

# Weekly Epidemiology Report



## Nigeria Centre for Disease Control (NCDC) Federal Ministry of Health - Nigeria

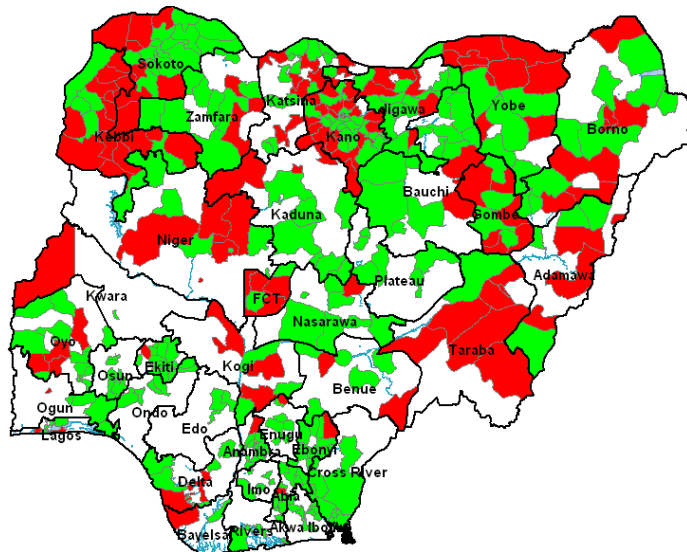
Issue: Volume 6 No. 45

18<sup>th</sup> November, 2016

### Summary Table (IDSR Weekly Report as at 18/11/2016)

Disease	Variables	Week 44	Week 45		Cumulative Weeks	
		2016	2016	2015	01 - 45, 2016	01 - 45, 2015
AFP	Cases	215	289	126	12,063	7,330
	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	4	0
	WPV Types 1	0	0	0	4	0
	WPV Types 3	0	0	0	0	0
Cholera	Cases	2	1	2	715	5186
	Deaths	0	0	0	32	186
	CFR	0.00%	0.00%	0.00%	4.48%	3.59%
Lassa Fever	Cases	5	4	1	868	271
	Deaths	3	1	0	107	7
	CFR	60.00%	25.00%	0.00%	12.33%	2.58%
CSM	Cases	13	10	3	783	2,676
	Deaths	0	0	0	31	130
	CFR	0.00%	0.00%	0.00%	3.96%	4.86%
Measles	Cases	194	157	307	23,973	22,222
	Deaths	0	0	0	100	100
	CFR	0.00%	0.00%	0.00%	0.42%	0.45%
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%

### States/LGAs with Measles Outbreaks (Suspected/Lab-Confirmed), Wks01- 45, 2016

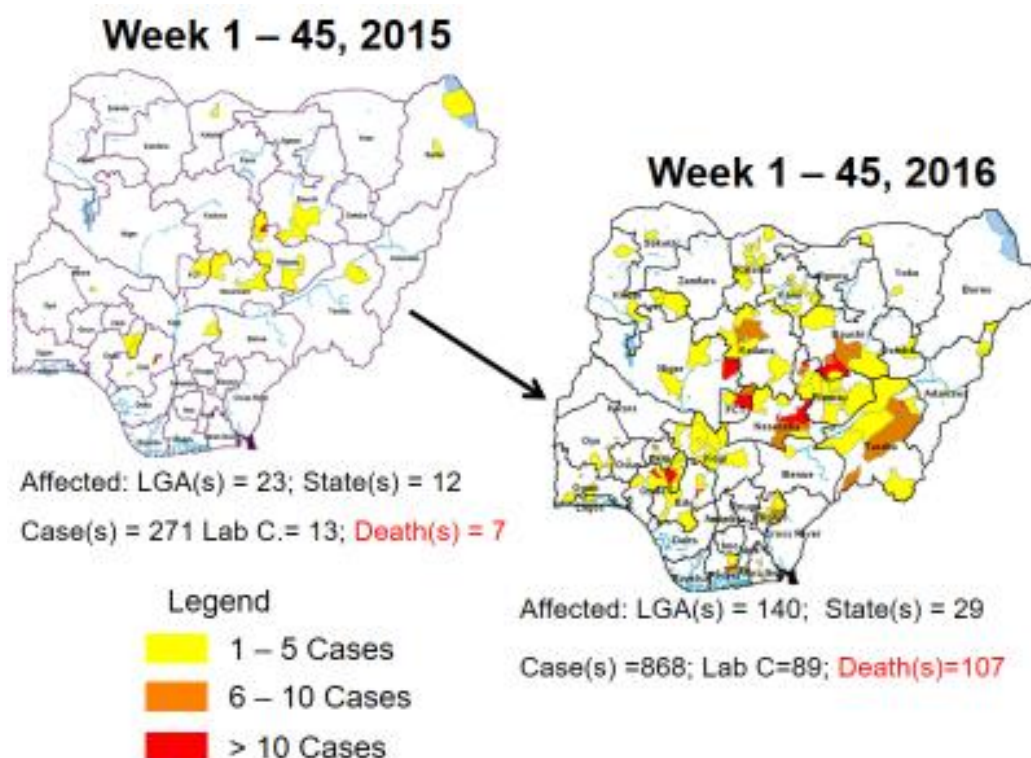


■ Suspected Outbreaks (OBs)=525, Cases=14567  
 Affected: #States=36 and FCT, #LGAs=404
 ■ Lab-confirmed Outbreaks (OBs)=149, Cases=840  
 Affected: #States=29, #LGAs=136.  
*(Generated from Measles-Lab Database)*

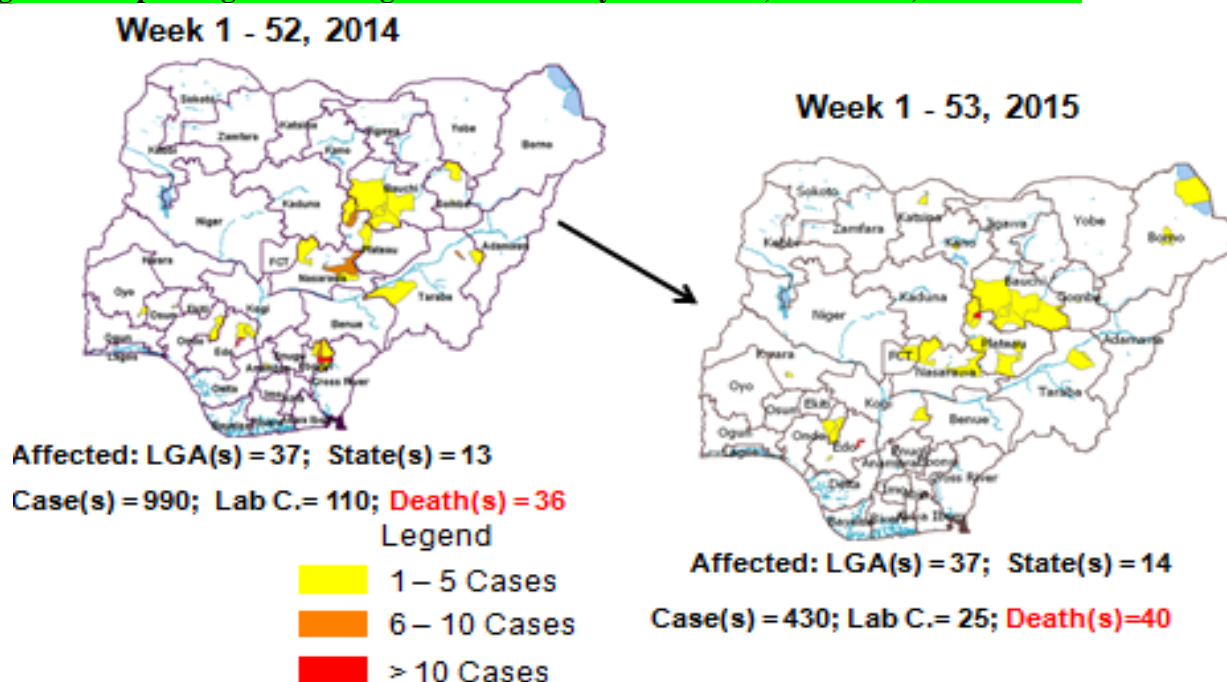
Source: Measles Case-Based database as at 18-Nov-2016 (latest Onset: 15-Nov-2016)

