

Weekly Epidemiology Report



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

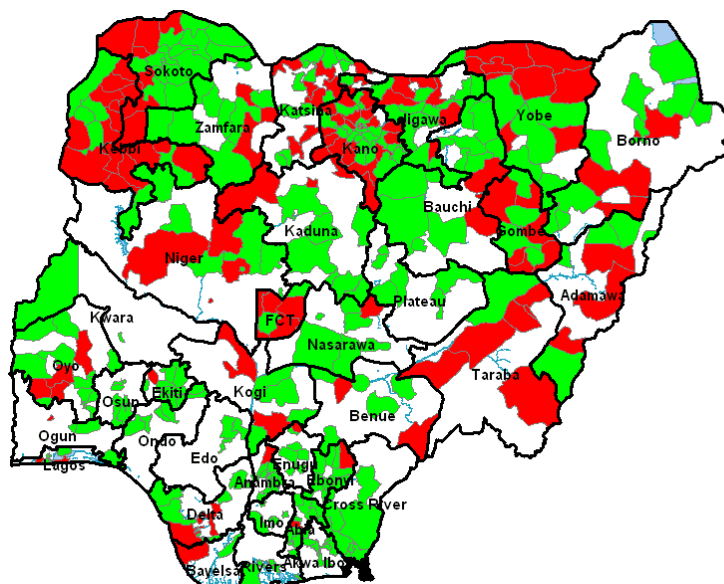
Issue: Volume 6 No. 40

14th October, 2016

Summary Table (IDSR Weekly Report as at 07/10/2016)

Disease	Variables	Week 39	Week 40		Cumulative Weeks	
		2016	2016	2015	01 - 40, 2016	01 - 40, 2015
AFP	Cases	198	199	109	10,619	6,459
	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	3	13	65	554	4542
	Deaths	0	4	2	25	176
	CFR	0.00%	30.77%	3.07%	4.51%	3.87%
Lassa Fever	Cases	0	3	1	841	228
	Deaths	0	0	0	98	6
	CFR	0.00%	0.00%	0.00%	11.65%	2.63%
CSM	Cases	15	11	1	719	2,656
	Deaths	1	0	0	30	130
	CFR	6.67%	0.00%	0.00%	4.17%	4.89%
Measles	Cases	131	139	221	22,970	20,250
	Deaths	0	0	0	100	97
	CFR	0.00%	0.00%	0.00%	0.44%	0.48%
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), Wks01-40, 2016



Suspected Outbreaks (OBs)=501, Cases=13129
Affected: #States=36 & FCT, #LGAs=394

Lab-confirmed Outbreaks (OBs)=135, Cases=771
Affected: #States=28, #LGAs=126.
(Generated from Measles-Lab Database)

Source: Measles Case-Based database as at 14-Oct-2016 (latest Onset: 08-Oct-2016)

Weekly updates on epidemics in Nigeria: as at 14th October, 2016

1. **Lassa fever update for week 40 as at 14th October, 2016; (Please note that the data reflects the routine reports i.e. all suspected cases including the laboratory positive and negative cases)**

- 1.1. Three suspected cases of Lassa fever were from 3 LGAs (3 States; Katsina -1, Nassarawa – 1 & Oyo -1) reported in week 40, 2016 compared with one case from Jos North LGA (Plateau State) at the same period in 2015 (Figure 1).
- 1.2. The three (3) suspected cases were negative for Lassa and other VHF.
- 1.3. Between weeks 1 and 40 (2016), 841 suspected Lassa fever cases with 83 lab-confirmed and 98 deaths (CFR, 11.65%) from 137 LGAs (28 States) were reported compared with 228 suspected cases with 11 lab-confirmed and six (6) deaths (CFR, 2.63%) from 21 LGAs (11 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 ongoing in affected states. States are enjoined to intensify surveillance.
- 1.5.1. Weekly Lassa fever working group meeting ongoing at the NCDC to assess the current Lassa fever situation in the country.
- 1.5.2. Ribavirin Injectable & Tablets with Personal Protective Equipment (PPE) and other consumables distributed to affected States.
- 1.5.3. The Emergency Operational Centre (EOC) in the Nigeria Centre for Disease Control and Prevention (NCDC)/FMOH was activated and technical supports were provided to affected states during the January – April 2016 outbreak.

