Issue: Volume 7 No. 49 22nd December, 2017

NIGERIA CENTRE FOR DISEASE CONTROL

Weekly Epidemiological Report

Main Highlight of the week

CRITICAL ROLE OF LABORATORIES DURING OUTBREAKS

Response to disease outbreaks in recent past has highlighted evidence of weakness in integration between disease surveillance and laboratories. In this week's editorial, we review the roles of the laboratory before and during an outbreak.

1. Before an outbreak: The laboratory carries out two specific roles

- Early warning signals: This involves detecting pathogens that have the potential to spread. This will ensure early control measures are put in place.
- Outbreak Detection: The laboratory is responsible for confirming diagnosis and providing guidance for a more specific case definition, detection of a new pathogen and providing additional information on the pathogen.

2. During an Outbreak
- Laboratory confirmation of early cases
- Identification of new pathogens
- Typing of the pathogen-this can help with linking clusters is situations when epidemiological data is insufficient
- Antimicrobial susceptibility testing to guide treatment of cases
- Environmental investigations -This is applicable for disease conditions that are food and vector borne e.g. Cholera, Yellow fever
- Detection of Carriers, if any
- Post-outbreak Surveillance

3. In-between outbreaks
- Monitoring Endemic Disease Trends-This is achieved through confirmation of diagnosis (for case definitions that include laboratory criteria), monitoring resistance patterns of isolates and subtypes of a pathogen
- Monitoring eradication/elimination measures - Usually requires more specific testing as positive predictive value decreases. Typing helps to identify the origin of a pathogen which will inform how eradication/elimination measures will be carried out.

It is very important that all States identify a public health laboratory – preferably in the State capital- to ensure laboratory confirmation of diseases especially during outbreaks. Laboratory confirmation provides a stronger response structure to any outbreak.

Irrespective of the stage of outbreak, it is important that good communication be established between the Epidemiologists and the laboratory. This also helps to increase on effective participation of the laboratory in surveillance

Reference

1. http://www.who.int/ihr/lyon/surveillance/lab_surveillance/en/

In the reporting week ending on December 10, 2017:

- There were 119 new cases of Acute Flaccid Paralysis (AFP) reported. None was confirmed as Polio. The last reported case of Polio in Nigeria was in August 2016. Active case search for AFP is being intensified as Nigeria has reinvigorated its efforts at eradicating Polio.

- 11 suspected cases of Cholera were reported from three LGAs in two States (Kaduna – 1 and Kano – 10). None was laboratory confirmed and no death was recorded.

- 18 suspected cases of Lassa fever were reported from six LGAs in four States (Bauchi – 1, Edo – 15, Ondo - 1 & Rivers - 1). One was laboratory confirmed and one death was recorded.

- There were 11 suspected cases of Cerebrospinal Meningitis (CSM) reported from nine LGAs in five States (Cross River – 1, Ebonyi – 1, Katsina - 6, Osun – 1 & Oyo – 2). Of these, none was laboratory confirmed and one death was recorded. Ongoing surveillance for CSM has been intensified in all the 26 States in the Nigeria meningitis belt and case based surveillance commenced from 4th December, 2017.

- There were 238 suspected cases of Measles reported from 31 States. None was laboratory confirmed and two deaths were recorded.

In the reporting week, all States sent in their report. This is a remarkable improvement! Timeliness of reporting increases from 85% in week 48 to 86% in the current week (Week 49) while completeness remains at 100%. It is very important for all States to ensure timely and complete reporting at all times, especially during an outbreak.

Summary Table 1 (IDSR Weekly Report as at 15/12/2017)

Disease	Variables	Week 48	Week 49		Cumulative Weeks	
		2017	2017	2016	01 - 49, 2017	01 - 49, 2016
AFP	Cases	128	119	257	13,925	13228
	Deaths	0	0	0	0	0
	CFR	0.00%	0.00%	0.00%	0.00%	0.00%
Polio	WPV Types 1 & 3	0	0	0	0	4
	WPV Types 1	0	0	0	0	4
	WPV Types 3	0	0	0	0	0
Cholera	Cases	8	11	3	3,714	727
	Deaths	0	0	0	84	32
	CFR	0.00%	0.00%	0.00%	2.26%	4.40%
Lassa Fever	Cases	16	18	3	714	886
	Deaths	1	1	0	69	110
	CFR	6.25%	5.56%	0.00%	9.66%	12.42%
CSM	Cases	16	11	9	9929	822
	Deaths	4	1	2	607	33
	CFR	25.00%	9.09%	22.22%	6.11%	4.01%
Measles	Cases	278	238	220	21,400	24835
	Deaths	0	2	1	114	102
	CFR	0.00%	0.84%	0.45%	0.53%	0.41%
Guinea Worm	Cases	0	0	0	0	0
	Deaths	0	0	0	0	0
	CFR	0.00%	0.00%	0.00%	0.00%	0.00%

1. LASSA FEVER

Please note that the data reflects the routine reports i.e. all suspected cases including the laboratory positive and negative cases

1.1. 18 suspected cases of Lassa fever with one Laboratory confirmed and one death (CFR, 5.56%) were reported from six LGAs (four States: Bauchi – 1, Edo – 15, Ondo - 1 & Rivers - 1) in week 49, 2017 compared with three suspected cases reported from two LGAs (Bauchi State) at the same period in 2016

1.2. Laboratory results of the 18 suspected cases; one positive for Lassa fever (Ondo – 1), 17 were negative for Lassa fever & other VHFs (Bauchi – 1, Edo – 15 & Rivers - 1)

1.3. Between weeks 1 and 49 (2017), 714 suspected Lassa fever cases with 139 laboratory confirmed cases and 69 deaths (CFR, 9.66%) from 94 LGAs (28 States) were reported compared with 886 suspected cases with 93 laboratory confirmed cases and 110 deaths (CFR, 12.42%) from 141 LGAs (29 States) during the same period in 2016 (Figure 1)

1.4. Between weeks 1 and 52 2016, 921 suspected Lassa fever cases with 109 laboratory confirmed cases and 119 deaths (CFR, 12.92%) from 144 LGAs (28 States and FCT) were reported compared with 430 suspected cases with 25 laboratory confirmed cases and 40 deaths (CFR, 9.30%) from 37 LGAs (14 States and FCT) during the same period in 2015 (Figure 2)

1.5. Investigation and active case search ongoing in affected States with coordination of response activities by the NCDC with support from partners

1.5.1. National Lassa Fever Working Group meeting and weekly National Surveillance and Outbreak Response meeting on-going at NCDC to keep abreast of the current Lassa fever situation in the country