**1. \*\*Lassa fever update for week 45 as at 18<sup>th</sup> November, 2016; (\*\*Please note that the data reflects the routine reports i.e. all suspected cases including the laboratory positive and negative cases)**

- 1.1. Four suspected cases of Lassa fever and 1 death (CFR, 25%) were reported from 3 LGA (3 States) in week 45, 2016 compared with 1 case from Jos North LGA (Plateau State) at the same period in 2015 (Figure 1).
- 1.2. Laboratory results of the 4 suspected were negative for Lassa fever and other VHF.
- 1.3. Between weeks 1 and 45 (2016), 868 suspected Lassa fever cases with 89 lab-confirmed and 107 deaths (CFR, 12.33%) from 140 LGAs (29 States) were reported compared with 271 suspected cases with 13 lab-confirmed and seven (7) deaths (CFR, 2.58%) from 23 LGAs (12 States) at the same period in 2015 (Figure 1).
- 1.4. Between weeks 1 & 53 2015, 430 suspected Lassa fever cases with 25 lab-confirmed and 40 deaths (CFR, 9.30%) from 37 LGAs (14 States & FCT) were reported compared with 989 suspected cases with 110 lab-confirmed and 36 deaths (CFR, 3.64%) from 37 LGAs (13 States) at the same period in 2014 (Figure 2).
- 1.5. Investigation and active case search ongoing in affected states with coordination of all response activities by NCDC and support from partners.
  - 1.5.1. National Surveillance and Outbreak Response Working Group meeting on-going at NCDC to assess the current Lassa fever situation in the Country
  - 1.5.2. Response materials for VHFs prepositioned across the country by NCDC
  - 1.5.3. New VHF guidelines being produced by NCDC
  - 1.5.4. Reclassification of reported Lassa fever cases is ongoing
  - 1.5.5. Reviewing the variable for case based surveillance for VHF
  - 1.5.6. States are enjoined to intensify surveillance



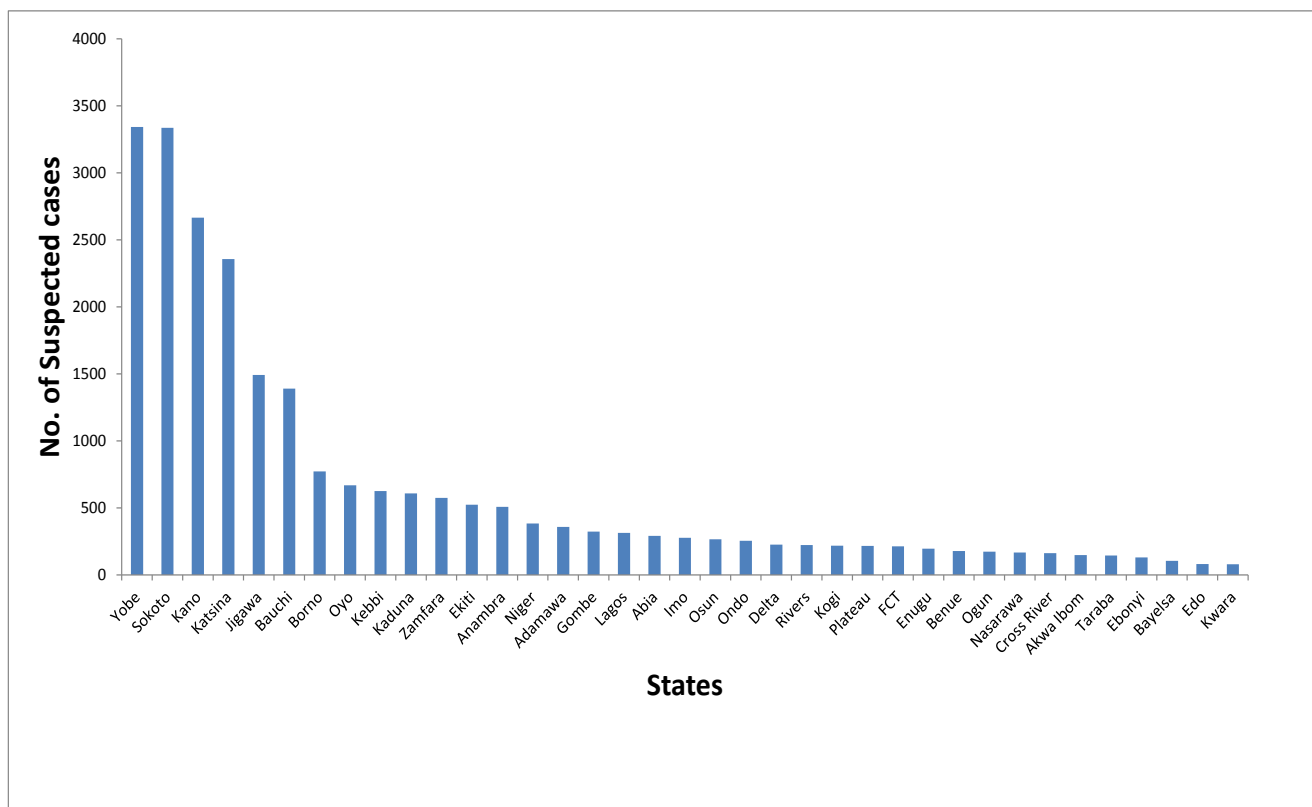
**Figure 1: Map of Nigeria showing areas affected by Lassa fever, week 1- 45, 2015 & 2016**



**Figure 2: Map of Nigeria showing areas affected by Lassa fever, week 1 - 53, 2014 & 2015**

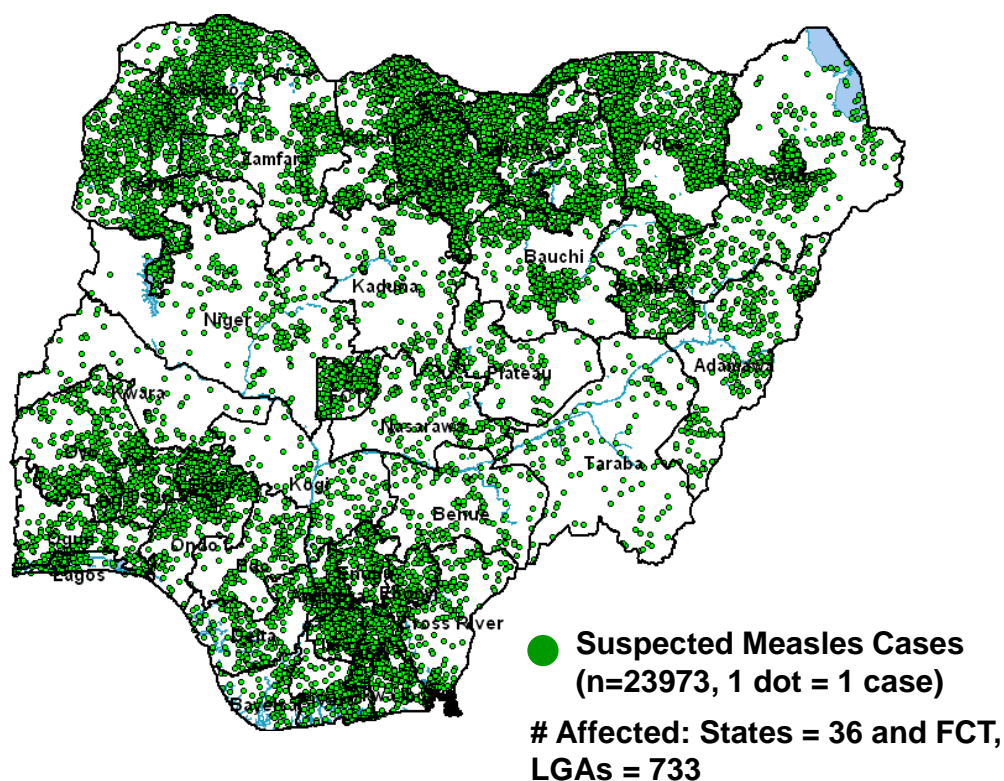
## 2. Update on suspected Measles for week 45 as at 18<sup>th</sup> November, 2016