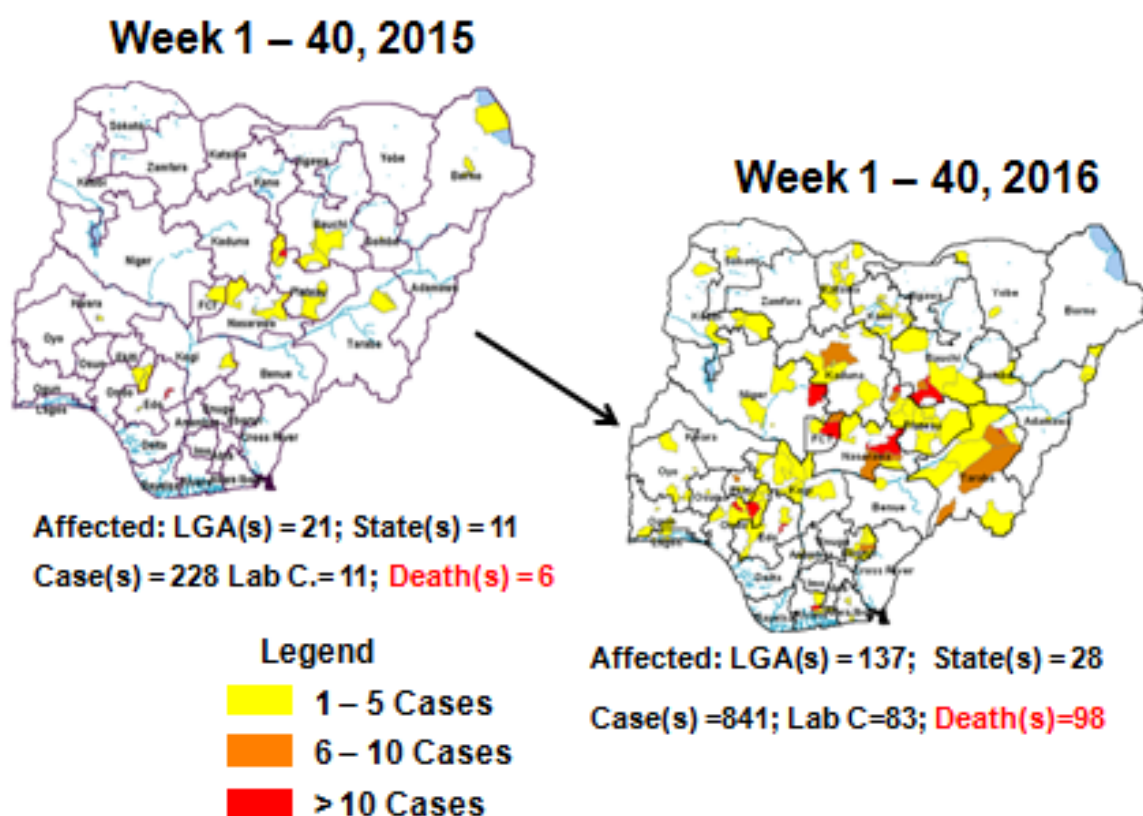


Figure 1: Map of Nigeria showing areas affected by Lassa fever, week 1- 40, 2015 & 2016

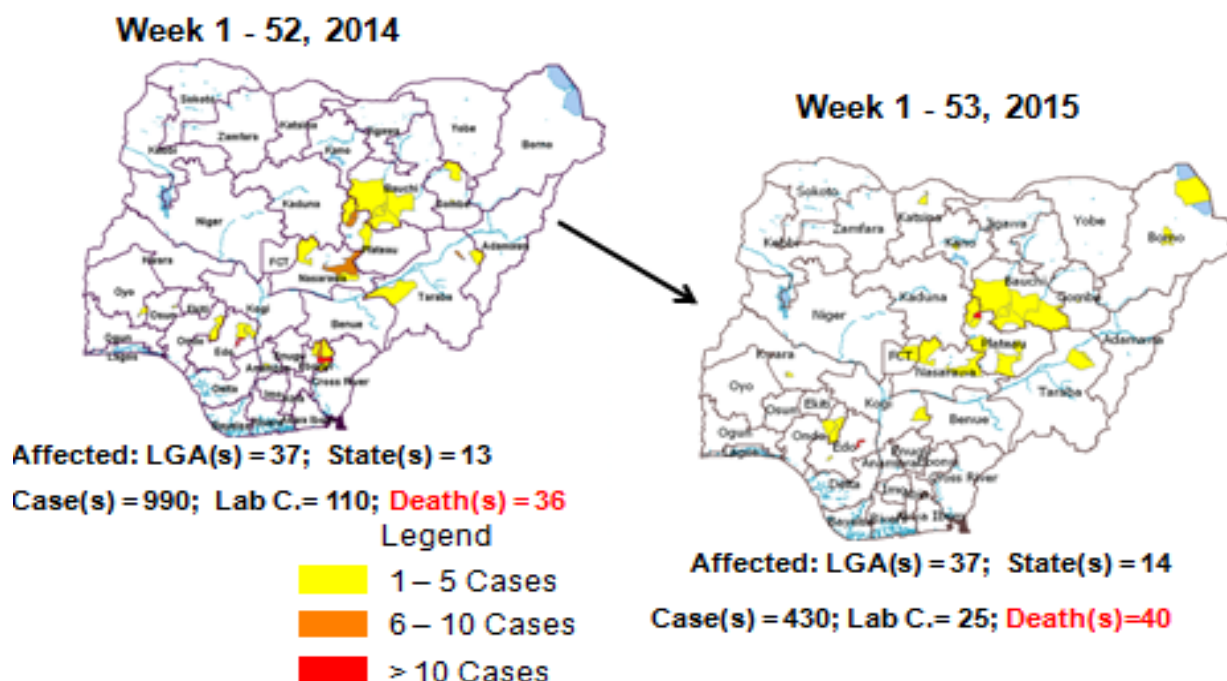


Figure 2: Map of Nigeria showing areas affected by Lassa fever, week 1 - 53, 2014 & 2015

2. Update on suspected Measles for week 40 as at 14th October, 2016

- 2.1. In the reporting week 40 (2016), one hundred & thirty-nine (139) suspected cases of Measles were recorded from 22 States compared with 221 suspected measles cases from 23 States at the same period in 2015.
- 2.2. So far, 22,970 suspected Measles cases and 100 deaths (CFR, 0.44%) have been reported in 2016 from 36 states & FCT (Figure 3 & 4) compared with 20,250 suspected cases and 97 deaths (CFR, 0.48%) 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 1-40, (2016) 10,723 confirmed Measles cases were recorded compared to 10,370 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 68.2% 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 21st – 25th November, 2015 and 28th January – 1st February, 2016 respectively.

