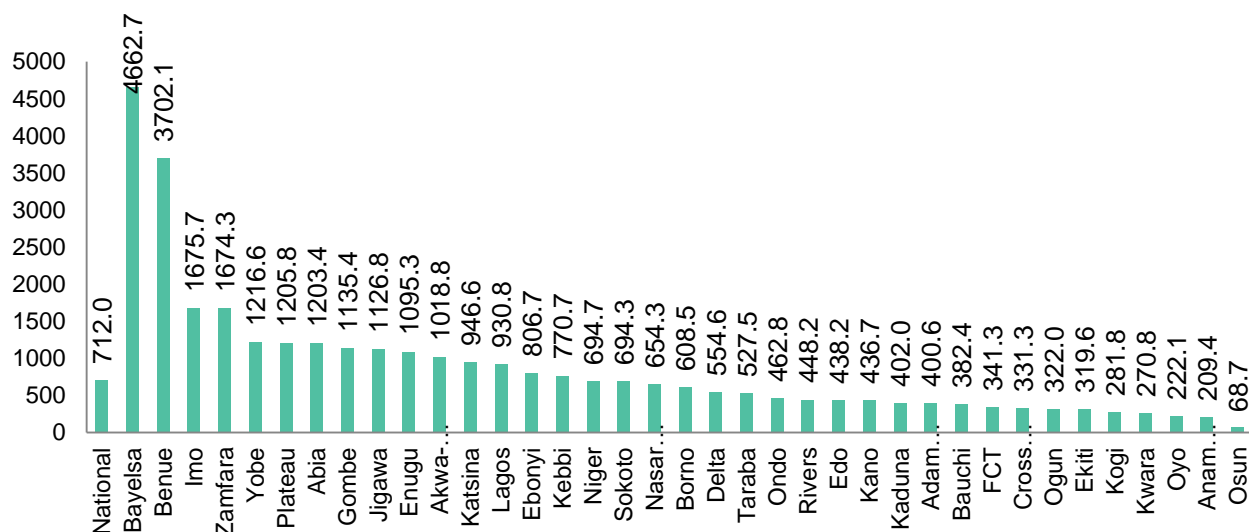


Figure 11: Facility-based maternal deaths distributed by states

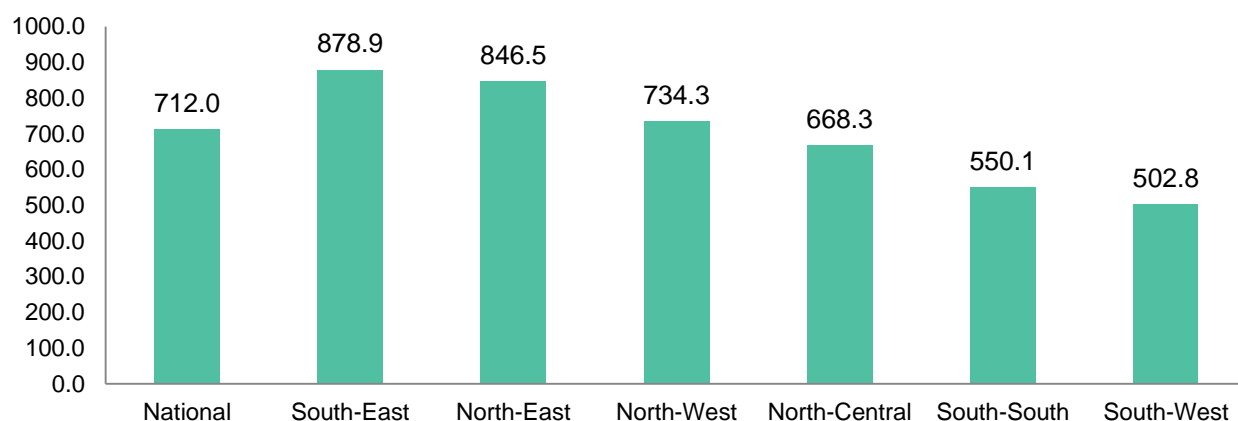


Figure 12: Facility-based maternal deaths distributed by geopolitical zones

Immunisation Coverage Rates

BCG Coverage

The BCG immunisation coverage rate in 2021 was 74.3% (Figure 13). The FCT and Adamawa state reported statistically inaccurate coverage rates resulting from disparities between the number of people immunised and their catchment population on the DHIS2.



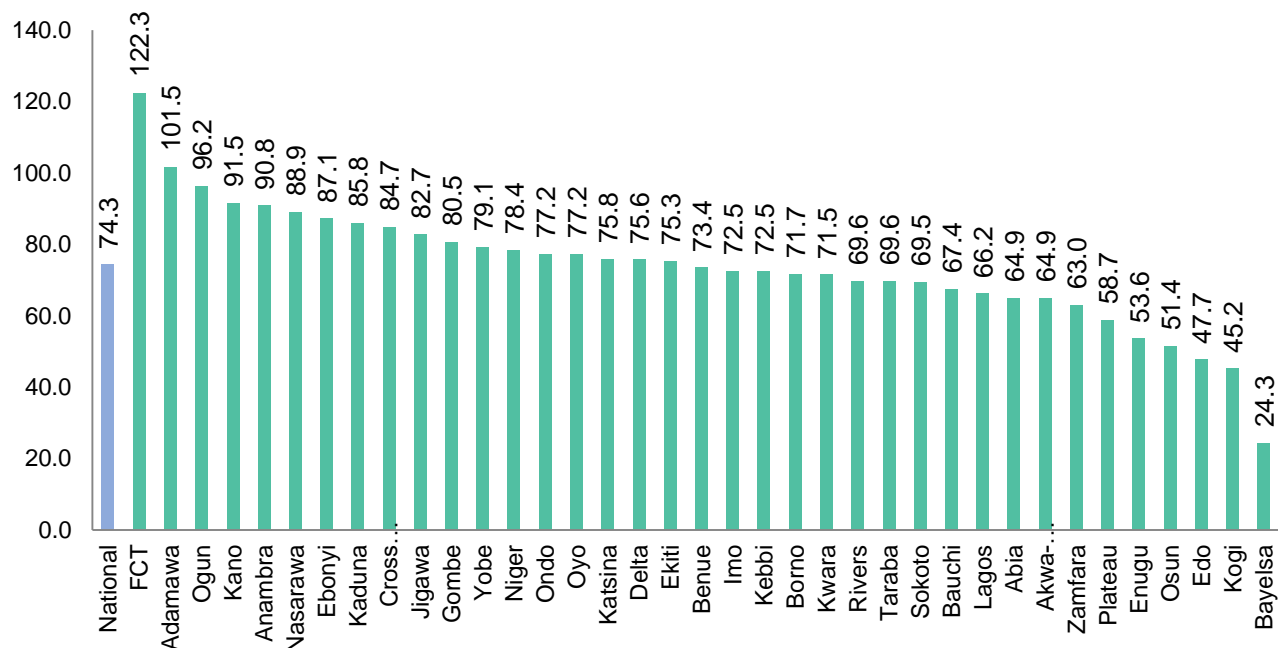


Figure 13: BCG coverage (annualised) distributed by state

Penta 3 Coverage

Figure 14 shows that the Penta 3 vaccination coverage in 2021 was 72.7%, a reduction from 76.6% reported in 2020 and 82% in 2019.