1.5.2. Response materials for VHFs provided to support States

1.5.3. New VHF guidelines have been developed by the NCDC (National Viral Haemorrhagic Fevers Preparedness guidelines, Infection Prevention and Control of VHF and Standard Operating Procedures for Lassa fever management) and are available on the NCDC website- http://ncdc.gov.ng/diseases/guidelines

1.5.4. VHF case-based forms completed by affected States are being entered into the new VHF management system. This system allows for the creation of a VHF database for the country. Data from the VHF database is currently being analysed to inform decision making in the coming year

1.5.5. Confirmed cases are being treated at identified treatment/isolation centres across the States with Ribavirin and necessary supportive management also instituted

1.5.6. Onsite support was earlier provided to Ogun, Nasarawa, Taraba, Ondo and Borno States by the NCDC and partners

1.5.7. Offsite support provided by NCDC/partners in all affected States

1.5.8. States are enjoined to intensify surveillance and promote Infection, Prevention and Control (IPC) measures in health facilities

1.5.9. Ongoing visits to support priority States in developing preparedness and response plans ahead of dry season

Figure 1: Map of Nigeria showing areas affected by Lassa fever, week 1- 49, 2016 & 2017

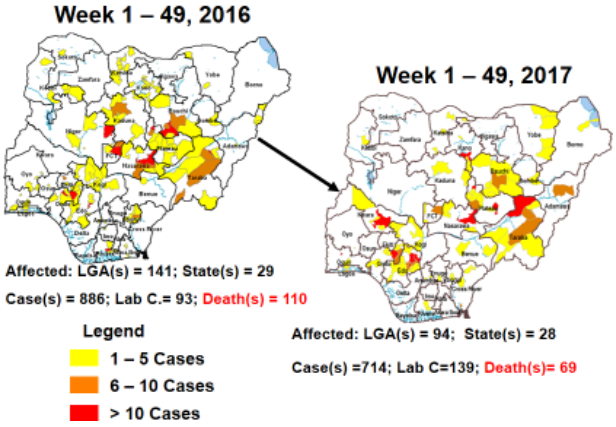
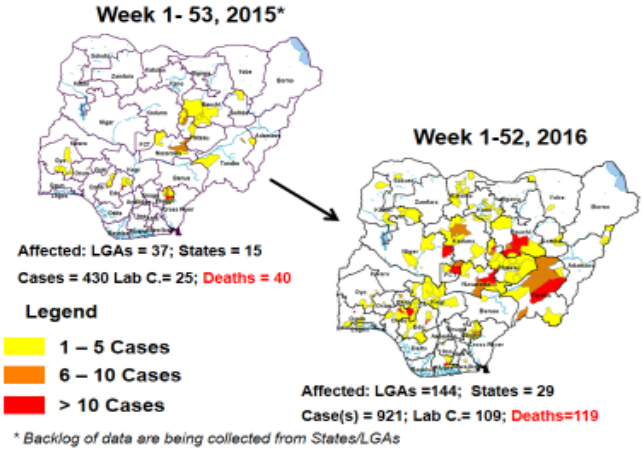


Figure 2: Map of Nigeria showing areas affected by Lassa fever, week 1 - 53, 2015 and week 1 – 52, 2016



2. MEASLES

2.1. In the reporting week, 238 suspected cases of Measles and two deaths (CFR, 0.84%) were reported from 31 States compared with 220 suspected cases with two Laboratory confirmed cases and one death (CFR, 0.41%) reported from 32 States during the same period in 2016

2.2. So far, 21,400 suspected Measles cases with 109 laboratory confirmed cases and 114 deaths (CFR, 0. 53%) have been reported in 2017 from 36 States and FCT (Figure 4) compared with 24,835 suspected cases and 102 deaths (CFR, 0.41%) from 36 States and FCT during the same period in 2016

2.3. In 2016 (week 1 -52), 25,251 suspected Measles cases with 102 deaths (CFR, 0.40%) were reported from 36 States and FCT compared with 24,421 suspected cases with 127 deaths (CFR, 0.52%) during the same period in 2015 (Figure 5)

2.4. Response measures include immunization for all vaccine-preventable diseases in some selected/affected wards/LGAs during SIAs, as well as case management

2.5. Scheduled Measles campaigns in the North East were conducted from 12th – 17th January, 2017 in Adamawa, Borno and Yobe States (Phase I) and Phase II from 21st – 25th January, 2017 in Borno State and 4th – 8th February, 2017 in Yobe State

2.6. Measles Surveillance Evaluation and Establishment of the burden of Congenital Rubella Syndrome (CRS) in 12 selected States in the six geopolitical zones from the 17th -21st July 2017 conducted

2.7. Measles mass campaign conducted in seven North West and North East States from 9th – 14th November, 2017 and 30th November – 5th December, 2017 respectively.

Figure 3: Suspected Measles attack rate by States, week 49, 2017 as at 15tH December, 2017