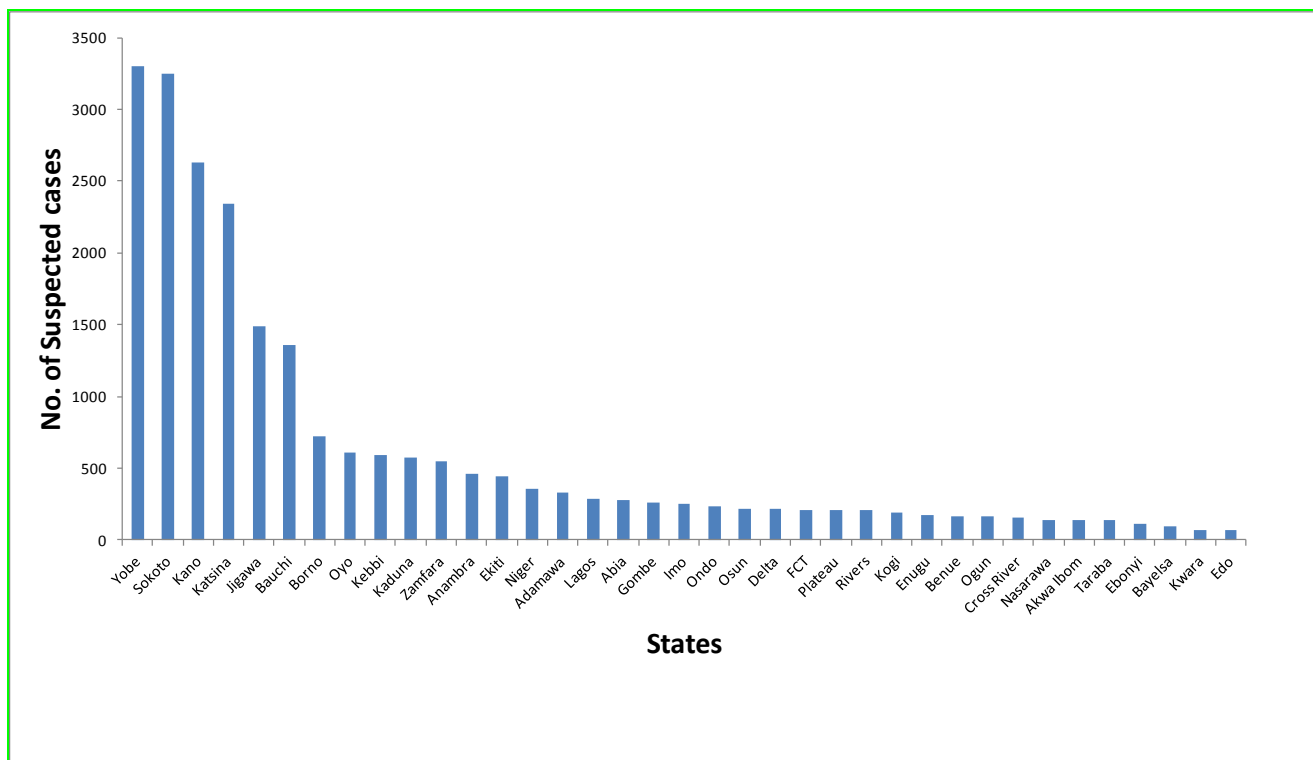
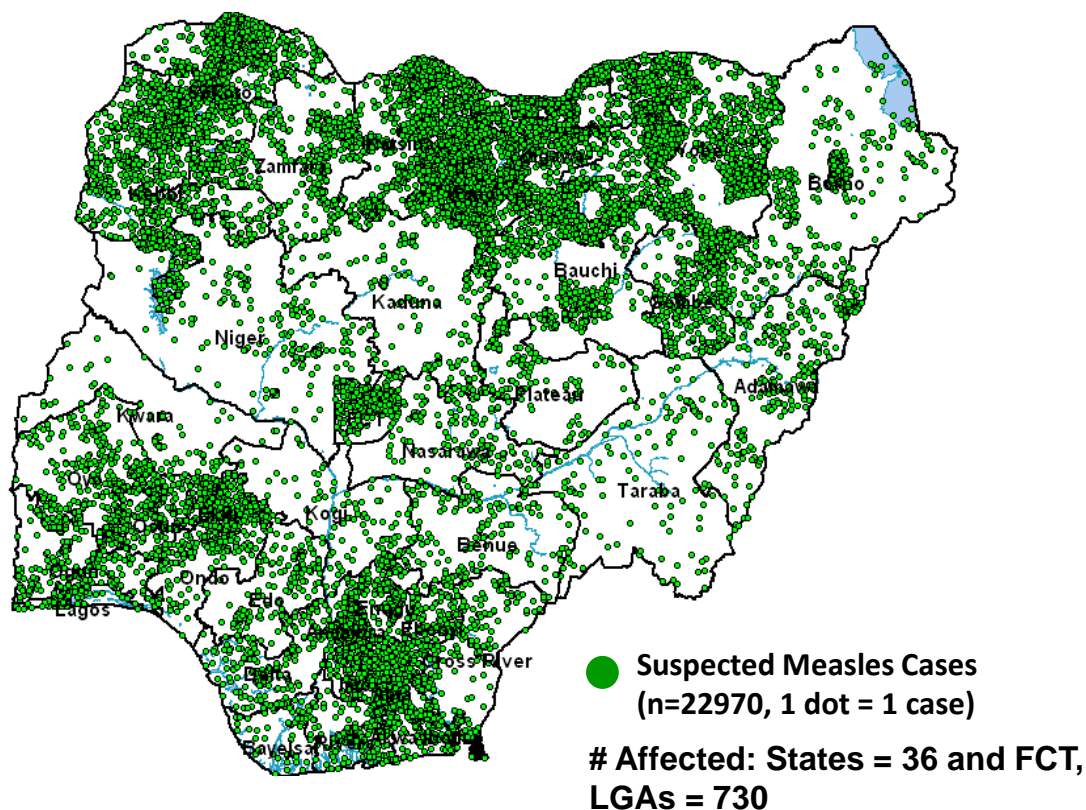