The total Penta 3 dropout rate in 2021 was 5.6%. Katsina and Zamfara states experienced the highest dropout rates, while Niger state had the lowest dropout rate with a negative figure and should be investigated (Figure 15).

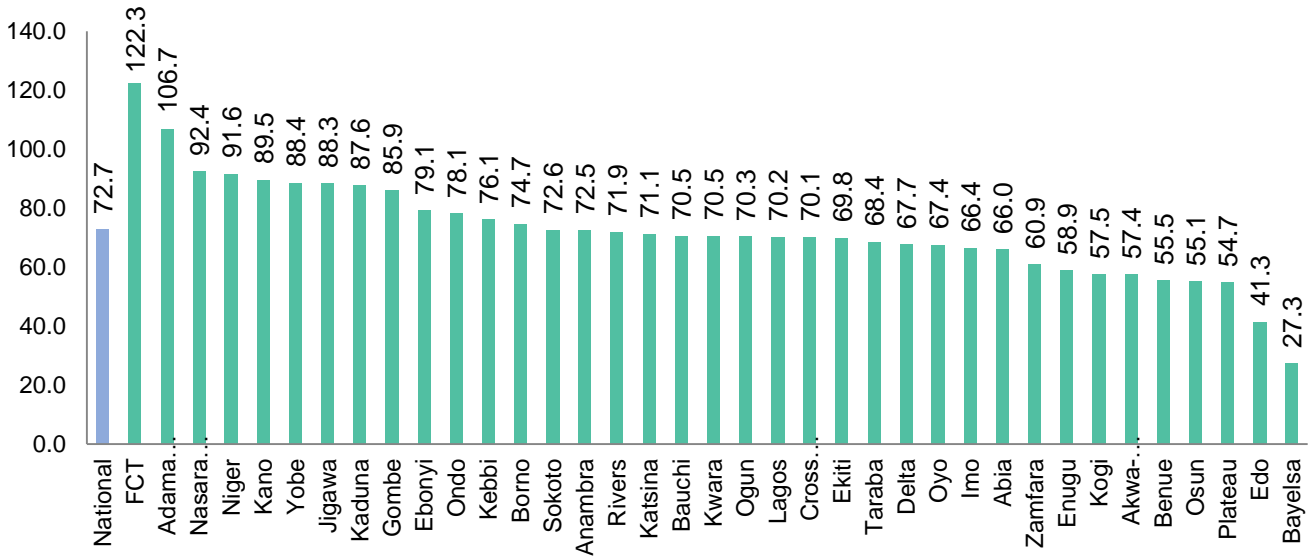


Figure 14: Penta 3 coverage (annualised) distributed by state

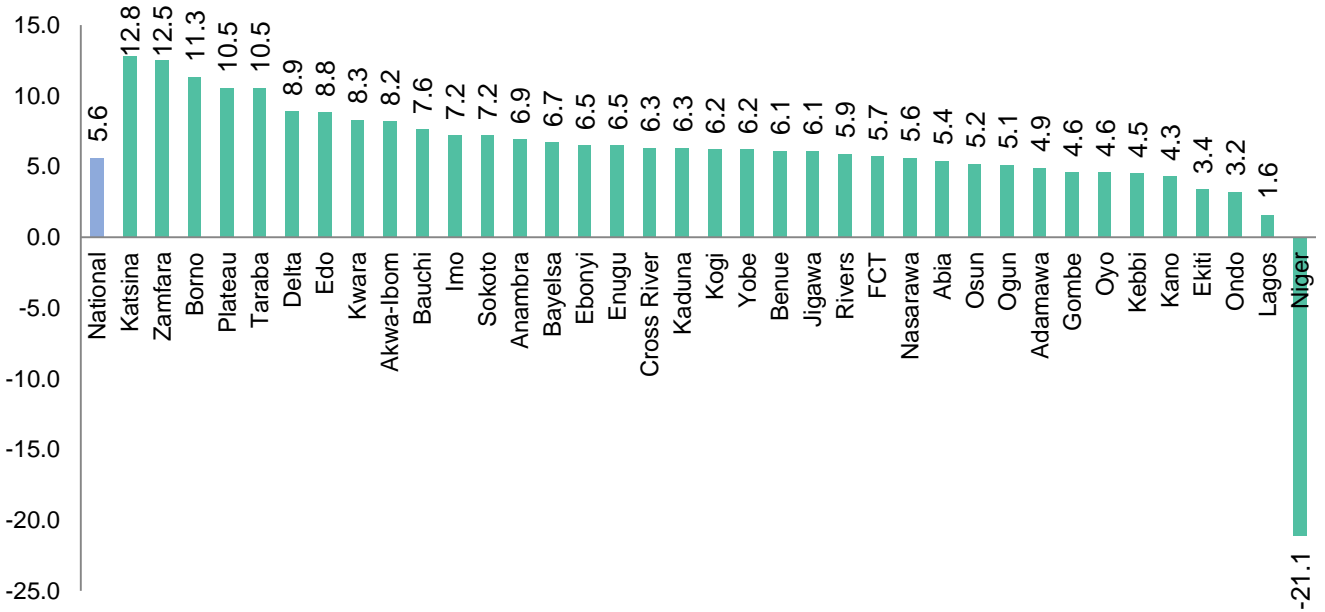


Figure 15: Penta 3 dropout rate (annualised) distributed by state

Measles Immunisation

The Measles immunisation coverage rate in 2021 was 67.1% (Figure 16). The FCT reported an invalid value (108.6%), while Bayelsa state reported the lowest coverage rate at 26%.



Figure 16: Measles coverage rate distributed by state

Inactivated Polio Vaccine (IPV) Coverage Rate

The IPV coverage in the country has dropped since 2020, as a rate of 71% was recorded this year.

Similar to the previous year, Bayelsa state reported the lowest IPV coverage rate (28.8%) (Figure 17). These figures indicate that about 71.2% of eligible children in Bayelsa state were not vaccinated. Interventions are needed to improve coverage rates within Bayelsa as well as other states that recorded low coverage rates.