- 2.1. In the reporting week 45 (2016), one hundred & fifty-five (157) suspected cases of Measles were recorded from 23 States & FCT compared with 307 suspected measles cases from 30 States & FCT at the same period in 2015.
- 2.2. So far, 23,973 suspected Measles cases and 100 deaths (CFR, 0.42%) have been reported in 2016 from 36 states & FCT (Figure 3 & 4) compared with 22,222 suspected cases and 100 deaths (CFR, 0.45%) from 36 states & FCT at the same period in 2015.
- 2.3. In 2015 (week 1 -53), 24,421 suspected measles cases with 127 deaths (CFR, 0.52%) were reported from 36 States and FCT compared with 15,989 suspected cases with 85 deaths (CFR, 0.53%) at the same period in 2014
- 2.4. Confirmed Measles cases (lab, epi-link and clinical): Between week 1- 45, (2016) 10,781 confirmed Measles cases were recorded compared to 11,582 confirmed at the same time in 2015. (Figure 5). Most affected were within the age group 9 - 59 months ( Figure 6 & 7 respectively). Vaccination status of the measles cases was 52.4% zero dose (Figure 8).
- 2.5. Response measure includes immunization for all vaccine-preventable diseases in some selected/ affected wards/LGAs during SIAs with case management.
- 2.6. Measles vaccination campaigns in the Northern and Southern States were conducted from 21<sup>st</sup> – 25<sup>th</sup> November, 2015 and 28<sup>th</sup> January – 1<sup>st</sup> February, 2016 respectively.



**Figure 3: Suspected measles cases by States, week 45, 2016 as at 18<sup>th</sup> November, 2016**

## Distribution of Suspected Measles Cases, Wks01-45 2016

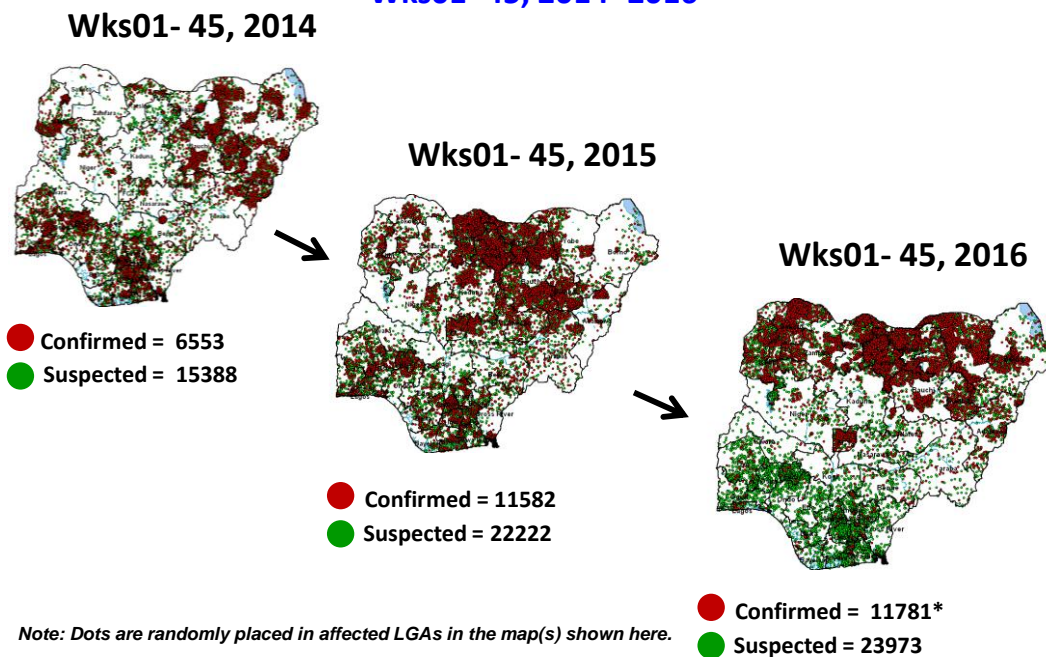


*Note: Dots (cases) are randomly placed in affected LGAs in the map(s) shown here.*

**Source:** Measles Case-Based database as at 18-Nov-2016

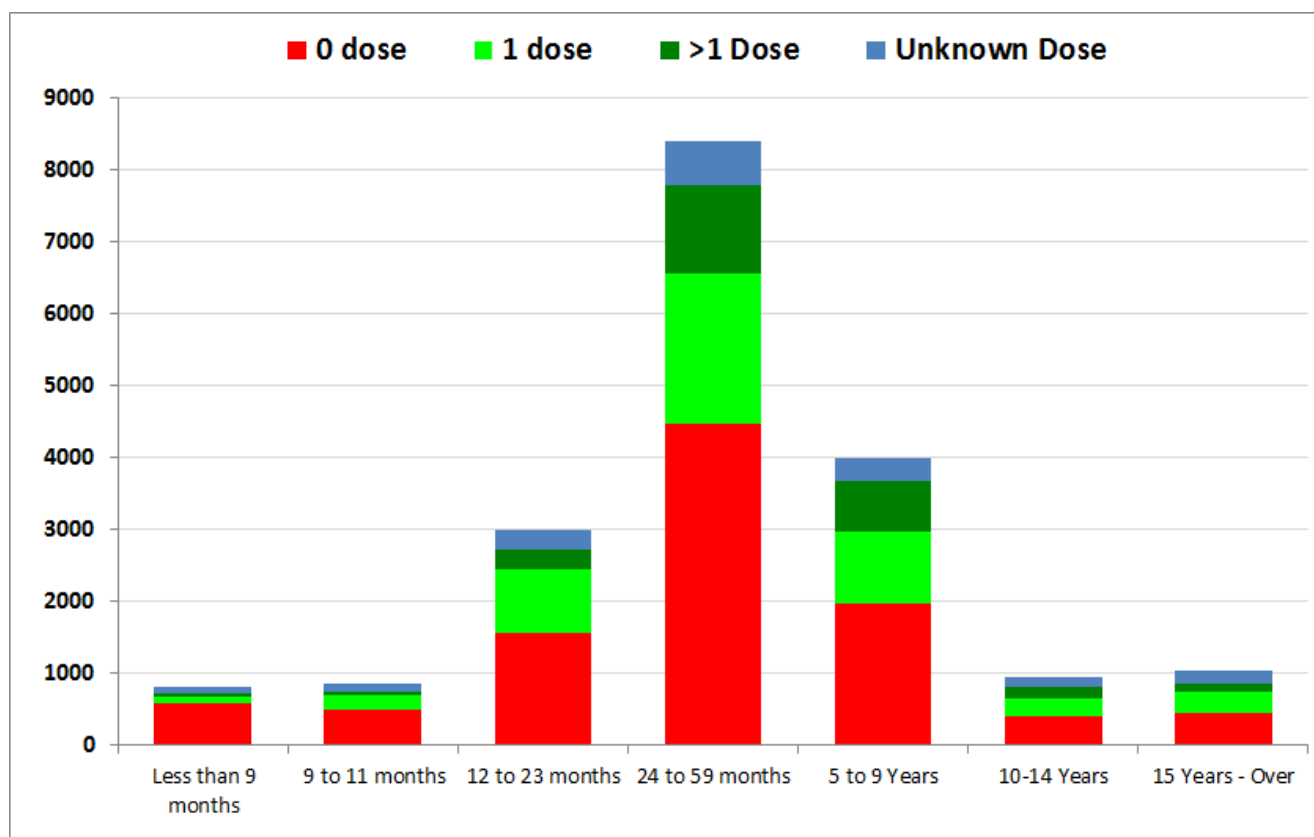
**Figure 4: Nigeria: Distribution of suspected measles cases, week 1 - 45, 2016 as at 18/11/16**