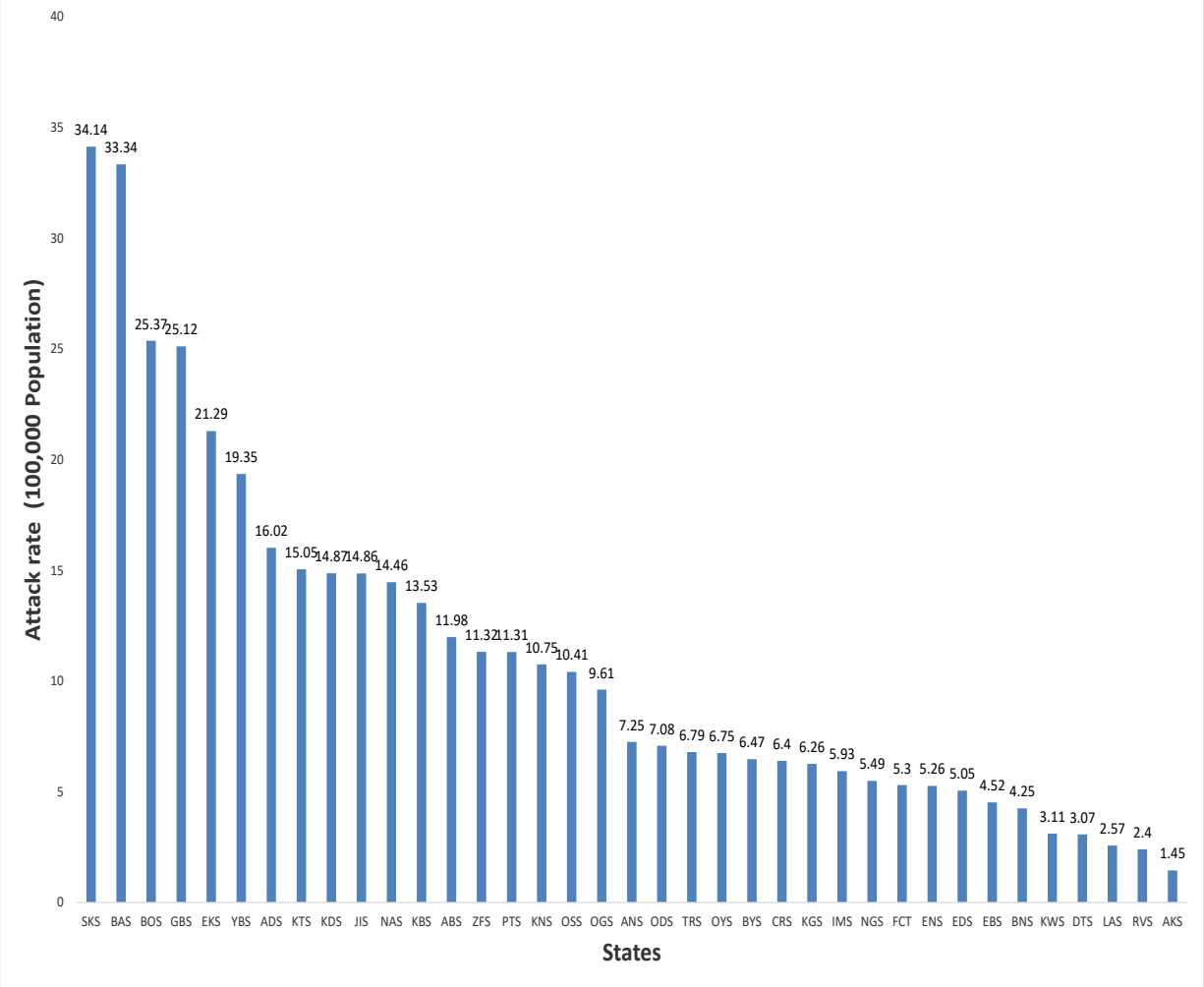


Figure 4: Map of Nigeria showing Distribution of suspected Measles cases, Weeks 1- 49, 2017as at 15/12/2017

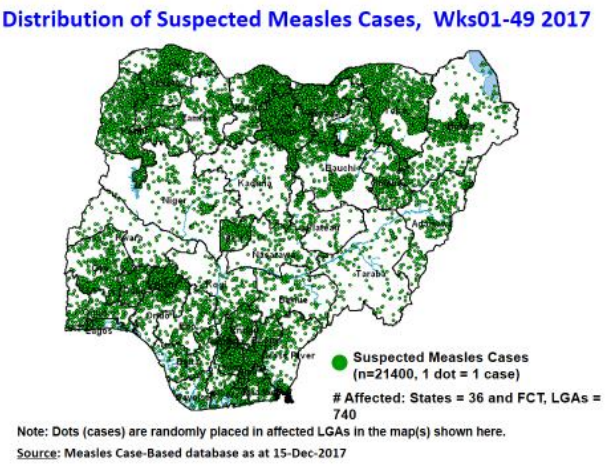
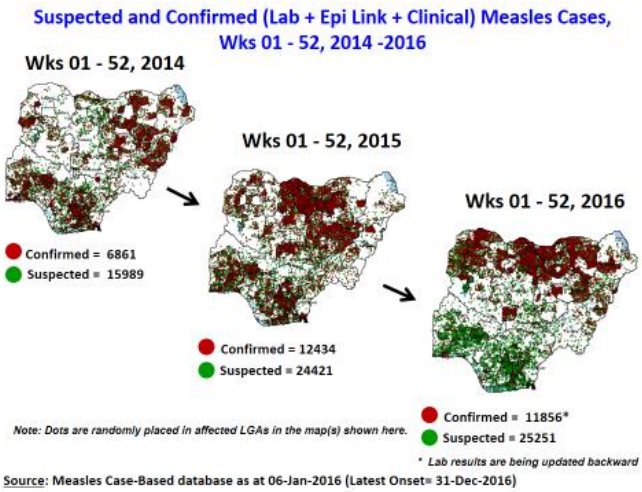


Figure 5: Suspected & confirmed (Lab + Epi Link + Clinical) Measles cases weeks 1 – 52, 2014 – 2016



3. POLIOMYELITIS

3.1. As at December 8th 2017, no new case of WPV was recorded

3.2. Three new cVDPV2, environmental derived and Polio compatible cases identified

3.2.1. In the reporting week, 119 cases of AFP were reported from 104 LGAs in 31 States and FCT

3.2.2. AFP Surveillance has been enhanced and outbreak response is on-going in Borno and other high risk States

3.2.3. The 1st round of SIPDs in 2017 was conducted from 28th – 31st January 2017 in the 18 high risk States. This was carried out using mOPV2 (2nd mOPV2 OBR). The schedule for other SIAs is as described in Table 2

3.2.4. The 2nd and 3rd round of SIPDs completed (25th-28th February and 8th – 11th July, 2017) in 14 & 18 high risk States using bOPV respectively.

3.2.5. The 1st and 2nd rounds of NIPDs completed (from 25th – 28th March, 2017 and 22nd – 25th April, 2017) nationwide respectively.

3.2.6. The 4th round of SIPDs completed from 14th- 17th October, 2017 in 18 high risk States using bOPV.

3.2.7. The 5th round of SIPDs completed from 9th- 12th December, 2017 in 6 high risk States using bOPV.

3.2.8. Between weeks 1 and 52 in 2016, four WPVs were isolated from Borno State compared to no WPV isolated during the same period in 2015.

3.3. No circulating Vaccine Derived Polio Virus type 2 (cVDPV2) was isolated in week 1 - 52, in both 2016 and 2015.

3.4. Between weeks 1 and 52, 2016 two (2) cVDPV2 were isolated in two LGAs (two States) while one (1) cVDPV2 was isolated from Kwali, FCT during the same period in 2015.