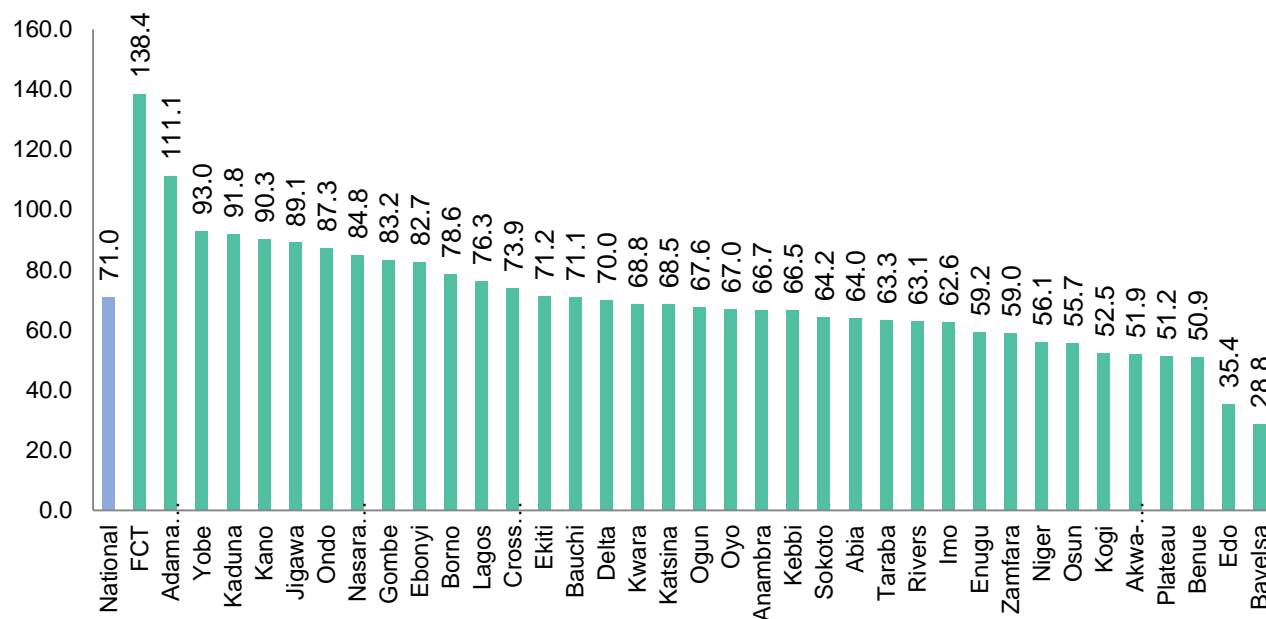


Figure 17: IPV coverage rate distributed by state

Under-Five Nutrition

In 2021, the underweight rate of children under 5 was reported as 20.4 per 1,000 children seen in health facilities in Nigeria (Figure 18). The rate includes both moderate and severe underweight cases recorded in health facilities across the nation.



The regional analysis by geopolitical zones in Figure 19 shows that the highest underweight rates were recorded in the North-West (43.1 per 1,000). The high rates reported in this region indicate a need for immediate interventions.

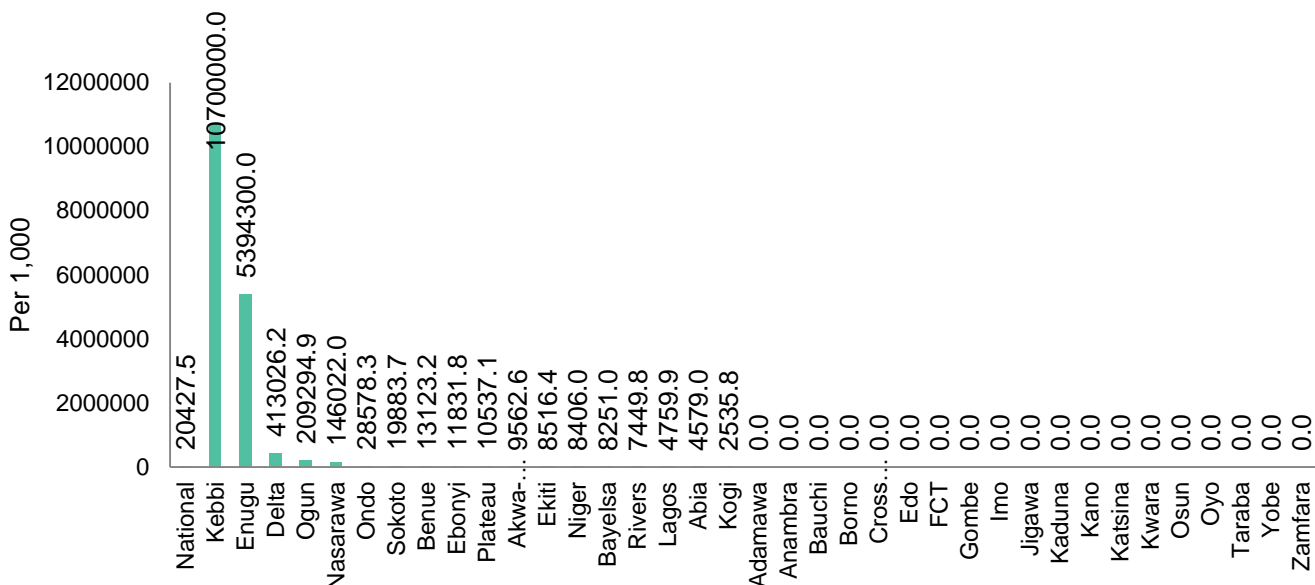


Figure 18: Underweight rate among under 5 children distributed by states



Figure 19: Underweight rate among under 5 children distributed by geopolitical zones.

Under-Five Mortality

As shown in Figure 21, the facility mortality rate for children under five was 17.1 deaths per 1,000 in 2021, which represents a decrease compared to the value reported in 2020 (18.5 per 1,000 children). Figure 20 shows that the month of August reported the highest under 5 mortality



rate (21.9 deaths per 1,000) while December reported the lowest (13.7 deaths per 1,000).

Nationwide, the facility-based under 5 deaths was 17.1 deaths per 1,000. Zamfara state reported the highest value (61.9 deaths per 1,000) for this indicator, while Ondo state reported the lowest (5.2 deaths per 1,000).