Figure 3: Suspected measles cases by States, week 40, 2016 as at 14th October, 2016

Distribution of Suspected Measles Cases, Wks01-40 2016

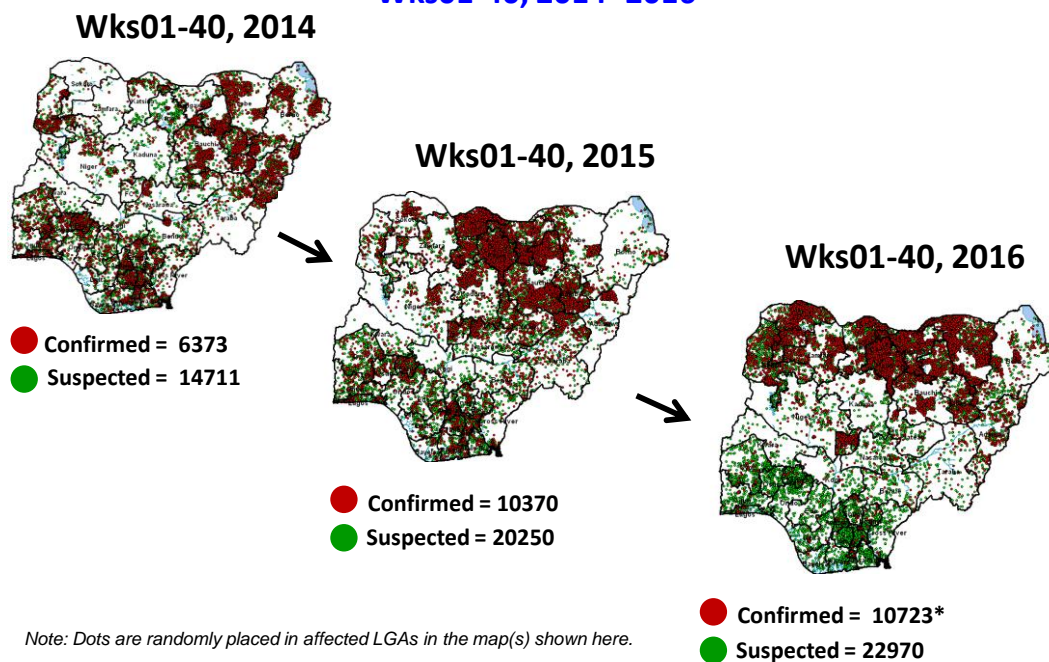


Note: Dots (cases) are randomly placed in affected LGAs in the map(s) shown here.

Source: Measles Case-Based database as at 14-Oct-2016

Figure 4: Nigeria: Distribution of suspected measles cases, week 1 - 40, 2016 as at 14/10/16

**Suspected and Confirmed (Lab + Epi Link + Clinical) Measles Cases,
Wks01-40, 2014 -2016**



Source: Measles Case-Based database as at 14-Oct-2016 (Latest Onset= 08-Oct-2016)

Figure 5: Nigeria: Suspected & Confirmed(Lab+Epi Link + Clinical) Measles cases, WK 1 - 40, 2014, 2015 & 2016