3.5. Six confirmed WPVs were isolated in 2014.

3.6. The SIAs were strengthened with the following events:

3.6.1. Immunisation for all vaccine-preventable diseases in some selected wards/LGAs.

3.6.2. Use of health camp facilities.

3.6.3. Field supportive supervision and monitoring.

3.6.4. Improved Enhanced Independent Monitoring (EIM) and Lots Quality Assessments (LQAs) in all Polio high risk States.

3.6.5. High level of accountability framework

Figure 6: Polio Compatible cases in Nigeria as at Week 1 - 52, 2014 - 2016 (Data as at 08/12/17)

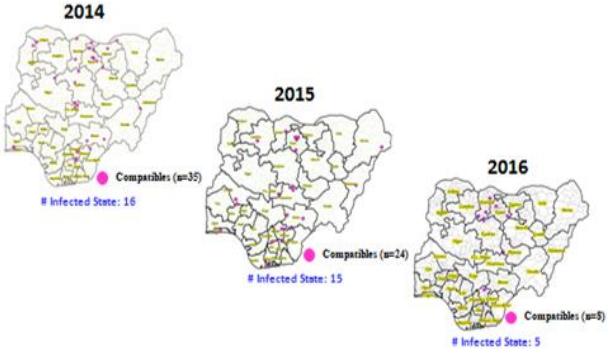


Table 2: 2017 SIAs

S/N	Month	Dates	Scope	Remarks	Target Populations	Antigen
1	January	28th - 31st	SIPDs (18 States)	2nd mOPV2 OBR in 18 states	33,478,035	mOPV2
2	February	25th - 28th	SIPDs (14 High Risk States)	List of high risk states reviewed using the HR Algorithm and local information on risk	26,256,251	bOPV
3	March	25th - 28th	NIPDs (36+1)	Nationwide	59,961,520	bOPV
4	April	22nd - 25th	NIPDs (36+1)	Nationwide	59,961,520	bOPV
5	July	8th-11th	SIPDs (18 High Risk States)	High Risk States	33,478,035	bOPV
6	October	14th - 17th	SIPDs (18 High Risk States)	High Risk States	33,478,035	bOPV
7	December	9th - 12th	SIPDs (6 High Risk States)	High Risk States		bOPV

4. CHOLERA

4.1. 11 suspected cases of Cholera were reported from three LGAs (two States; Kano – 10 & Kaduna -1) in week 49 compared with three suspected cases reported from Igabi LGA (Kaduna State) during the same period in 2016.

4.2. Between weeks 1 and 49 (2017), 3714 suspected Cholera cases with 43 laboratory confirmed and 84 deaths (CFR, 2.26%) from 74 LGAs (20 States) were reported compared with 727 suspected cases and 32 deaths (CFR, 4.40%) from 56 LGAs (14 States) during the same period in 2016 (Figure 7).

4.3. Between weeks 1 and 52 (2016), 768 suspected Cholera cases with 14 laboratory confirmed cases and 32 deaths (CFR, 4.17%) from 57 LGAs (14 States) were reported compared with 5,301 cases with 29 laboratory confirmed cases and 186 deaths (CFR, 3.51%) from 101 LGAs (18 States and FCT) during the same period in 2015 (Figure 8).

4.4. Cholera preparedness workshop held from 31st May – 1st June, 2017 in Abuja to develop Cholera preparedness plan as the season set in.

4.5. NCDC/partners provided onsite support in Kwara, Zamfara and Kebbi States.

4.6 NCDC/partners are providing onsite support in Borno State.

4.7. Preparedness and Response to Acute Watery Diarrhoea/ Cholera Guidelines have been finalised: http://ncdc.gov.ng/themes/common/docs/protocols/45_1507196550.pdf

4.8. States are enjoined to intensify surveillance, implement WASH activities and ensure early reporting.

Figure 7: Status of LGAs/States that reported Cholera cases in week 1- 49, 2016 & 2017

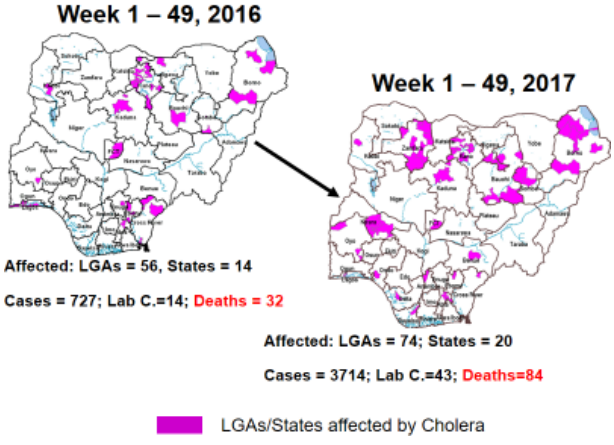
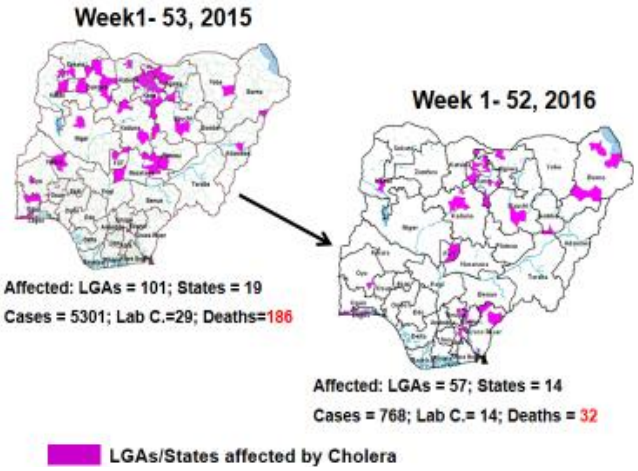


Figure 8: Status of LGAs/States that reported Cholera cases in week 1- 52, 2015 & 2016



5. CEREBROSPINAL MENINGITIS (CSM)

5.1 In the reporting week 49, 11 suspected Cerebrospinal Meningitis (CSM) cases and one death (CFR, 9.09%) were reported from nine LGAs (five States; Cross River – 1, Ebonyi – 1, Katsina - 6, Osun – 1 & Oyo – 2) compared with nine suspected cases and two deaths (CFR,22.22%) from four LGAs (four States) at the same period in 2016

5.2 Between weeks 1 and 48 (2017), 9929 suspected CSM cases with 108 laboratory confirmed cases and 607 deaths (CFR, 6.11%) were recorded from 326 LGAs (34 States) compared with 822 suspected cases and 33 deaths (CFR, 4.01%) from 154 LGAs (31 States) during the same period in 2016 (Figure 9)

5.3 Between weeks 1 and 52, 2016, 831 suspected CSM cases with 43 laboratory confirmed cases and 33 deaths (CFR, 3.97%) were recorded from 154 LGAs (30 States and FCT) compared with 2,711 suspected cases and 131 deaths (CFR, 4.83%) from 170 LGAs (28 States and FCT) during the same period in 2015 (Figure 10)