**Suspected and Confirmed (Lab + Epi Link + Clinical) Measles Cases,  
Wks01- 45, 2014 -2016**



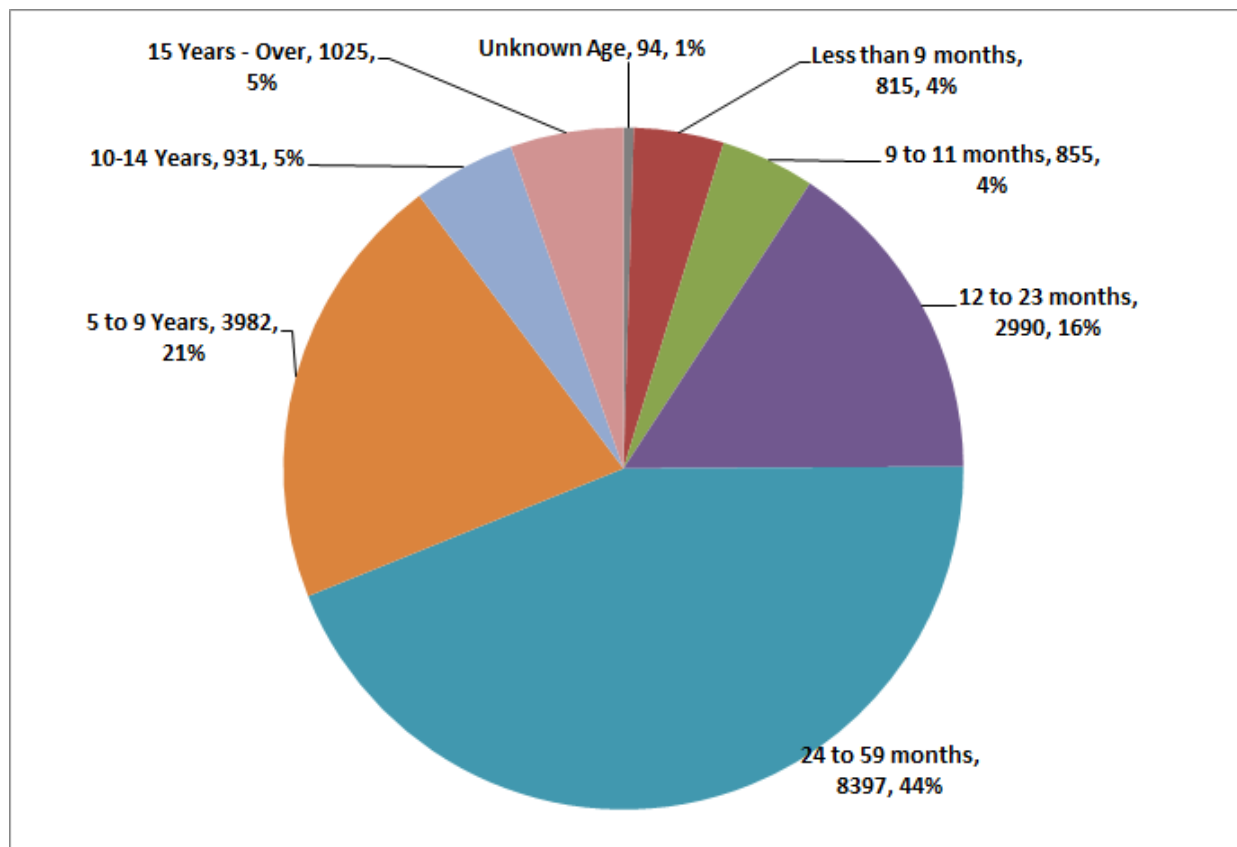
Source: Measles Case-Based database as at 18-Nov-2016 (Latest Onset= 15-Nov-2016)

**Figure 5: Nigeria: Suspected & Confirmed(Lab+Epi Link + Clinical) Measles cases, WK 1 - 45, 2014, 2015 & 2016**



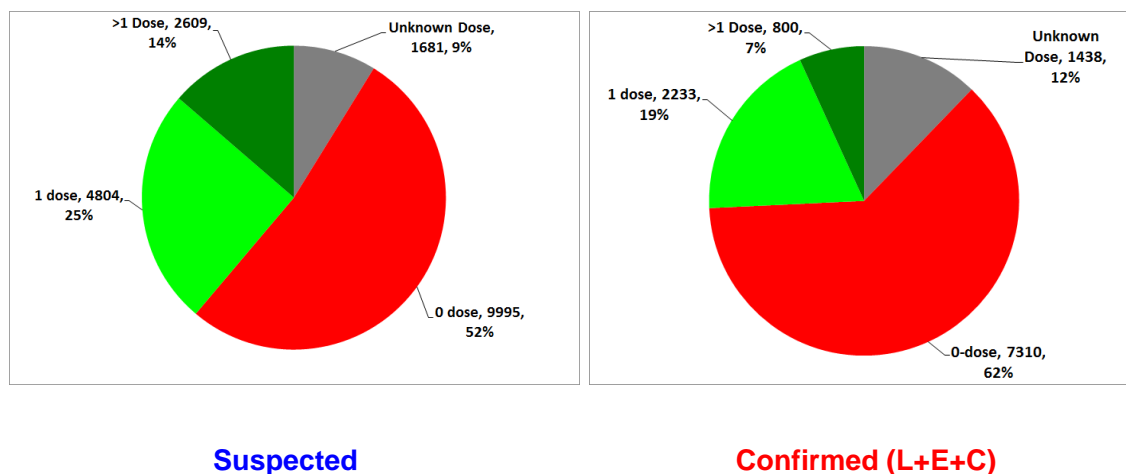
**Figure 6: Age and vaccination status of suspected measles cases in Nigeria, week 1 - 45, 2016 as at November 18<sup>th</sup>, 2016**