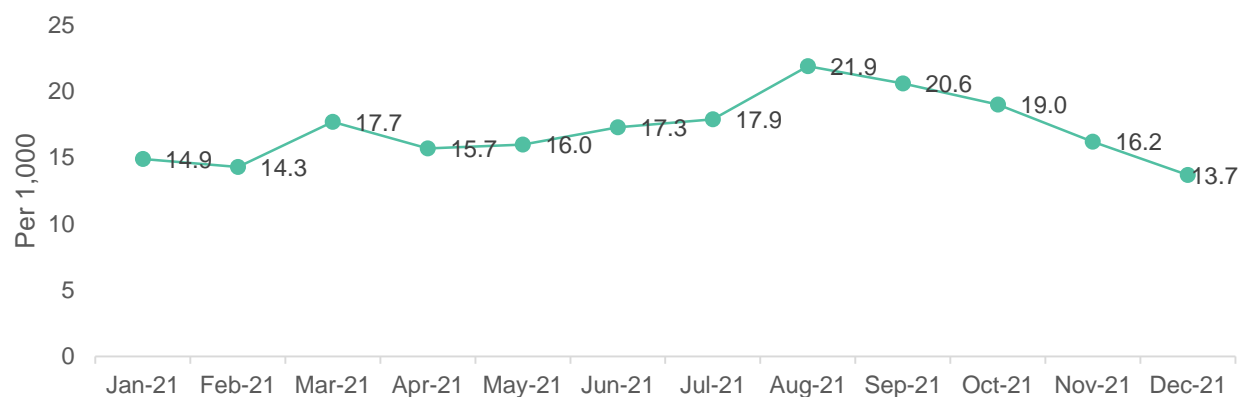


Figure 20: Under 5 mortality (per 1,000) rates

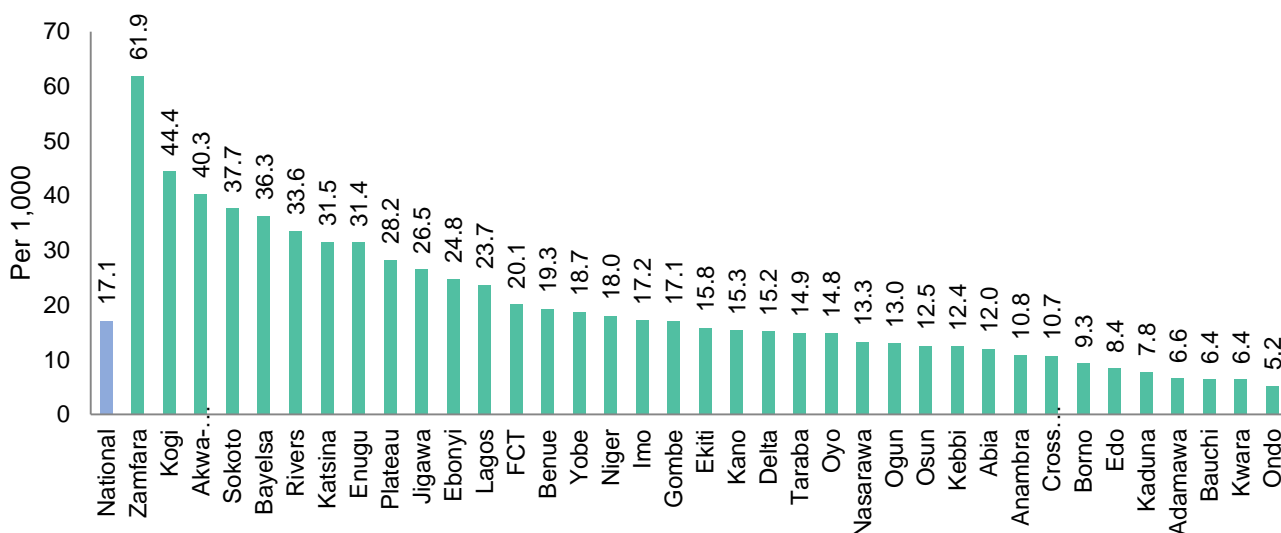


Figure 21: Facility-based under 5 deaths (per 1,000) distributed by states.

Malaria

Diagnosis

Malaria diagnosis based on clinical features alone results in the misuse of drugs and the emergence of drug-resistant strains. In order to avoid



this, the WHO recommends the use of microscopy or malaria Rapid Diagnostic Tests (RDTs) to confirm all suspected malaria cases before administering treatment. Figure 22 shows the trend of malaria cases confirmed with laboratory diagnosis throughout the year 2021.

The percentage of malaria cases confirmed with laboratory diagnosis nationwide was 91.3%. Zamfara state, reported having the highest percentage of malaria laboratory confirmed cases (105.1%) in all of 2021, while Enugu reported the lowest (29.1%) (Figure 23).

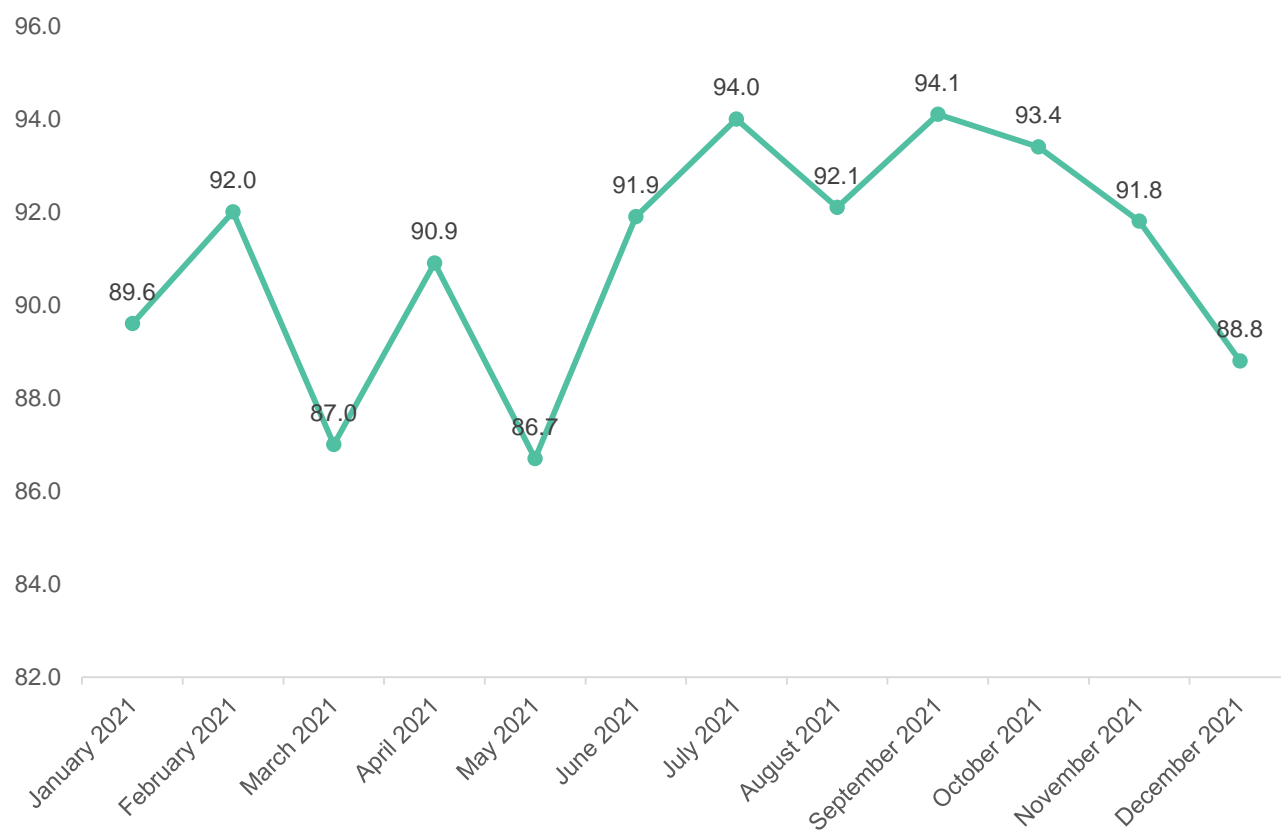


Figure 22: Malaria cases confirmed with laboratory diagnostics



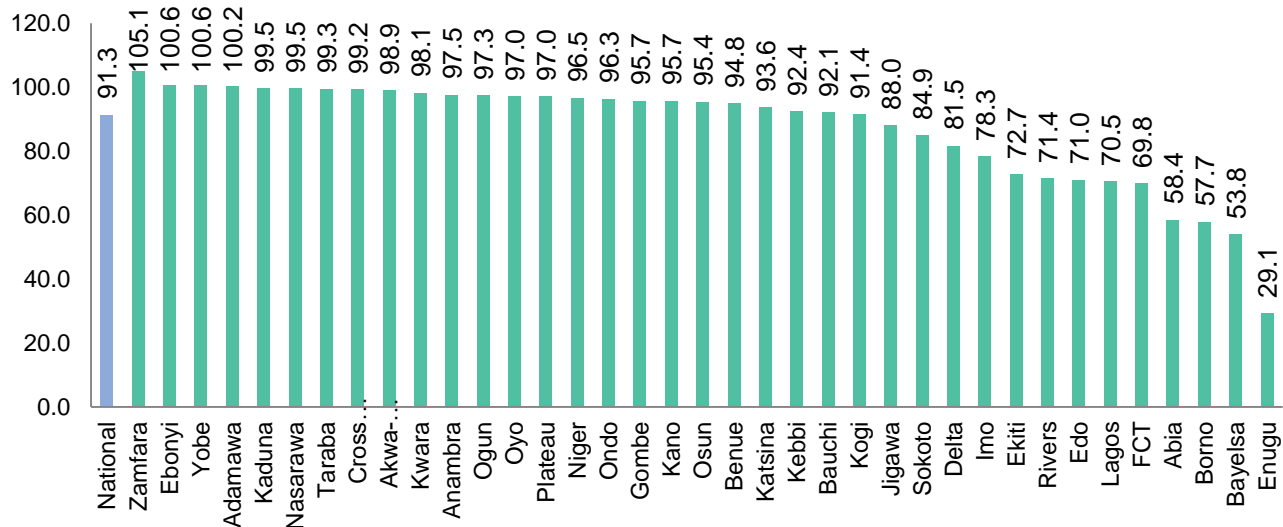


Figure 23: Malaria cases confirmed with laboratory diagnostics by states.