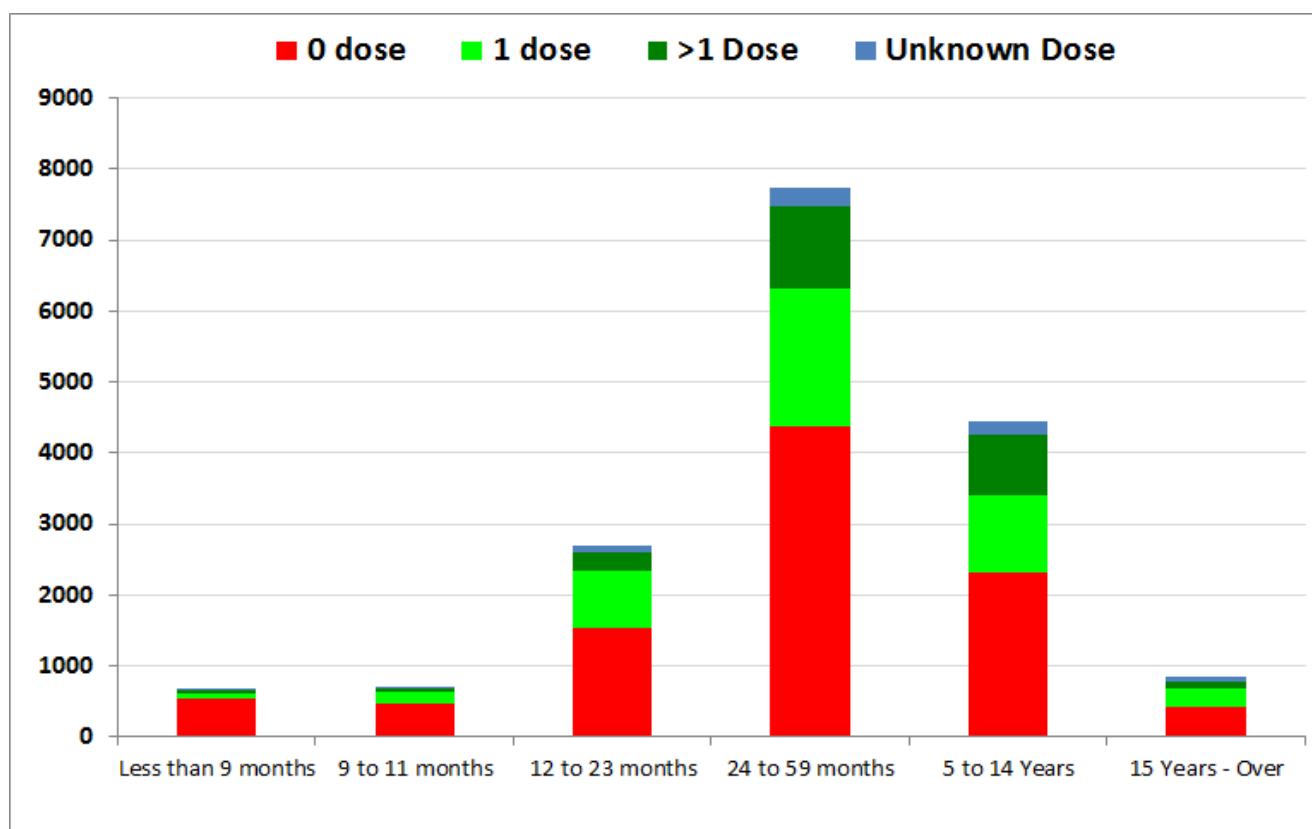


Figure 6: Age and vaccination status of suspected measles cases in Nigeria, week 1 - 40, 2016 as at October 14th, 2016

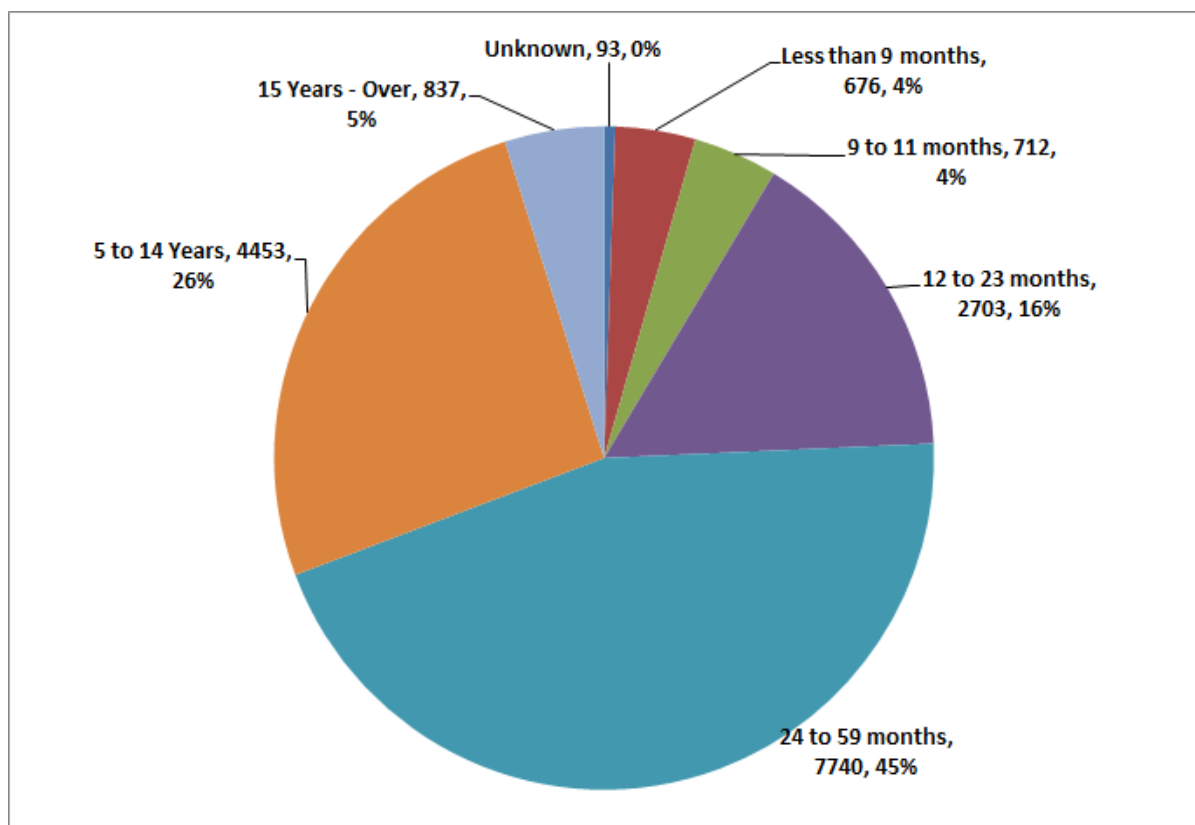
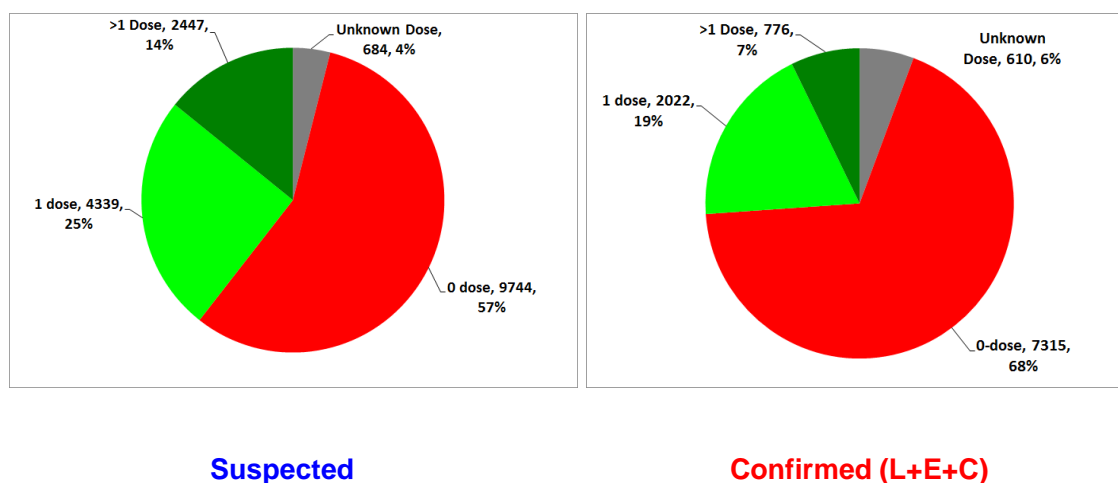