**Figure 7: Breakdown of suspected measles cases by age group in Nigeria, week 1 - 45, 2016 as at 18/11/16**

### Vaccination Status of Suspected/ Confirmed(L+E+C) Measles Cases, Weeks01- 45 2016

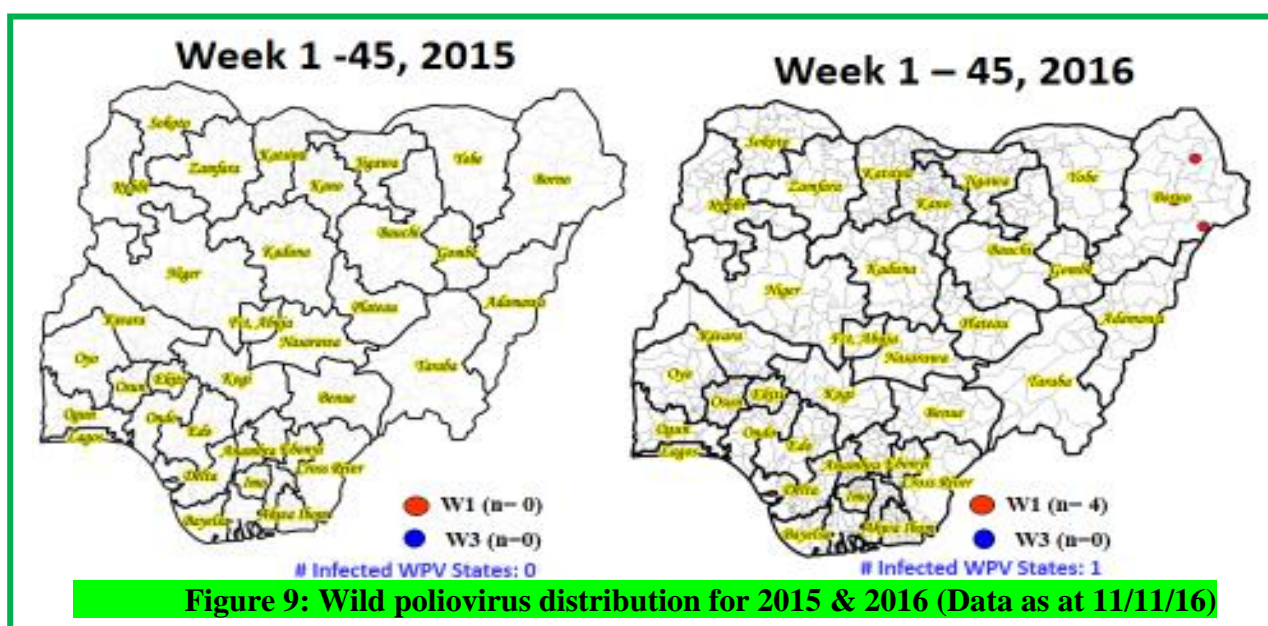


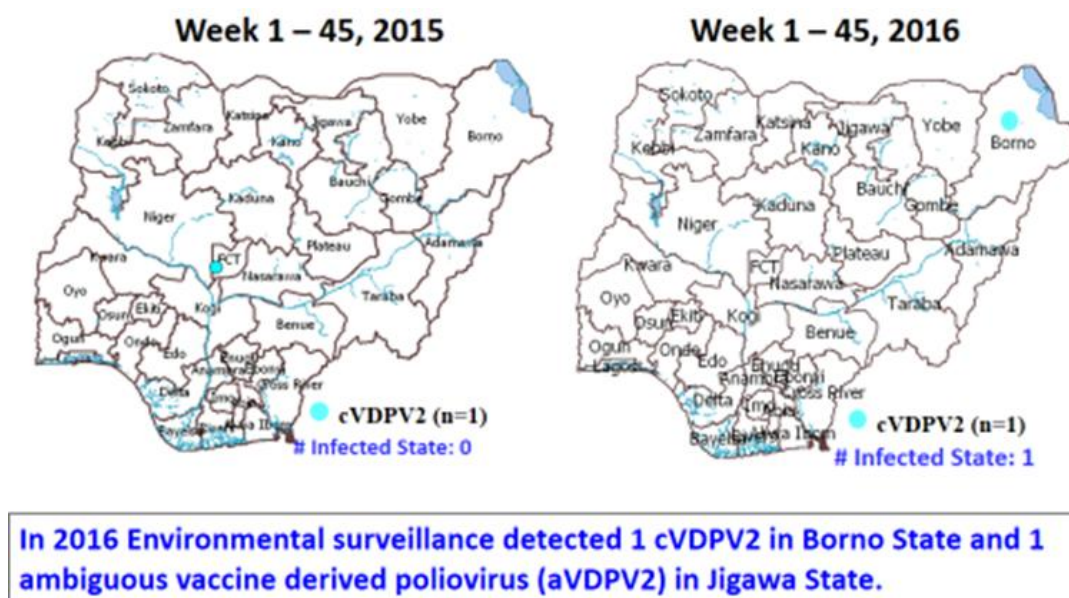
L+E+C = Lab-confirmed + EpiLink + Clinical

**Figure 8: Vaccination status of suspected / Confirmed measles cases in Nigeria, week 1 - 45, 2016 as at 18/11/2016**

### 3. Updates on poliomyelitis for week 45 as at November 11<sup>th</sup> , 2016

- 3.1. No new WPV1 isolated since the last reported confirmed case.
- 3.2. No new cVDPV2, environmental derived and Polio compatible cases identified
- 3.2.1. In the reporting week 45 (2016), 289 cases of AFP were reported from 208 LGAs in 30 States and FCT
- 3.2.2. AFP Surveillance has been enhanced and outbreak response is on-going in Borno and other high risk states
- 3.3. The 4<sup>th</sup> round of the outbreak response (NIPDs) completed in the 18 high risk states
- 3.4. Between weeks 1 & 45, 2016, four (4) confirmed Wild Polio Virus (WPV) type 1 were isolated from Jere (1), Gwoza (1) & Monguno (2) LGAs (Borno State) compared to zero case at the same period in 2015 (Figure 9).
- 3.5. Between weeks 1 & 53, 2015 no WPV was isolated compared to six (6) WPVs isolated from 2 States at the same period in 2014.
- 3.3. One (1) circulating Vaccine Derived Polio Virus type 2 (cVDPV2) was isolated in Monguno LGA (Borno State) from week 1 - 45, 2016 compared to one (1) cVDPV2 isolated in Kwali, FCT at the same period in 2015 (Figure 10).
- 3.4. Between weeks 1 & 53, 2015 one (1) cVDPV2 was isolated in Kwali, FCT while thirty (30) cVDPV2 were isolated from 5 States at the same period in 2014.
- 3.5. Six (6) confirmed WPV were isolated in 2014.