Confirmed Malaria Cases

In 2021, 76.5% of suspected cases were confirmed to be uncomplicated malaria using laboratory diagnostics - (microscopy and RDTs) (Figure 24). Of all states in 2021, Ekiti state reported the highest rate of confirmed uncomplicated malaria (107.0%) while the lowest rate was reported by Ebonyi state (60.9%).

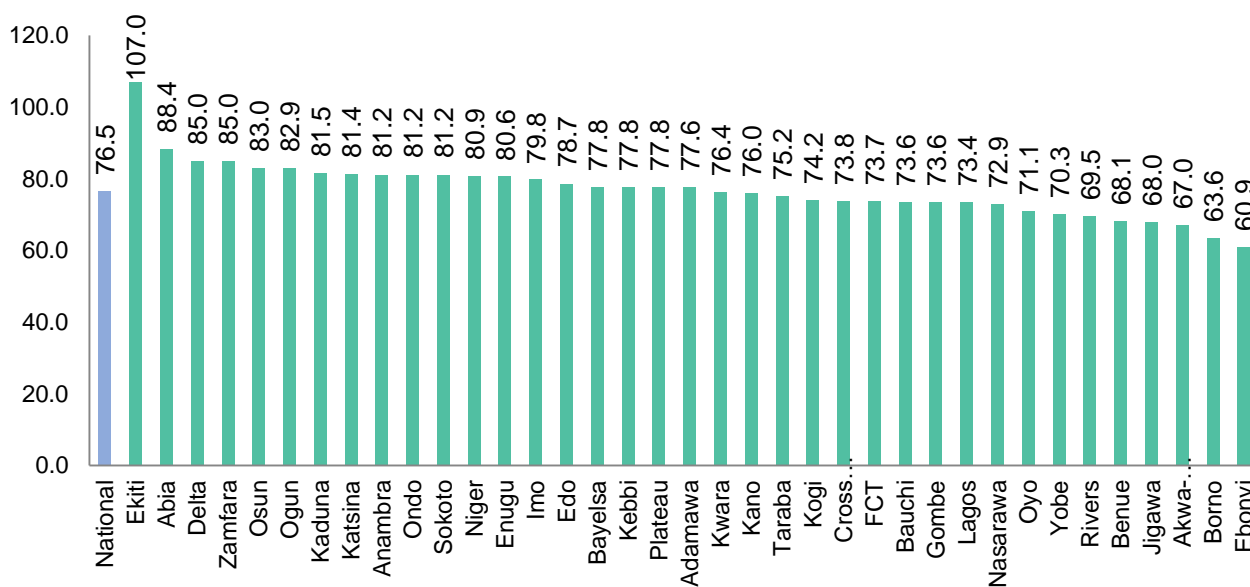


Figure 24: Confirmed Uncomplicated Malaria Cases

Appendix A: Indicators and Their Data Values

Period	NHMIS Monthly Summary Reporting rate	Antenatal 1st visits before 20 weeks rate	ANC Anaemia Rate	% of Antenatal 1st Visits receiving IPT1	% of Antenatal 1st Visits receiving LLIN	% Malaria confirmed pregnant women	BCG Coverage (Annualised)	% Confirmed uncomplicated Malaria	Antenatal revisits rec IPT2	IPV Coverage (Annualised)	Percentage of malaria cases confirmed with laboratory diagnostics
Jan 2021	56.3	34.3	8.3	435.2	29.9		71.1	72.8	133.7	70.4	89.6
Feb 2021	77.8	33.6	11.7	11976.8	30.7		74.4	72.8	4305.1	67.3	92.0
Mar 2021	79.5	32.7	2.8	21785.7	30.7		71.8	72.4	16828.1	64.4	87.0
Apr 2021	80.1	34.5	3.8	53531.0	31.5		76.4	73.3	37559.5	65.4	90.9
May 2021	80.7	34.1	2.9	137296.0	26.8		72.9	72.2	110420.4	62.0	86.7
Jun 2021	81.4	34.6	2.9	78188.9	24.6		81.7	74.8	89115.5	72.6	91.9
Jul 2021	81.6	34.6		816721.9	18.9		70.5	82.6	1354300.0	67.7	94.0
Aug 2021	81.4	33.7		808747.5	22.2		74.8	79.4	902565.2	87.1	92.1
Sep 2021	82.3	33.3		1221054.0	16.1		72.6	80.0	908454.2	83.4	94.1
Oct 2021	83.7	34.8		1049793.0	18.1		73.0	78.7	4227780.0	68.9	93.4
Nov 2021	82.0	34.9		1265862.0	14.0		77.0	76.5	4425140.0	71.5	91.8
Dec 2021	82.5	34.5		2361285.0	14.9		75.1	76.1	1879817.0	71.8	88.8
Period	Maternal mortality ratio (Facility)	Measles Dose Coverage (Annualised)	Outpatient Attendance	Penta Dropout Rate	Penta 3 Coverage (Annualised)	Skilled attendance at delivery or birth	% of Under 5 deaths attributable to Malaria	% of Under 5 deaths attributable to Pneumonia	% of Under 5 deaths attributable to Diarrhoea	Under 5 mortality rate (Facility)	Underweight Rate (<5 years) - Facility
Jan 2021	527.6	66.7	3754792	-3.7	81.1		62.5	0	0	14.9	10822.4

Feb 2021	695.1	67.9	3487364	4.7	76.2		54.6	0	0	14.3	254637.5
Mar 2021	835.1	63.6	3738343	5.2	71.3		45.0	0	0	17.7	716547.6
Apr 2021	725.3	63.8	3670471	6.7	71.3		41.3	0	0	15.7	2637518.0
May 2021	728.5	60.6	3682943	8.4	67.2		35.1	0	0	16.0	2943853.0
Jun 2021	576.5	71.5	4755752	9.7	77.9		36.2	0	0	17.3	5560770.0
Jul 2021	685.9	64.2	4549463	7.5	69.9		46.6	0	0	17.9	19053205.8
Aug 2021	692.7	68.3	5403433	5.0	76.3		54.2	0	0	21.9	8090183.0
Sep 2021	870.0	72.6	5169951	4.0	70.5		51.7	0	0	20.6	18455059.0
Oct 2021	725.4	61.8	5226077	5.0	68.7		52.9	0	0	19.0	122676517.1
Nov 2021	711.6	77.4	4704279	7.8	70.6		46.8	0	0	16.2	113918371.8
Dec 2021	765.7	66.8	4023514	7.3	71.4		51.9	0	0	13.7	68673727.5