Figure 9: Map of Nigeria showing areas Week 1 - 48, 2016 & 2017

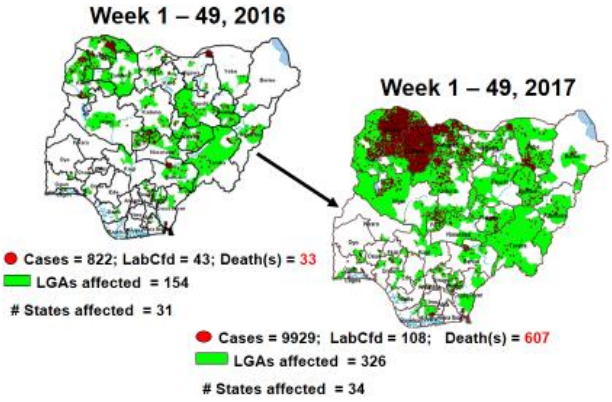
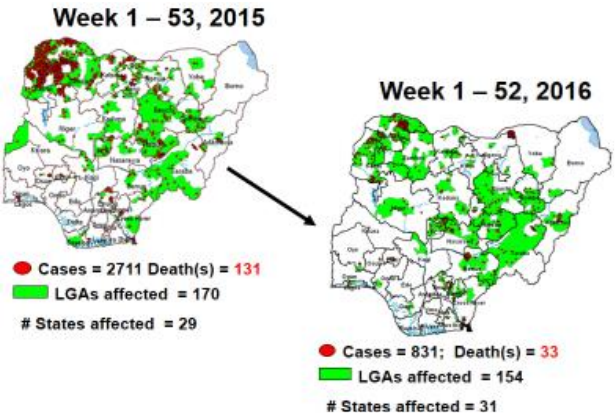


Figure 10: Nigeria: Dot maps of CSM cases, affected by CSM, aWeek 1- 53, 2015 & 2016



5.4 Timeliness/completeness of CSM case-reporting from States to the National Level (2017 versus 2016): on average, 83.1% of the 26 endemic States sent CSM reports in a timely manner while 99.3% were complete in week 1 – 49, 2017 as against 85.5% timeliness and 98.7% completeness recorded within the same period in 2016

5.5 The National CSM Guidelines have been finalised and available via http://ncdc.gov.ng/themes/common/docs/protocols/51_1510449270.pdf

5.6 Enhanced surveillance/ case based surveillance to begin 1st of December 2017, ahead of the 2017/2018 dry season

5.7 Development of State specific CSM Epidemic Preparedness & Response plan completed in 11 Northern States within the Meningitis belt

5.8 Letters of alert have been developed and disseminated to all States with clear recommendations

5.9 The National CSM Emergency Operations Centre has been activated and is currently on alert mode

6 GUINEA WORM DISEASE

6.1 In the reporting week, no rumour report of Guinea Worm disease was received from any State.

6.2 Nigeria has celebrated eight consecutive years of zero reporting of Guinea worm disease in the country. The Country has been officially certified free of Dracunculiasis transmission by the International Commission for the Certification of Dracunculiasis Eradication (ICCDE).

(For further information, contact Nigeria Guinea Worm Eradication Program / Neglected Tropical Diseases Division, Public Health Department/Federal Ministry of Health)

7. Update on national Influenza sentinel surveillance, Nigeria week 1 - 50, 2017

7.1. From week 1-50, a total of 107 suspected cases were reported, of which 99 were Influenza like-illness (ILI), 8 Severe Acute Respiratory Infection (SARI).

7.2 A total of 107 samples were received and 107 samples were processed. Of the processed samples, 99(92.5%) were ILI cases, 8(7.5%) were Severe Acute Respiratory Infection (SARI).

7.4. Of the 99 processed ILI samples, 1(1.01%) was positive for Influenza A; 2(2.02%) positive for Influenza B and 96(96.97%) were negative.

7.5. Of the 8 processed SARI samples, none was positive for Influenza A and Influenza B.

7.6. 3(2.80%) of the processed 107 samples were positive for Influenza, with 1(33.3%) of these positive for Influenza A and 2(66.7%) positive for Influenza B.

7.7. The subtypes A seasonal H3, 2009A/H1N1 and A/not subtyped account for (100%), 0(0.0%) and 0(0.0%) of the total influenza A positive samples respectively.