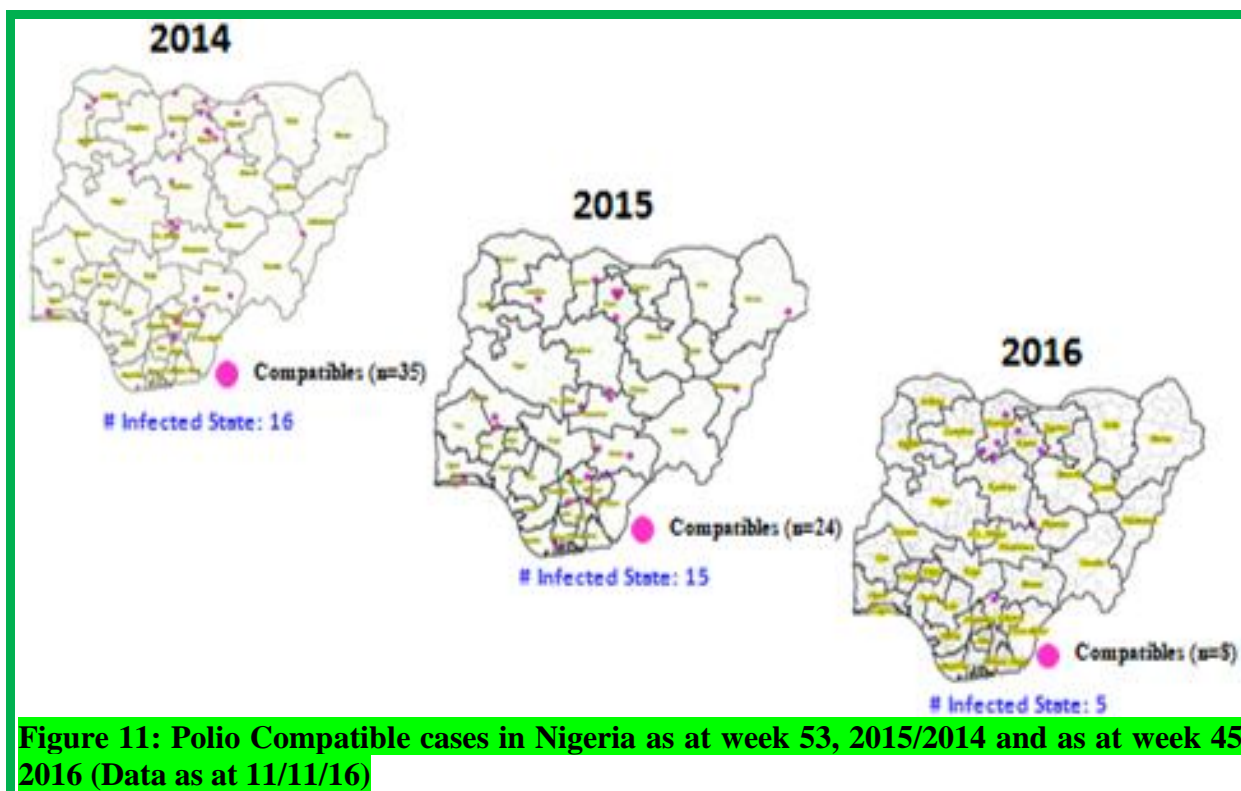




**Figure 10: cVDPV distribution in Nigeria for 2015 & 2016 (Data as at 11/11/16)**

- 3.6 In response to the isolation of WPV1 in the Country, an outbreak response plan was developed for supplemental immunizations (House to house, Hit and run, and Health camps) with bOPV in high risk states (Figure 12)
- 3.7 The first outbreak response (OBR) was conducted in 5 States in the North east (Borno, Yobe, Adamawa, Gombe and Taraba) from the 27<sup>th</sup> – 30<sup>th</sup> August 2016, while the second and third OBR were conducted in 18 States (11 high risk states plus Taraba, Adamawa, Gombe, Plateau, Nasarawa, Benue and the FCT from the 17<sup>th</sup> – 20<sup>th</sup> September 2016 and 15<sup>th</sup> – 18<sup>th</sup> October 2016 respectively. The 4<sup>th</sup> outbreak response scheduled from the 12<sup>th</sup> – 15 November, 2016 have also been completed in 18 high risk states
- 3.8 From January – May, 2016 (4) Supplemental Immunization Activities (SIAs) for Oral Polio Vaccine (OPV) were conducted across the country using tOPV .
- 3.9 The SIAs were strengthened with the following events:
  - 3.9.1 Immunization for all vaccine-preventable diseases in some selected wards/LGAs.
  - 3.9.2 Use of health camp facilities.
  - 3.9.3 Field supportive supervision and monitoring.
  - 3.9.4 Improved Enhanced Independent Monitoring (EIM) and Lots Quality Assessments (LQAs) in all Polio-high risk States.
  - 3.9.5 High level of accountability framework





## Planned Response Timelines

Outbreak Response Round	Scope	Date	Type of Antigen	Status
Immediate	Borno State (Gwoza, Jere, MMC, Bama and 1 ward in Mafa LGAs)	15 <sup>th</sup> – 18 <sup>th</sup> August 2016	bOPV2	Done
1	Borno, Yobe, Adamawa, Gombe, Taraba	27 <sup>th</sup> – 30 <sup>th</sup> August 2016	bOPV2	Done
2	11 HR States + Adamawa, Gombe, Taraba, Nasarawa, Benue, Plateau, and FCT	17 <sup>th</sup> – 20 <sup>th</sup> September 2016	bOPV2 (+IPV in Borno)	Done
3	11 HR States + Adamawa, Gombe, Taraba, Nasarawa, Benue, Plateau, and FCT	15 <sup>th</sup> – 18 <sup>th</sup> October 2016	bOPV2	Done
4	18 HR States in the North + FCT	12 <sup>th</sup> – 15 <sup>th</sup> November 2016	bOPV2	Done
5	Tentative	3 <sup>rd</sup> – 6 <sup>th</sup> December 2016	bOPV2	Tentative

11/23/2016

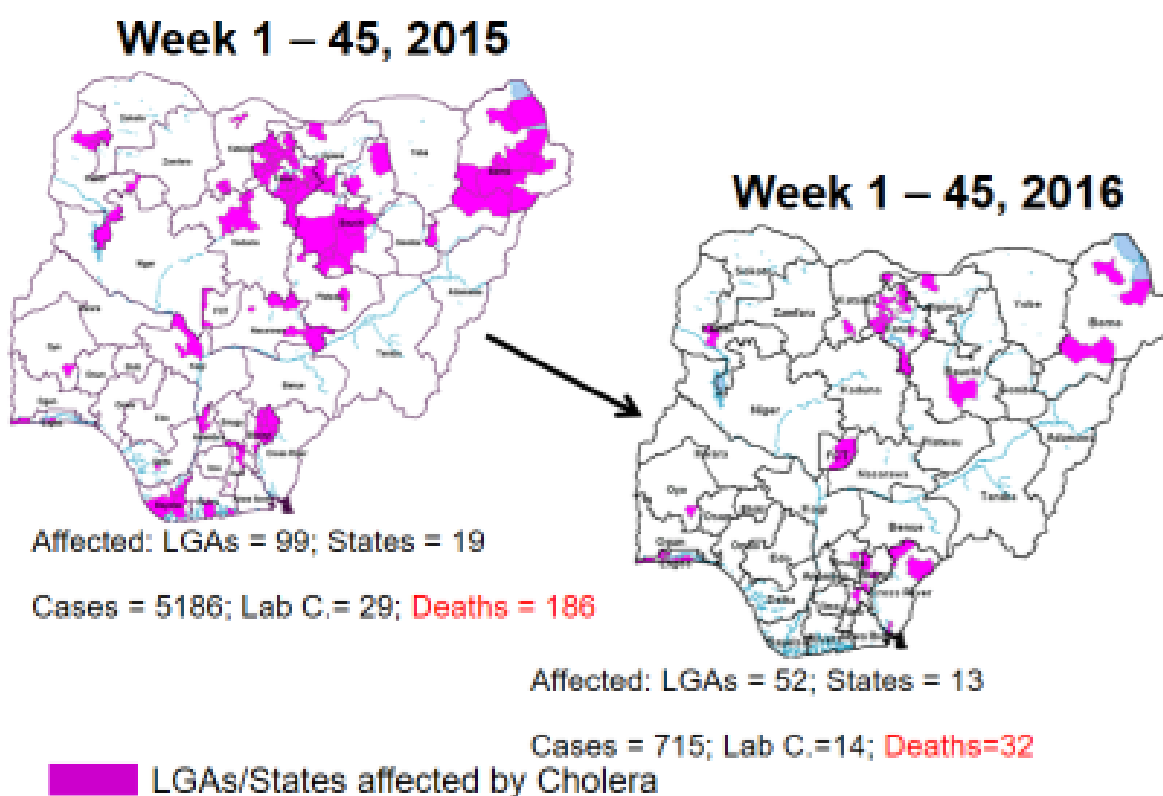
NIGERIA CENTRE FOR DISEASE  
CONTROL

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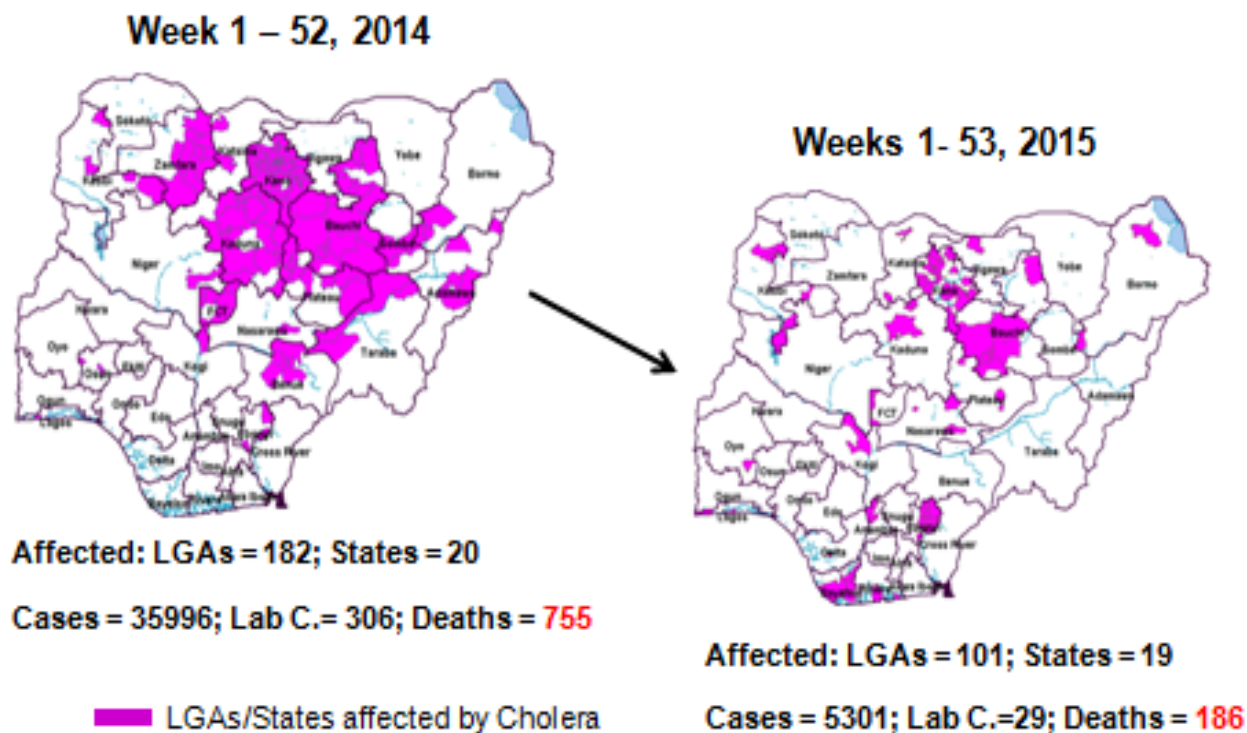
**Figure 12: Polio Outbreak Response Timelines in Nigeria: August-December 2016**