Organisation unit	NHMIS Monthly Summary Reporting rate	Antenatal 1st visits before 20 weeks rate	ANC Anaemia Rate	% of Antenatal 1st Visits receiving IPT1	% of Antenatal 1st Visits receiving LLIN	% Malaria confirmed pregnant women	BCG Coverage (Annualised)	% Confirmed uncomplicated Malaria	Antenatal revisits rec IPT2	IPV Coverage (Annualised)	Percentage of malaria cases confirmed with laboratory diagnostics
Abia	86.5	38.3	4.9	865.4	2.2	0.0	64.9	88.4	550.1	64.0	58.8
Adamawa	89.5	40.8	0.0	437.1	32.2	0.0	101.5	77.6	0.0	111.1	100
Akwa-Ibom	77.5	27.7	4.5	763.6	3.8	0.0	64.9	67.0	380.1	51.9	91.5
Anambra	79.3	37.6	0.0	520.6	7.4	0.0	90.8	81.2	0.0	66.7	97.9

Bauchi	88.2	37.7	0.0	0.0	3.0	0.0	67.4	73.6	0.0	71.1	86.3
Bayelsa	77.0	33.1	1.6	912.1	27.1	0.0	24.3	77.8	297.2	28.8	58.6
Benue	60.5	42.6	4.3	388.4	6.9	0.0	73.4	68.1	553.8	50.9	87.3
Borno	52.0	38.8	0.0	0.0	25.4	0.0	71.7	63.6	0.0	78.6	67
Cross River	86.3	36.1	0.0	0.0	7.6	0.0	84.7	73.8	0.0	73.9	89.9
Delta	69.3	33.6	0.0	105087.5	41.0	0.0	75.6	85.0	159610.0	70.0	85.2
Ebonyi	85.2	31.6	3.1	785.1	11.7	0.0	87.1	60.9	499.8	82.7	99.2
Edo	85.1	29.4	0.0	0.0	11.6	0.0	47.7	78.7	0.0	35.4	78.2
Ekiti	73.0	25.8	2.1	519.3	6.7	0.0	75.3	107.0	133.9	71.2	67.1
Enugu	71.2	41.5	4.3	216283.3	6.7	0.0	53.6	80.6	6945.9	59.2	45.3
FCT	73.0	36.1	0.0	0.0	20.9	0.0	122.3	73.7	0.0	138.4	58.8
Gombe	91.3	36.0	0.0	0.0	24.3	0.0	80.5	73.6	0.0	83.2	93.1
Imo	65.9	37.6	0.0	0.0	10.7	0.0	72.5	79.8	0.0	62.6	75.9
Jigawa	95.7	25.5	0.0	0.0	43.3	0.0	82.7	68.0	0.0	89.1	78.9
Kaduna	80.2	31.8	0.0	0.0	26.3	0.0	85.8	81.5	0.0	91.8	98.8
Kano	93.6	25.5	0.0	0.0	26.5	0.0	91.5	76.0	0.0	90.3	101.1
Katsina	96.7	29.5	0.0	0.0	41.8	0.0	75.8	81.4	0.0	68.5	86.4
Kebbi	100.0	33.9	0.0	0.0	3.2	0.0	72.5	77.8	7150.3	66.5	88.5
Kogi	41.4	36.7	4.2	4424.3	6.5	0.0	45.2	74.2	722.2	52.5	88.2
Kwara	89.9	39.4	0.0	0.0	34.3	0.0	71.5	76.4	0.0	68.8	97.6
Lagos	75.8	43.6	8.6	728.3	11.8	0.0	66.2	73.4	100.0	76.3	68.8
Nasarawa	85.0	41.3	0.0	558.8	13.8	0.0	88.9	72.9	11656.4	84.8	102.8
Niger	79.1	41.6	0.0	0.0	28.6	0.0	78.4	80.9	110792.5	56.1	100.5
Ogun	63.8	36.2	6.8	4182.0	50.3	0.0	96.2	82.9	141.3	67.6	98.2

Ondo	99.8	36.3	2.4	323325.7	34.2	0.0	77.2	81.2	1827.1	87.3	95.5
Osun	84.8	34.8	0.0	0.0	50.1	0.0	51.4	83.0	0.0	55.7	98.3
Oyo	95.6	29.8	0.0	0.0	5.2	0.0	77.2	71.1	0.0	67.0	75.6
Plateau	71.2	27.7	7.7	481.6	4.0	0.0	58.7	77.8	1055.1	51.2	70.4
Rivers	71.8	42.6	6.0	5297.8	7.5	0.0	69.6	69.5	196.3	63.1	67.8
Sokoto	83.9	38.2	26.6	1730.7	3.0	0.0	69.5	81.2	340.8	64.2	62
Taraba	64.1	41.9	0.0	0.0	24.7	0.0	69.6	75.2	0.0	63.3	93
Yobe	89.6	39.0	0.0	0.0	39.8	0.0	79.1	70.3	0.0	93.0	96
Zamfara	87.3	36.7	3.1	758.7	4.7	0.0	63.0	85.0	280.4	59.0	88.6
National	79.9	34.1	8.3	13848.7	22.8	0.0	74.3	76.5	1669.9	71.0	87.3

Organisation unit	Maternal mortality ratio (Facility)	Measles Dose Coverage (Annualised)	Outpatient Attendance	Penta Dropout Rate	Penta 3 Coverage (Annualised)	Skilled attendance at delivery or birth	% of Under 5 deaths attributable to Malaria	% of Under 5 deaths attributable to Pneumonia	% of Under 5 deaths attributable to Diarrhoea	Under 5 mortality rate (Facility)	Underweight Rate (<5 years) - Facility
Abia	1203.4	61.9	199615.0	5.4	66.0	58.1	10	0	0	12.0	4579.0
Adamawa	400.6	93.0	1123550.0	4.9	106.7	94.9	61	0	0	6.6	0.0
Akwa-Ibom	1018.8	55.9	650458.0	8.2	57.4	55.2	10	0	0	40.3	9562.6
Anambra	209.4	78.5	507697.0	6.9	72.5	55.5	26	0	0	10.8	0.0
Bauchi	382.4	57.4	2122833.0	7.6	70.5	86.6	65	0	0	6.4	0.0
Bayelsa	4662.7	26.0	111304.0	6.7	27.3	58.1	44	0	0	36.3	8251.0
Benue	3702.1	61.6	563682.0	6.1	55.5	49.3	62	0	0	19.3	13123.2
Borno	608.5	59.5	2193299.0	11.3	74.7	81.2	51	0	0	9.3	0.0
Cross River	331.3	76.8	561265.0	6.3	70.1	62.3	32	0	0	10.7	0.0
Delta	554.6	69.7	1416669.0	8.9	67.7	67.9	25	0	0	15.2	413026.2
Ebonyi	806.7	70.5	716356.0	6.5	79.1	84.5	22	0	0	24.8	11831.8