7.8. The percentage influenza positive was highest (50.0%) in week 14, 2017

7.9. In the reporting week 50, none samples were left unprocessed

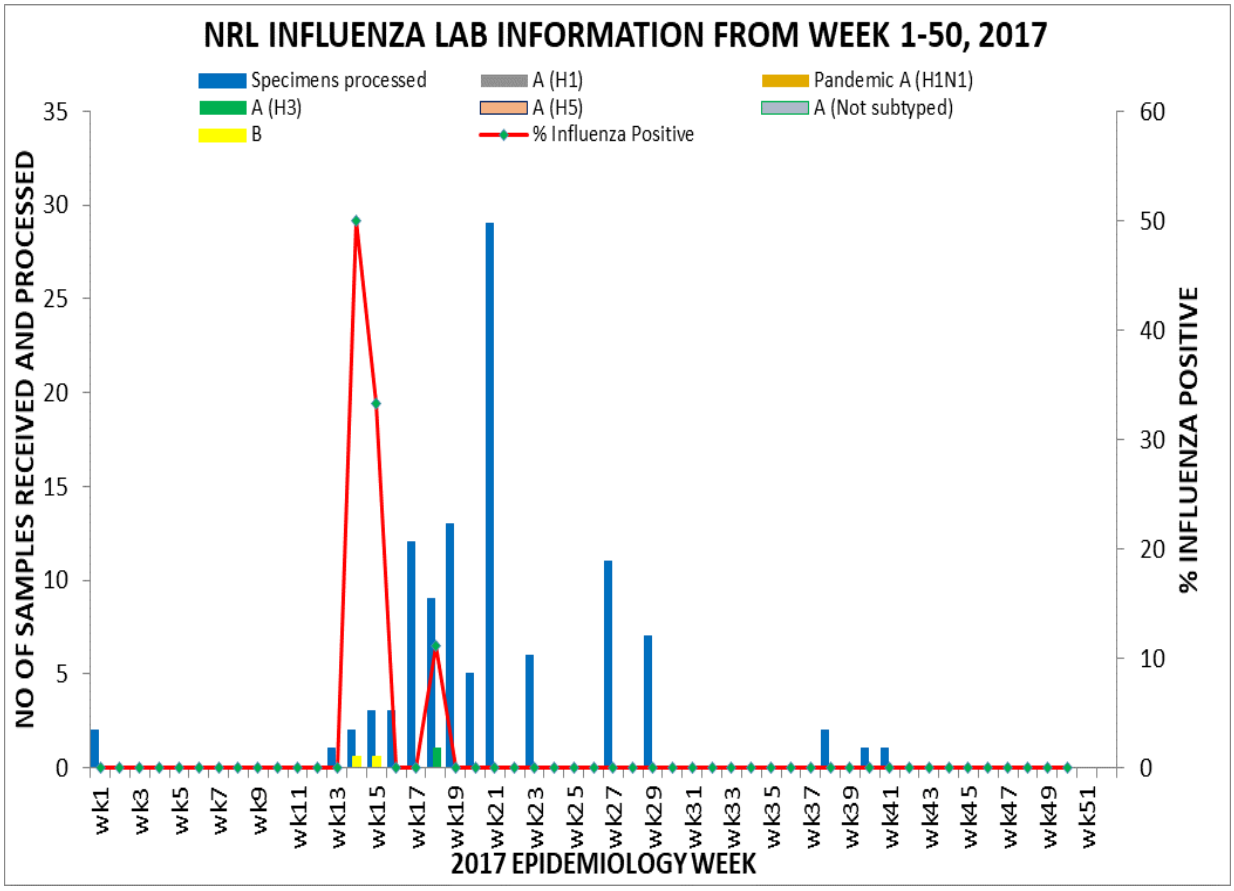


Figure 19: Number of Influenza Positive Specimens and Percent Positive by Epidemiological Week (Week 1- 50, 2017)

FOR MORE INFORMATION CONTACT
Surveillance Unit:
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www.ncdc.gov.ng/reports
0800-970000-10

Table 3: Status of Reporting by the State Epidemiologists, Nigeria, Weeks 1 – 49, 2017, as at 15th December, 2017

Keys:

T= Arrived on Time

L= Arrived late

N Report not received

N = No Report (Report not received)

Timely Reports			
	<50%	Poor	0 States
	50-79%	Good	11 States
	80-100%	Excellent	26 States