#### 4 Update on suspected Cholera for week 45 as at 18<sup>th</sup> November, 2016

- 4.1 There was no reported case of Cholera in the reporting week 45 (2016), compared with 2 cases from 2 LGAs (Kano State) at the same period in 2015 (Figure 13).
- 4.2 Between weeks 1 and 45 (2016), 715 suspected cholera cases, 14 Lab confirmed and 32 deaths (CFR, 4.48%) from 52 LGAs (13 States) were reported compared with 5186 cases with 29 lab-confirmed and 186 deaths (CFR, 3.59%) from 99 LGAs (19 States) at the same period in 2015 (Figure 13)
- 4.3 Between weeks 1 and 53 (2015), 5301 suspected cholera cases with 29 lab-confirmed and 186 deaths (CFR, 3.51%) from 101 LGAs (18 States and FCT) were reported compared with 35,996 cases with 306 lab confirmed and 755 deaths (CFR, 2.10%) from 182 LGAs (19 States and FCT) at the same period in 2014 (Figure 14).
- 4.4 States are enjoined to intensify surveillance.



**Figure 13: Status of LGAs/States that reported Cholera cases in week 1- 45, 2015 & 2016**



**Figure 14: Status of LGAs/States that reported Cholera cases in week 1- 53, 2014 & 2015**

## 5. Update on cerebrospinal meningitis (CSM) for week 45 as at 18<sup>th</sup> November, 2016

- 5.1. In the reporting week 45 (2016), 10 suspected cerebrospinal meningitis (CSM) cases were reported from 4 LGAs (4 States) compared with 3 cases from 3 LGAs (2 States) at the same period in 2015.
- 5.2. Between weeks 1 & 45 (2016), 783 suspected CSM cases with 39 Lab. confirmed and 31 deaths (CFR, 3.96%) were recorded from 148 LGAs (31 States) compared with 2676 suspected cases with 43 Lab. Confirmed and 130 deaths (CFR, 4.86%) from 163 LGAs (28 States) at the same period in 2015 (Figure 15).
- 5.3. Between weeks 1 & 53, 2015, 2711 suspected CSM cases with 43 lab-confirmed and 131 deaths (CFR, 4.83%) were recorded from 170 LGAs (28 States and FCT) compared with 1175 suspected cases and 81 deaths (CFR, 6.89%) from 125 LGAs (26 States and FCT) at the same period in 2014 (Figure 16)
- 5.4. Timeliness/completeness of CSM case-reporting from States to National Level (2016 versus 2015): on the average, 85.9% of the 26 endemic states sent CSM reports timely while 99.4% were complete in week 1 – 45, 2016 as against 82.1% timeliness and 99.1% completeness recorded within the same period in 2015.
- 5.5. Intensive Surveillance is on-going in high risk States.

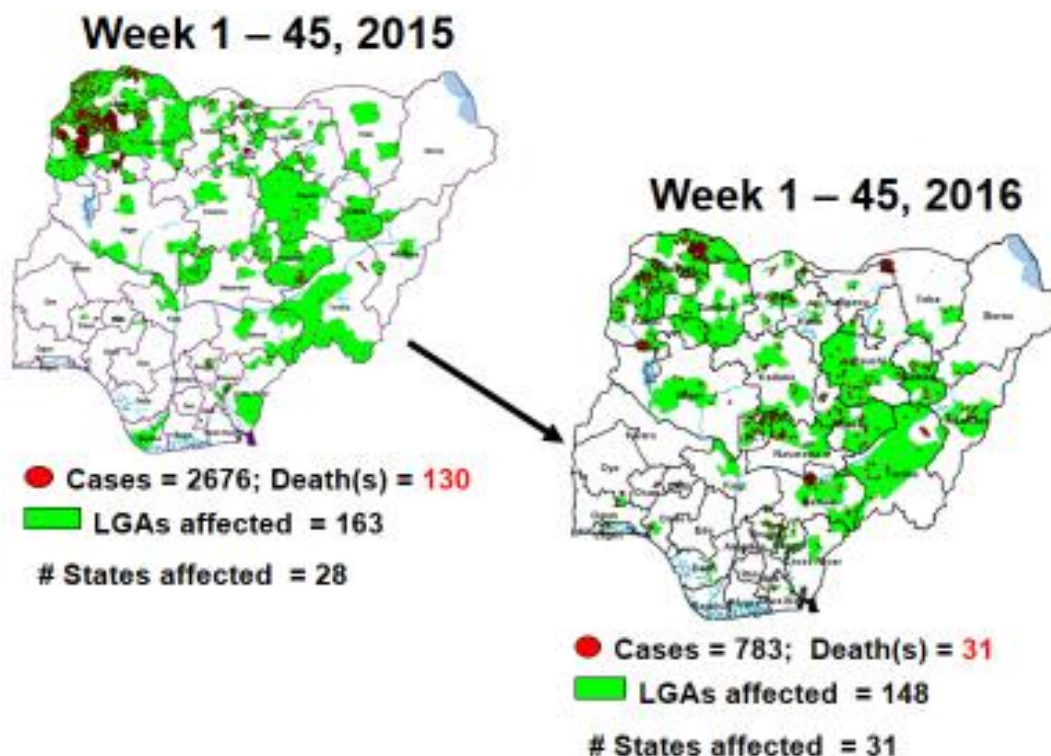
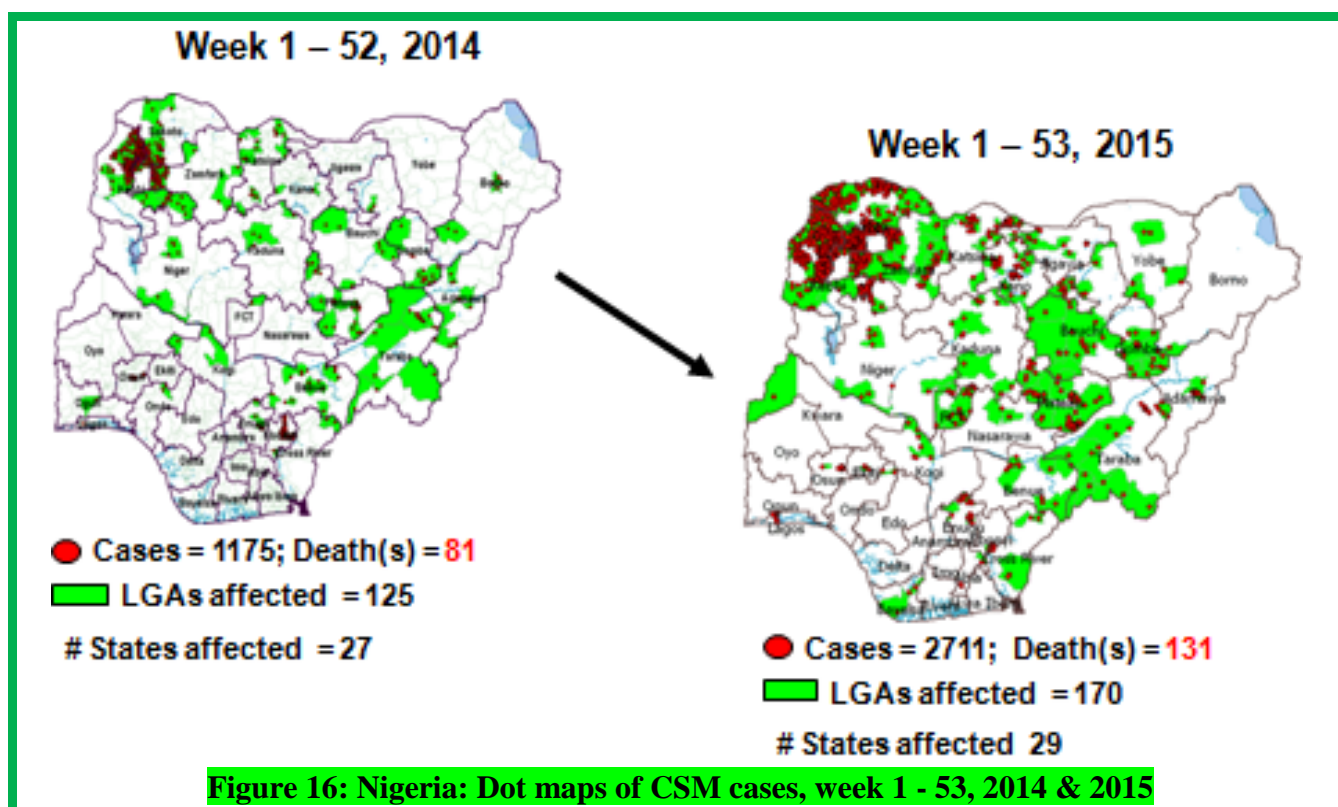