Figure 7: Breakdown of suspected measles cases by age group in Nigeria, week 1 -40, 2016 as at 14/10/16

Vaccination Status of Suspected/ Confirmed(L+E+C) Measles Cases, Weeks01-40 2016

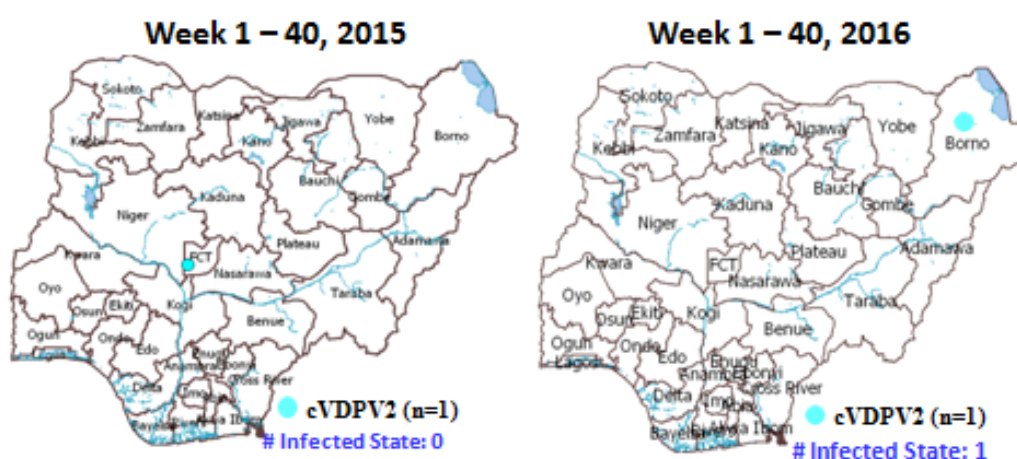
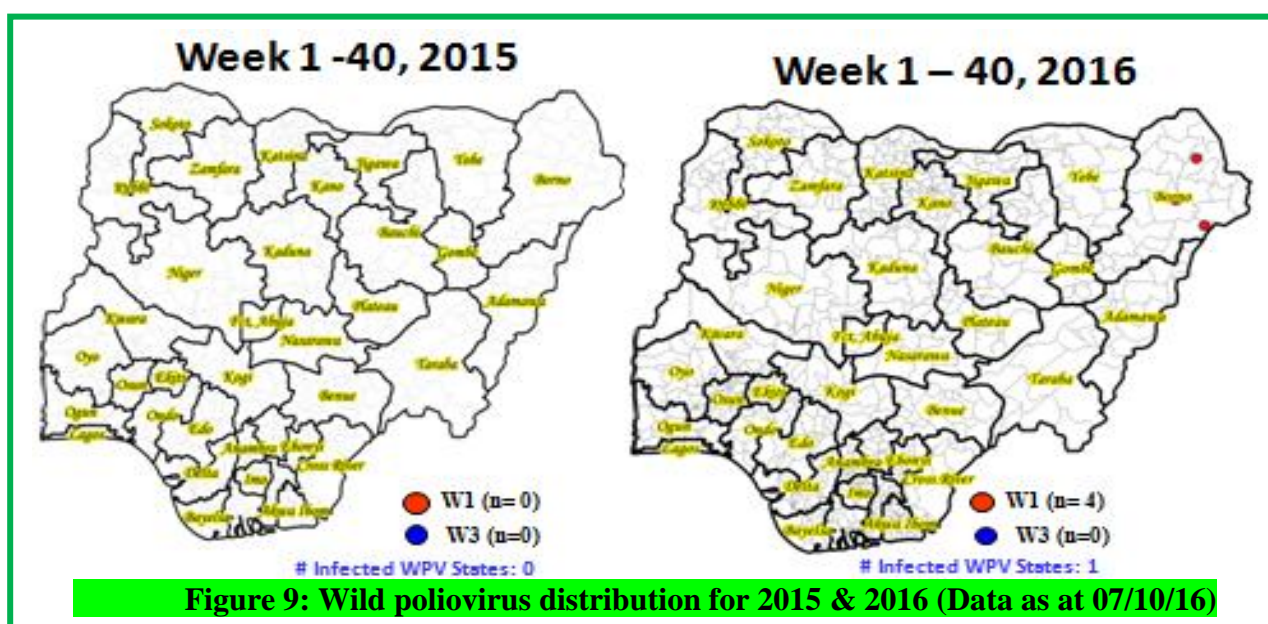