Edo	438.2	42.0	245532.0	8.8	41.3	45.7	33	0	0	8.4	0.0
Ekiti	319.6	71.8	144093.0	3.4	69.8	37.6	39	0	0	15.8	8516.4
Enugu	1095.3	50.1	277935.0	6.5	58.9	58.0	21	0	0	31.4	5394300.0
FCT	341.3	108.6	1542059.0	5.7	122.3	61.5	28	0	0	20.1	0.0
Gombe	1135.4	70.8	1248824.0	4.6	85.9	90.5	54	0	0	17.1	0.0
Imo	1675.7	66.5	274271.0	7.2	66.4	73.5	11	0	0	17.2	0.0
Jigawa	1126.8	78.3	4497438.0	6.1	88.3	81.7	47	0	0	26.5	0.0
Kaduna	402.0	96.0	3393843.0	6.3	87.6	90.5	39	0	0	7.8	0.0
Kano	436.7	72.8	4870256.0	4.3	89.5	96.0	40	0	0	15.3	0.0
Katsina	946.6	61.8	4203894.0	12.8	71.1	63.6	55	0	0	31.5	0.0
Kebbi	770.7	73.5	1509343.0	4.5	76.1	82.4	59	0	0	12.4	10700000.0
Kogi	281.8	53.6	138881.0	6.2	57.5	63.5	79	0	0	44.4	2535.8
Kwara	270.8	66.7	630466.0	8.3	70.5	45.4	52	0	0	6.4	0.0
Lagos	930.8	58.7	4619612.0	1.6	70.2	90.9	10	0	0	23.7	4759.9
Nasarawa	654.3	80.4	1078542.0	5.6	92.4	84.6	34	0	0	13.3	146022.0
Niger	694.7	76.2	2142170.0	-21.1	91.6	50.9	38	0	0	18.0	8406.0
Ogun	322.0	81.4	896445.0	5.1	70.3	46.4	12	0	0	13.0	209294.9
Ondo	462.8	73.2	393536.0	3.2	78.1	77.1	35	0	0	5.2	28578.3
Osun	68.7	50.6	863703.0	5.2	55.1	17.4	50	0	0	12.5	0.0
Oyo	222.1	68.1	1741140.0	4.6	67.4	74.4	30	0	0	14.8	0.0
Plateau	1205.8	47.6	883370.0	10.5	54.7	49.7	38	0	0	28.2	10537.1
Rivers	448.2	64.3	538141.0	5.9	71.9	77.4	12	0	0	33.6	7449.8
Sokoto	694.3	55.9	1905602.0	7.2	72.6	79.5	77	0	0	37.7	19883.7
Taraba	527.5	60.7	615440.0	10.5	68.4	63.6	59	0	0	14.9	0.0
Yobe	1216.6	81.3	1446762.0	6.2	88.4	86.3	55	0	0	18.7	0.0
Zamfara	1674.3	58.7	1898356.0	12.5	60.9	59.5	54	0	0	61.9	0.0
National	712.0	67.1	52166382.0	5.6	72.7	76.9	49	0	0	17.1	20427.5

Appendix B: Expected and Actual Monthly NHMIS Reports Received From States

States	JANUARY 2021			FEBRUARY 2021			MARCH 2021			APRIL 2021		
	Actual Reports	Expected Reports	Percent	Actual Reports	Expected Reports	Percent	Actual Reports	Expected Reports	Percent	Actual Reports	Expected Reports	Percent
Abia	41	1185	3.5	1084	1185	91.5	1115	1185	94.1	1124	1186	94.8
Adamawa	736	964	76.3	763	959	79.6	762	958	79.5	772	956	80.8
Akwa-Ibom	10	686	1.5	502	686	73.2	526	686	76.7	533	686	77.7
Anambra	851	1160	73.4	801	1161	69.0	838	1162	72.1	913	1161	78.6
Bauchi	985	1249	78.9	1033	1249	82.7	1062	1249	85.0	1075	1249	86.1
Bayelsa	20	332	6.0	166	332	50.0	226	332	68.1	282	332	84.9
Benue	36	1368	2.6	586	1368	42.8	798	1368	58.3	851	1368	62.2
Borno	381	705	54.0	356	705	50.5	353	705	50.1	418	705	59.3
Cross River	1110	1349	82.3	1140	1349	84.5	1110	1319	84.2	1114	1319	84.5
Delta	591	867	68.2	600	867	69.2	591	867	68.2	598	867	69.0
Ebonyi	11	838	1.3	647	838	77.2	634	844	75.1	642	844	76.1
Edo	803	851	94.4	780	851	91.7	679	851	79.8	706	851	83.0
Ekiti	35	617	5.7	493	617	79.9	489	617	79.3	511	617	82.8
Enugu	726	1041	69.7	735	1041	70.6	738	1041	70.9	737	1041	70.8
FCT	326	553	59.0	380	553	68.7	374	553	67.6	383	553	69.3
Gombe	626	676	92.6	622	676	92.0	629	676	93.0	626	676	92.6
Imo	666	1279	52.1	628	1279	49.1	597	1130	52.8	608	1130	53.8
Jigawa	726	768	94.5	724	768	94.3	725	768	94.4	724	768	94.3
Kaduna	1166	1499	77.8	1176	1499	78.5	1192	1499	79.5	1217	1499	81.2
Kano	1344	1500	89.6	1341	1500	89.4	1355	1500	90.3	1352	1500	90.1
Katsina	1860	1899	97.9	1867	1899	98.3	1856	1899	97.7	1836	1899	96.7
Kebbi	915	940	97.3	939	941	99.8	930	941	98.8	909	941	96.6
Kogi	36	1240	2.9	317	1240	25.6	356	1240	28.7	304	1240	24.5
Kwara	609	693	87.9	622	693	89.8	623	693	89.9	639	693	92.2

Lagos	162	2355	6.9	1852	2355	78.6	1961	2355	83.3	1957	2355	83.1
Nasarawa	798	948	84.2	784	948	82.7	807	948	85.1	894	948	94.3
Niger	1627	1902	85.5	1594	1902	83.8	1587	1902	83.4	1587	1902	83.4
Ogun	39	1268	3.1	837	1268	66.0	851	1268	67.1	864	1268	68.1
Ondo	842	833	100.0	844	833	100.0	829	833	99.5	831	833	99.8
Osun	955	1132	84.4	948	1130	83.9	937	1130	82.9	939	1130	83.1
Oyo	1424	1511	94.2	1399	1507	92.8	1395	1451	96.1	1352	1451	93.2
Plateau	607	1524	39.8	1261	1524	82.7	1388	1524	91.1	1129	1524	74.1
Rivers	49	679	7.2	549	679	80.9	521	679	76.7	509	679	75.0
Sokoto	20	860	2.3	665	859	77.4	625	859	72.8	741	858	86.4
Taraba	709	1139	62.2	688	1139	60.4	702	1139	61.6	726	1139	63.7
Yobe	502	539	93.1	496	539	92.0	480	539	89.1	479	539	88.9
Zamfara	19	793	2.4	696	793	87.8	747	793	94.2	776	793	97.9
National	22363	39742	56.3	30915	39732	77.8	31388	39503	79.5	31658	39500	80.1

States	MAY 2021			JUNE 2021			JULY 2021			AUGUST 2021		
	Actual Reports	Expected Reports	Percent	Actual Reports	Expected Reports	Percent	Actual Reports	Expected Reports	Percent	Actual Reports	Expected Reports	Percent
Abia	1107	1186	93.3	1112	1186	93.8	1129	1186	95.2	1126	1186	94.9
Adamawa	762	931	81.8	800	888	90.1	764	871	87.7	797	871	91.5
Akwa-Ibom	536	686	78.1	553	686	80.6	605	686	88.2	626	686	91.3
Anambra	854	1129	75.6	901	1116	80.7	871	1101	79.1	895	1101	81.3
Bauchi	1031	1249	82.5	1037	1249	83.0	1064	1249	85.2	1073	1249	85.9
Bayelsa	292	332	88.0	309	326	94.8	308	326	94.5	296	326	90.8
Benue	992	1368	72.5	961	1362	70.6	920	1360	67.6	898	1360	66.0
Borno	418	705	59.3	392	705	55.6	369	705	52.3	341	705	48.4