	State	GeoZones	W01	W02	W03	W04	W05	W06	W07	W08	W09	W10	W11	W12	W13	W14	W15	W16	W17	W18	W19	W20	W21	W22	W23	W24	W25	W26	W27	W28	W29	W30	W31	W32	W33	W34	W35	W36	W37	W38	W39	W40	W41	W42	W43	W44	W45	W46	W47	W48	W49	Expected (Es)	Timely Rpts (Ts)	Late Rpts (Ls)	Rpts Not Recvd (Ns)	% Timely	% Complete
1	Abia	SEZ	L	L	L	L	L	T	L	T	L	T	T	L	T	T	L	L	T	T	T	T	T	T	T	T	T	L	T	T	T	T	T	T	T	T	T	T	T	T	T	L	T	T	T	T	T	T	L	T	L	49	35	14	0	71%	100%
2	Adamawa	NEZ	L	L	L	L	L	L	T	L	T	T	T	T	T	L	L	T	L	T	L	L	L	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	L	L	T	T	T	T	T	T	T	T	T	T	49	34	15	0	69%	100%
3	Akwa Ibom	SSZ	T	L	T	T	T	T	L	T	T	T	L	L	L	T	T	T	T	T	T	T	L	T	T	L	L	L	L	T	T	T	T	T	T	L	L	T	T	T	L	T	T	T	T	T	T	T	T	T	T	49	36	13	0	73%	100%
4	Anambra	SEZ	T	T	T	T	L	T	T	T	T	T	L	L	T	T	T	T	T	T	T	T	L	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	49	45	4	0	92%	100%
5	Bauchi	NEZ	T	T	T	T	T	T	T	L	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	L	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	49	47	2	0	96%	100%
6	Bayelsa	SSZ	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	49	49	0	0	100%	100%
7	Benue	NCZ	T	T	T	T	T	T	L	T	T	T	T	T	T	L	L	T	L	T	T	T	L	T	L	T	T	T	T	T	T	T	T	T	T	T	T	T	L	L	T	T	T	T	T	T	L	T	T	T	T	49	40	9	0	82%	100%
8	Borno	NEZ	L	T	T	T	T	T	L	L	L	T	T	T	T	T	T	L	T	T	T	T	T	T	T	T	T	L	L	T	T	T	L	T	T	T	L	T	T	T	L	T	T	T	T	T	T	T	T	T	T	49	39	10	0	80%	100%
9	Cross River	SSZ	L	L	L	L	L	L	L	L	L	T	T	T	T	T	T	T	L	L	T	T	L	T	T	T	L	L	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	49	35	14	0	71%	100%
10	Delta	SSZ	L	T	L	L	L	T	L	L	L	L	L	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	L	T	T	T	T	T	T	T	T	T	T	49	39	10	0	80%	100%
11	Ebonyi	SEZ	T	L	L	L	T	L	T	T	L	T	T	T	T	T	T	T	L	L	T	T	T	T	T	T	T	T	T	T	L	T	T	L	L	T	T	T	L	T	T	T	L	T	L	L	L	L	L	L	T	49	31	18	0	63%	100%
12	Edo	SSZ	L	L	L	L	T	L	T	T	T	T	T	L	T	L	T	L	L	T	T	L	L	L	L	T	L	L	T	T	L	T	L	T	T	T	T	T	T	T	T	T	T	T	T	L	T	T	T	T	T	49	31	18	0	63%	100%
13	Ekiti	SWZ	T	T	T	T	T	T	T	T	T	T	L	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	49	48	1	0	98%	100%
14	Enugu	SEZ	L	L	L	L	T	L	T	L	T	T	T	T	L	T	T	T	T	T	T	T	L	L	T	T	T	L	T	T	T	T	T	T	T	T	T	T	T	L	T	T	L	T	T	T	L	T	T	T	T	49	36	13	0	73%	100%
15	FCT	NCZ	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	49	49	0	0	100%	100%
16	Gombe	NEZ	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	L	T	T	T	T	T	T	T	T	L	T	L	L	T	L	L	T	L	L	L	L	L	L	L	T	T	T	T	T	T	T	T	T	49	36	13	0	73%	100%
17	Imo	SEZ	L	L	L	L	L	L	L	L	L	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	49	40	9	0	82%	100%
18	Jigawa	NWZ	T	T	T	L	L	L	L	L	T	T	T	T	T	T	T	T	T	T	T	L	T	L	T	L	L	L	L	T	L	T	L	T	T	T	T	L	L	L	L	L	L	L	T	L	L	T	T	L	L	49	25	24	0	51%	100%
19	Kaduna	NWZ	T	T	T	T	L	T	L	T	T	T	L	T	T	T	T	T	T	T	T	T	T	T	T	T	L	T	L	T	T	T	T	T	T	L	T	T	T	T	T	L	L	T	T	T	T	T	T	T	T	49	41	8	0	84%	100%
20	Kano	NWZ	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	49	49	0	0	100%	100%
21	Katsina	NWZ	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	L	T	T	T	L	T	L	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	49	46	3	0	94%	100%
22	Kebbi	NWZ	T	T	T	T	L	L	T	T	T	T	T	T	L	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	49	46	3	0	94%	100%
23	Kogi	NCZ	T	T	T	T	T	T	T	T	T	T	T	T	T	L	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	L	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	49	47	2	0	96%	100%
24	Kwara	NCZ	L	L	L	L	L	L	L	L	L	T	L	L	L	L	L	L	L	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	49	33	16	0	67%	100%
25	Lagos	SWZ	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	L	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	49	48	1	0	98%	100%
26	Nasarawa	NCZ	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	L	T	T	T	T	T	T	T	T	T	T	L	T	T	T	T	T	T	T	T	T	T	T	T	T	49	47	2	0	96%	100%
27	Niger	NCZ	T	T	T	T	T	T	T	T	L	T	T	T	T	T	T	T	T	T	T	T	T	T	T	L	L	L	T	T	L	T	T	T	L	L	L	L	L	T	L	T	T	T	T	T	T	T	L	L	T	49	36	13	0	73%	100%
28	Ogun	SWZ	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	49	49	0	0	100%	100%
29	Ondo	SWZ	T	T	T	T	T	T	T	T	T	T	T	T	L	T	L	T	T	T	L	T	T	T	L	T	T	T	T	T	T	T	T	T	T	T	T	T	L	L	T	T	T	T	T	T	T	T	T	T	T	49	43	6	0	88%	100%
30	Osun	SWZ	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	49	49	0	0	100%	100%
31	Oyo	SWZ	T	T	L	T	T	T	T	T	L	T	T	T	L	L	T	T	L	T	T	T	T	T	L	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	L	T	T	T	T	T	T	T	49	42	7	0	86%	100%
32	Plateau	NCZ	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	49	49	0	0	100%	100%
33	Rivers	SSZ	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	49	49	0	0	100%	100%
34	Sokoto	NWZ	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	49	49	0	0	100%	100%
35	Taraba	NEZ	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	L	T	L	L	L	T	L	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	L	T	T	49	43	6	0	88%	100%
36	Yobe	NEZ	T	L	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	49	48	1	0	98%	100%
37	Zamfara	NWZ	T	T	T	L	T	L	L	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	L	T	L	T	T	T	T	T	T	T	T	T	T	T	T	T	49	44	5	0	90%	100%
	Total number of reports expected (E)		37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	1813					
	Total reports sent on time (T)		28	27	27	26	27	27	26	28	28	36	31	32	31	31	32	33	29	35	34	34	30	34	31	34	28	27	31	36	31	36	33	35	34	32	33	32	31	31	30	33	33	35	36	34	33	36	33	34	35		1553				
	Total reports sent late (L)		9	10	10	11	10	10	11	9	9	1	6	5	6	6	5	4	8	2	3	3	7	3	6	3	9	10	6	1	6	1	4	2	3	5	4	5	6	6	7	4	4	2	1	3	4	1	4	3	2			260			
	Total number of reports not received (N)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				0		
	Timeliness of reports =100*T/E		75.7	73.0	73.0	70.3	73.0	73.0	70.3	75.7	75.7	97.3	83.8	86.5	83.8	83.8	86.5	89.2	78.4	94.6	91.9	91.9	81.1	91.9	83.8	91.9	75.7	73.0	83.8	97.3	83.8	97.3	89.2	94.6	91.9	86.5	89.2	86.5	83.8	83.8	81.1	89.2	89.2	94.6	97.3	91.9	89.2	97.3	89.2	91.9	94.6					86%	
	Completeness of reporting=100*(E-N)/E		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0						100%

Latest Week 49

Last updated 15th December, 2017

Table 4: Updates on Epidemics, Week 1- 49 (4th – 10th December, 2017) as at 15th December, 2017

SNO	State	StatePop2016	Status of Report	AFP New Cases	AFP New LabCfd	AFP New Deaths	AFP Cumulative Data Wk01-49 Cases	AFP Cum. LabCfd	AFP Cum. Deaths	AFP Cum. CFR	CSM New Cases	CSM New LabCfd	CSM New Deaths	CSM Cumulative Data Wk01-49 Cases	CSM Cum. LabCfd	CSM Cum. Deaths	CSM Cum. CFR
1	Abia	3,699,169	L				192							1			
2	Adamawa	4,216,506	T	1			491							28	5		
3	Akwa Ibom	5,476,644	T	1			156										
4	Anambra	5,512,118	T	3			231							9			
5	Bauchi	6,533,157	T	6			580							13	1	4	30.77
6	Bayelsa	2,267,043	T	2			154							1			
7	Benue	5,670,311	T	5			337							33			
8	Borno	5,799,337	T	12			481							26		2	7.69
9	Cross River	3,844,999	T	1			242				1			51		3	5.88
10	Delta	5,615,784	T				124							13	1		
11	Ebonyi	2,864,778	T				112				1			24			
12	Edo	4,200,832	T	7			442							2		1	50.00
13	Ekiti	3,235,426	T	5			363										
14	Enugu	4,377,536	T	8			315							14		1	7.14
15	FCT	3,419,323	T	4			417							61	2	7	11.48
16	Gombe	3,225,382	T	8			384							52		2	3.85
17	Imo	5,391,760	T	1			377										
18	Jigawa	5,787,728	L	2			873							48	2	1	2.08
19	Kaduna	8,152,952	T	1			480							83	2	4	4.82
20	Kano	12,983,043	T	10			1174							294	24	23	7.82
21	Katsina	7,784,740	T	3			620				6		1	634	20	62	9.78
22	Kebbi	4,394,887	T	2			781							113	19	10	8.85
23	Kogi	4,406,012	T	6			251							10			
24	Kwara	3,186,545	T				70							1			
25	Lagos	12,350,714	T	4			304							16		2	12.50
26	Nasarawa	2,504,086	T	2			289							22			
27	Niger	5,518,612	T				222							116		33	28.45
28	Ogun	5,158,109	T	7			353							15		2	13.33
29	Ondo	4,624,449	T	1			288							22			
30	Osun	4,691,068	T	1			278				1			10		1	10.00
31	Oyo	7,811,611	T	1			262				2			47			
32	Plateau	4,149,116	T	4			521							56	2	3	5.36
33	Rivers	7,244,154	T	4			405							28			
34	Sokoto	4,968,458	T	3			347							3911		184	4.70
35	Taraba	3,035,153	T	1			309							28			
36	Yobe	3,274,833	T	1			453							236	11	26	11.02
37	Zamfara	4,466,775	T	2			247							3911	19	236	6.03
	Total	191,843,149	35T=95%	119			13925				11		1	9929	108	607	6.11