L+E+C = Lab-confirmed + EpiLink + Clinical

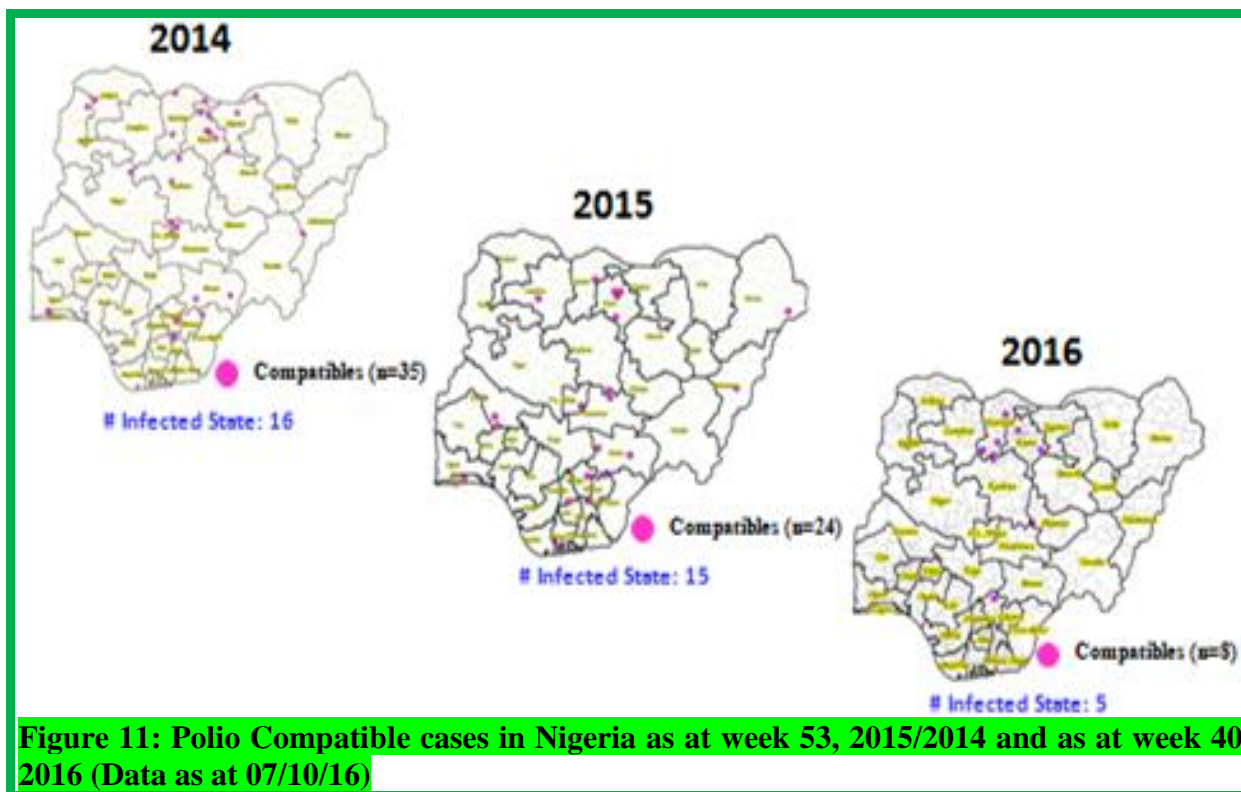
Figure 9: Vaccination status of suspected / Confirmed measles cases in Nigeria, week 1 -40, 2016 as at 14/10/2016

3. Updates on poliomyelitis for week 40 as at October 7th , 2016

- 3.1. No Wild Polio Virus (WPV) was isolated in both weeks 40 of 2016 & 2015..
- 3.2. Between weeks 1 & 40, 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).
- 3.3. 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 - 40, 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.