Cross River	1129	1319	85.6	1137	1319	86.2	1144	1319	86.7	1152	1319	87.3
Delta	595	867	68.6	604	867	69.7	596	867	68.7	584	867	67.4
Ebonyi	648	844	76.8	652	844	77.3	652	844	77.3	663	841	78.8
Edo	720	851	84.6	758	851	89.1	734	851	86.3	715	851	84.0
Ekiti	523	617	84.8	487	617	78.9	487	617	78.9	488	617	79.1
Enugu	765	1041	73.5	789	1041	75.8	780	1041	74.9	707	1041	67.9
FCT	386	553	69.8	381	553	68.9	385	553	69.6	396	553	71.6
Gombe	627	676	92.8	627	676	92.8	620	676	91.7	572	676	84.6
Imo	642	1130	56.8	736	1130	65.1	803	1130	71.1	799	1130	70.7
Jigawa	725	768	94.4	727	768	94.7	728	768	94.8	742	768	96.6
Kaduna	1226	1499	81.8	1231	1499	82.1	1225	1499	81.7	1230	1499	82.1
Kano	1335	1498	89.1	1343	1480	90.7	1345	1444	93.1	1341	1446	92.7
Katsina	1839	1899	96.8	1877	1899	98.8	1864	1899	98.2	1739	1899	91.6
Kebbi	908	941	96.5	925	942	98.2	922	942	97.9	941	942	99.9
Kogi	333	1240	26.9	457	1212	37.7	576	1211	47.6	695	1211	57.4
Kwara	640	693	92.4	625	693	90.2	629	693	90.8	614	693	88.6
Lagos	1914	2355	81.3	1924	2355	81.7	1881	2355	79.9	1947	2352	82.8
Nasarawa	905	948	95.5	788	948	83.1	814	948	85.9	798	948	84.2
Niger	1477	1902	77.7	1432	1901	75.3	1394	1901	73.3	1349	1901	71.0
Ogun	883	1268	69.6	910	1268	71.8	910	1268	71.8	875	1268	69.0
Ondo	830	833	99.6	829	833	99.5	830	833	99.6	830	833	99.6
Osun	965	1130	85.4	977	1130	86.5	959	1130	84.9	962	1130	85.1
Oyo	1375	1450	94.8	1380	1450	95.2	1366	1450	94.2	1385	1450	95.5
Plateau	1145	1524	75.1	1060	1524	69.6	1087	1524	71.3	1103	1524	72.4
Rivers	521	679	76.7	524	679	77.2	504	679	74.2	539	679	79.4
Sokoto	789	858	92.0	777	858	90.6	774	858	90.2	773	858	90.1
Taraba	767	1139	67.3	743	1139	65.2	751	1139	65.9	726	1139	63.7
Yobe	474	539	87.9	472	539	87.6	466	539	86.5	471	539	87.4
Zamfara	757	793	95.5	761	793	96.0	769	793	97.0	745	793	93.9

National	31835	39440	80.7	31998	39326	81.4	32025	39255	81.6	31933	39251	81.4
----------	-------	-------	------	-------	-------	------	-------	-------	------	-------	-------	------

States	SEPTEMBER 2021			OCTOBER 2021			NOVEMBER 2021			DECEMBER 2021		
	Actual Reports	Expected Reports	Percent	Actual Reports	Expected Reports	Percent	Actual Reports	Expected Reports	Percent	Actual Reports	Expected Reports	Percent
Abia	1100	1186	92.7	1140	1186	96.1	1113	1186	93.8	1112	1186	93.8
Adamawa	790	866	91.2	783	866	90.4	788	866	91.0	788	866	91.0
Akwa-Ibom	641	686	93.4	631	686	92.0	607	686	88.5	613	686	89.4
Anambra	868	1101	78.8	881	1101	80.0	856	1101	77.7	885	1101	80.4
Bauchi	1071	1245	86.0	1077	1212	88.9	1062	1213	87.6	1063	1194	89.0
Bayelsa	285	326	87.4	287	326	88.0	272	326	83.4	269	326	82.5
Benue	979	1360	72.0	1030	1360	75.7	902	1360	66.3	920	1360	67.6
Borno	335	705	47.5	351	705	49.8	344	705	48.8	342	705	48.5
Cross River	1164	1319	88.2	1130	1319	85.7	1161	1319	88.0	1166	1319	88.4
Delta	604	867	69.7	614	867	70.8	609	867	70.2	620	867	71.5
Ebonyi	669	813	82.3	670	741	90.4	671	719	93.3	681	719	94.7
Edo	659	851	77.4	721	851	84.7	696	851	81.8	717	851	84.3
Ekiti	510	617	82.7	472	617	76.5	466	617	75.5	447	617	72.4
Enugu	742	1041	71.3	721	1041	69.3	711	1041	68.3	749	1041	72.0
FCT	391	553	70.7	396	551	71.9	400	547	73.1	391	524	74.6
Gombe	599	676	88.6	612	676	90.5	614	675	91.0	622	675	92.1
Imo	945	1130	83.6	894	1130	79.1	805	1130	71.2	812	1130	71.9
Jigawa	749	768	97.5	751	768	97.8	749	768	97.5	753	768	98.0

Kaduna	1198	1499	79.9	1205	1499	80.4	1143	1499	76.3	1214	1499	81.0
Kano	1345	1443	93.2	1335	1443	92.5	1338	1443	92.7	1338	1443	92.7
Katsina	1805	1899	95.1	1824	1899	96.1	1799	1899	94.7	1867	1899	98.3
Kebbi	955	942	100.0	960	941	100.0	949	941	100.0	955	939	100.0
Kogi	672	1211	55.5	774	1211	63.9	688	1211	56.8	802	1211	66.2
Kwara	623	693	89.9	627	693	90.5	597	693	86.1	625	693	90.2
Lagos	1901	2352	80.8	2036	2351	86.6	1950	2350	83.0	1895	2350	80.6
Nasarawa	781	948	82.4	781	948	82.4	766	948	80.8	759	948	80.1
Niger	1405	1901	73.9	1551	1901	81.6	1558	1901	82.0	1488	1901	78.3
Ogun	918	1268	72.4	917	1268	72.3	904	1268	71.3	798	1268	62.9
Ondo	824	833	98.9	826	833	99.2	829	833	99.5	831	833	99.8
Osun	978	1130	86.5	968	1130	85.7	946	1130	83.7	963	1130	85.2
Oyo	1392	1450	96.0	1379	1450	95.1	1399	1450	96.5	1388	1450	95.7
Plateau	1095	1524	71.9	1087	1524	71.3	1033	1524	67.8	1029	1524	67.5
Rivers	550	679	81.0	542	679	79.8	521	679	76.7	524	679	77.2
Sokoto	762	860	88.6	795	861	92.3	789	830	95.1	794	829	95.8
Taraba	743	1139	65.2	733	1139	64.4	747	1139	65.6	721	1139	63.3
Yobe	480	536	89.6	481	536	89.7	483	536	90.1	478	536	89.2
Zamfara	744	793	93.8	756	793	95.3	768	793	96.8	773	793	97.5
National	32272	39210	82.3	32738	39102	83.7	32033	39044	82.0	32192	38999	82.5