SNO	State	Cholera New Cases	Cholera New LabCfd	Cholera New Deaths	Cholera Cumulative Data Wk01-49 Cases	Cholera Cum. LabCfd	Cholera Cum. Deaths	Cholera Cum. CFR	Measles New Cases	Measles New LabCfd	Measles New Deaths	Measles Cumulative Data Wk01-49 Cases	Measles Cum. LabCfd	Measles Cum. Deaths	Measles Cum. CFR
1	Abia				2				2			455			
2	Adamawa											695			
3	Akwa Ibom								7			82			
4	Anambra				3	1			7			411			
5	Bauchi				22	1	3	13.64	24			2252	13	5	0.22
6	Bayelsa				8				1			151			
7	Benue				2				2			248			
8	Borno				2250		38	1.69	8			1521		14	0.92
9	Cross River				2				4			253			
10	Delta				3				5			178			
11	Ebonyi				9		4	44.44	2			133			
12	Edo								9			218	1		
13	Ekiti								12			710			
14	Enugu								6			237	3		
15	FCT				5				1			198	2		
16	Gombe				37				1			836	1	15	1.79
17	Imo								3			330			
18	Jigawa				17				4			885	3		
19	Kaduna	1			168		7	4.17	9			1249	44	15	1.20
20	Kano	10			247	8	7	2.83				1441		20	1.39
21	Katsina								10			1207	3	4	0.33
22	Kebbi				3	3						613		2	0.33
23	Kogi								3			284			
24	Kwara				487	14	3	0.62				102			
25	Lagos				56	5	6	10.71	2			328			
26	Nasarawa								14			373			
27	Niger								27		2	313		6	1.92
28	Ogun								9			512			
29	Ondo				7				2			337	1		
30	Osun								6			504			
31	Oyo				38	2	1	2.63				545			
32	Plateau								1			482	20	2	0.41
33	Rivers								3			180			
34	Sokoto								45			1747		12	0.69
35	Taraba								2			212	1		
36	Yobe								3			656		13	1.98
37	Zamfara				348	9	15	4.31				522	17	6	1.15
	Total	11			3714	43	84	2.26	238		2	21400	109	114	0.53

SNO	State	Lassa Fever New Cases	Lassa New LabCfd	Lassa New Deaths	Lassa Cumulative Data Wk01-49 Cases	Lassa Cum. LabCfd	Lassa Cum. Deaths	Lassa Cum. CFR	Guineaworm Disease New Cases	Guineaworm New LabCfd	Guineaworm New Deaths	Guineaworm Cumulative Data Wk01-49 Cases	Guineaworm Cum. LabCfd	Guineaworm Cum. Deaths	Guineaworm Cum. CFR
1	Abia				23	3									
2	Adamawa				6		2	33.33							
3	Akwa Ibom														
4	Anambra				2	1									
5	Bauchi	1			24	8	6	25.00				1			
6	Bayelsa														
7	Benue				3										
8	Borno				1		1	100.00							
9	Cross River				8		1	12.50				2			
10	Delta														
11	Ebonyi				4	1	1	25.00							
12	Edo	15			287	49	12	4.18							
13	Ekiti														
14	Enugu				1	1	1	100.00							
15	FCT				8										
16	Gombe				23		1	4.35							
17	Imo														
18	Jigawa				1										
19	Kaduna				3	1									
20	Kano				23	2	10	43.48							
21	Katsina				6				1			1			
22	Kebbi				1		1	100.00							
23	Kogi				10	2	2	20.00							
24	Kwara				71	1									
25	Lagos				2	2									
26	Nasarawa				33	6	2	6.06							
27	Niger														
28	Ogun				23	4									
29	Ondo	1	1		52	31	10	19.23							
30	Osun														
31	Oyo				4										
32	Plateau				42	11	7	16.67							
33	Rivers	1		1	7	1	1	14.29							
34	Sokoto														
35	Taraba				40	12	9	22.50							
36	Yobe				6	3	2	33.33							
37	Zamfara														
	Total	18	1	1	714	139	69	9.66	1			4			

SNO	State	HPAI New Cases	HPAI New LabCfd	HPAI New Deaths	HPAI Cumulative Data Wk01-49 Cases	HPAI Cum. LabCfd	HPAI Cum. Deaths	HPAI Cum. CFR	Other Diseases/Events New Cases	Other New LabCfd	Other New Deaths	Other Cumulative Data Wk01-49 Cases	Other Cum. LabCfd	Other Cum. Deaths	Other Cum. CFR	Remarks
1	Abia											6				
2	Adamawa											15		1	6.67	
3	Akwa Ibom											8				
4	Anambra															
5	Bauchi											13				
6	Bayelsa											8				
7	Benue											1				
8	Borno								22			213				
9	Cross River											68		8	11.76	
10	Delta											11				
11	Ebonyi											9				
12	Edo											2				
13	Ekiti											2				
14	Enugu															
15	FCT											1				
16	Gombe											6				
17	Imo											1				
18	Jigawa															
19	Kaduna											14				
20	Kano								17			2162				
21	Katsina											553	22			
22	Kebbi															
23	Kogi											41				
24	Kwara															
25	Lagos											7				
26	Nasarawa								4			610				
27	Niger											159		10	6.29	
28	Ogun															
29	Ondo															
30	Osun															
31	Oyo															
32	Plateau															
33	Rivers								7			28				
34	Sokoto															
35	Taraba											8		2	25.00	
36	Yobe															
37	Zamfara											42		8	19.05	
	Total								50			3988	22	29	0.73	

Please note that the reporting status in this table is from WHO State office

Source: Nigeria Center for Disease Control, FMoH

Status of Report: T=Timely; L=Late; N=No Report