Figure 15: Map of Nigeria showing areas affected by CSM, week 1 – 45, 2015 & 2016



**6. Update on Guinea worm disease: as at 30<sup>th</sup> September, 2016**

- 6.1. As at 30<sup>th</sup> September, 2016, 185 GWD rumour reports were received from 71 LGAs in 16 States. All (100%) of the rumours were investigated within 24 hours and none of these rumours were confirmed to be GWD case.
- 6.2. In 2015, a total of 384 GWD rumour reports were received and investigated from 134 LGAs (24 States), of which 373 (97%) were investigated within 24 hours. None of these rumours were confirmed to be GWD case.
- 6.3. Nigeria has celebrated 7 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 NIGEP NC/Director: Mrs. I, Anagbogu: +2348034085607, [ifechuba@yahoo.co.uk](mailto:ifechuba@yahoo.co.uk))*



**Table 2: Status of Reporting by the State Epidemiologists, Nigeria, Weeks 1 - 45, 2016, as at 18<sup>th</sup> November, 2016**

[illegible]

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## Distribution of the Weekly Epidemiology Report (WER)

The FMOH is currently circulating the WER to many institutions and organizations (private and public) including individual health professionals

The WER is also available on the FMOH/NCDC website: [www.fmh.gov.ng](http://www.fmh.gov.ng) & [www.ncdc.gov.ng](http://www.ncdc.gov.ng)

Federal Ministry of Health - Nigeria

Updates on Epidemics, Week 1- 45 ( 7<sup>th</sup> – 13<sup>th</sup> November, 2016) as at 18<sup>th</sup> November, 2016

SNO	State	StatePop2016	Status of Report	AFP					CSM					Cholera					Measles					Lassa Fever					Guineaworm Disease					HPAI					Other Diseases/Events					Remarks
				New		Cumulative Data Wk01-45			New		Cumulative Data Wk01-45			New		Cumulative Data Wk01-45			New		Cumulative Data Wk01-45			New		Cumulative Data Wk01-45			New		Cumulative Data Wk01-45			New		Cumulative Data Wk01-45								
				Cases	Lab/Cld	Deaths	Cases	Lab/Cld	Deaths	CFR	Cases	Lab/Cld	Deaths	Cases	Lab/Cld	Deaths	CFR	Cases	Lab/Cld	Deaths	Cases	Lab/Cld	Deaths	CFR	Cases	Lab/Cld	Deaths	Cases	Lab/Cld	Deaths	CFR	Cases	Lab/Cld	Deaths	Cases	Lab/Cld	Deaths	CFR						
1	Abia	3,699,169	N			153					1					19				290																								
2	Adamawa	4,216,506	L	11		335					18						8		357	2	0.56			8		1	12.50				4													
3	Akwa Ibom	5,476,644	T	5		226					3		1	33.33			1		148				3	1	1	33.33																		
4	Anambra	5,512,118	T	1		232					8	1					8		507				1	1	1	100.00																		
5	Bauchi	6,533,157	T	15		458					35	4	4	11.43		1	1	4		1390		2	1	35	6	8	22.86		2															
6	Bayelsa	2,287,043	T	2		124									2		2		105										1															
7	Benue	5,670,311	T	10		408					52						1		177				3																					
8	Borno	5,798,337	T	9		300					1		1	100.00		71		6		771	1	0.13						1																
9	Cross River	3,844,999	T			108					16				4				162	2	2	1.23																						
10	Delta	5,615,794	N			47					1								225				1	1	1	100.00																		
11	Ebonyi	2,884,778	T	10		104					15				3		5		130				12	3	4	33.33			1		18	5	27.78											
12	Edo	4,200,832	T	3		200										5		81		1		353	23	9	2.55																			
13	Ekiti	3,235,426	T	5		247					4					18		523				10	1																					
14	Enugu	4,377,536	L	6		216					9				2		5		196																									
15	FCT	3,419,323	T	16		379					32		1	3.13		47	9	18.15	3		212	1	0.47		22	2	2	9.09																
16	Gombe	3,225,382	T	9		386					18								322				13	1				1																
17	Imo	5,391,760	T	8		233									2				277				1																					
18	Jigawa	5,787,728	T	13		706					6				19				1491	40	2.68																							
19	Kaduna	8,152,952	T	11		605		1			15		3	20.00			17		607				24	4	4	16.67				3														
20	Kano	12,983,043	T	35		1440					10		1	10.00		227	3	1.32	2		2665	18	0.68		20	1	9	45.00		128	1124	2	0.18											
21	Katsina	7,784,740	L	17		505					10		3	30.00	1		1		2356	4	0.17		12		1	8.33		135	672	15	17	2.53		10										
22	Kebbi	4,384,887	L	14		918					82	17	9	10.98		8	1	12.50	1		626			6					1															
23	Kogi	4,406,012	T	5		209					1		1	100.00					218		1		14	2	2	14.29			10	8	80.00													
24	Kwara	3,186,545	L			82													79																									
25	Lagos	12,350,714	T	4		274		4			29				293	11	16	5.46	8		313			8	3	1	12.50																	
26	Nasarawa	2,504,086	T	9		190					32						5		166				50	11	14	28.57			14						52									
27	Niger	5,518,612	T	12		143					12								383				60		19	31.67			6															
28	Ogun	5,158,109	N			233													173				10	2																				
29	Ondo	4,624,449	T			295					1								254				87	13	12	13.79																		
30	Osun	4,691,088	T	5		125					4					9			265				1	1	1	100.00																		
31	Oyo	7,811,611	T	4		169					21				20	2	3	15.00	12		689			11																				
32	Plateau	4,148,116	T	9		375		1			33								216				37	8	6	16.22																		
33	Rivers	7,244,154	T	5		323										5			223				17	5	5	29.41																		
34	Sokoto	4,988,458	T	12		430					179	15	5	2.79			12		3335		11	0.33		1																				
35	Taraba	3,035,153	T	5		319					35								144				46		5	10.87			4		1	25.00		22	3	13.64								
36	Yobe	3,274,833	T	8		330		4			83						11		3342		19	0.57		2		1	50.00																	
37	Zamfara	4,466,775	T	11		236					17	2	2	11.76					575		2	0.35																						
Total				191,843,148	297=78%	289		10		783	39	31	3.96	1		715	14	32	4.48	157		2397	2	100	0.42	4		1	868	89	107	12.33		285		2266	15	33	1.46		128	3	2.34	

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

Source: Epid Division, Public Health Dept, FMOH

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