- 3.6 In response to the isolation of WPV1 in the Country, the Federal Government had immediately made a public notification and developed an outbreak response plan on the 10th August, 2016 with activities commencing from 15th August – 22nd November 2016. (Figure 12)
- 3.7 Investigation was conducted in the 3 affected LGAs (Gwoza, Jere and Monguno LGAs)
- 3.8 First and second outbreak response supplemental immunizations (House to house, Hit and run, and Health camps) with bOPV were conducted in 5 States (Borno, Yobe, Adamawa, Gombe and Taraba) from the 27th – 30th August 2016 and 18 States (11 high risk states plus Taraba, Adamawa, Gombe, Plateau, Nasarawa, Benue and the FCT from the 17th – 20th September 2016 respectively
- 3.9 From January – May, 2016 (4) Supplemental Immunization Activities (SIAs) for Oral Polio Vaccine (OPV) had been conducted across the country using tOPV .
- 3.10 The SIAs (SNIPDs) were strengthened with the following events:
 - 3.10.1 Immunization for all vaccine-preventable diseases in some selected wards/LGAs.
 - 3.10.2 Use of health camp facilities.
 - 3.10.3 Field supportive supervision and monitoring.
 - 3.10.4 Improved Enhanced Independent Monitoring (EIM) and Lots Quality Assessments (LQAs) in all Polio-high risk States.
 - 3.10.5 High level of accountability framework
- 3.11 NSTOP in collaboration with FMOH conducted 2 training sessions: "Reaching every child with OPV especially in underserved population" for specialized health workers and "assessment of routine immunization activities in the LGAs" for NSTOP consultants.



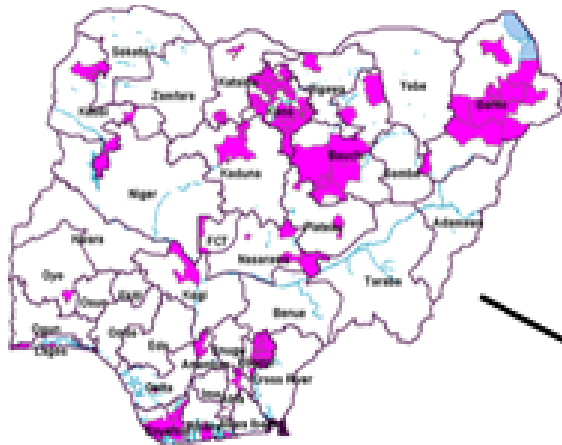
Outbreak Response Round	Scope	Date	Type of Antigen	Status
Immediate	Borno State (Gwoza, Jere, MMC, Bama and 1 ward in Mafa LGAs)	15 th – 18 th August 2016	bOPV2	Done
1	Borno, Yobe, Adamawa, Gombe, Taraba	27 th – 30 th August 2016	bOPV2	Done
2	11 HR States + Adamawa, Gombe, Taraba, Nasarawa, Benue, Plateau, and FCT	17 th – 20 th September 2016	bOPV2 (+IPV in Borno)	Done
3	11 HR States + Adamawa, Gombe, Taraba, Nasarawa, Benue, Plateau, and FCT	15 th – 18 th October 2016	bOPV2	Not Due
4	Tentative	12 th – 15 th November 2016	bOPV2	Tentative
5	Tentative	3 rd – 6 th December 2016	bOPV2	Tentative

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

4 Update on suspected Cholera for week 40 as at 14th October, 2016

- 4.1 In reporting week 40 (2016), 13 suspected cases of cholera with 1 Lab. Confirmed and 4 deaths (CFR, 30.77%) were recorded from 2 LGAs (2 States) compared with 65 cases with 4 Lab. Confirmed and 2 deaths (CFR, 3.07) from 3 LGAs (3 States) at the same period in 2015 (Figure 13).
- 4.2 Between weeks 1 and 40 (2016), 554 suspected cholera cases, 15 Lab confirmed and 25 deaths (CFR, 4.51%) from 48 LGAs (12 States) were reported compared with 4542 cases with 23 lab-confirmed and 176 deaths (CFR, 3.87%) from 91 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.

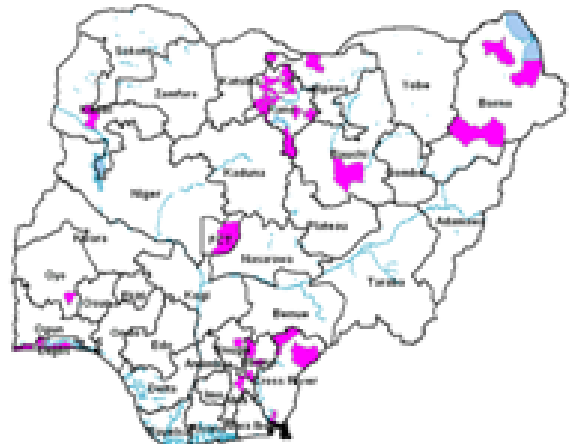
Week 1 – 40, 2015



Affected: LGAs = 91; States = 19

Cases = 4542; Lab C.= 23; Deaths = 176

Week 1 - 40, 2016



Affected: LGAs = 48; States = 12

Cases = 554; Lab C.=15; Deaths=25

LGAs/States affected by Cholera

Figure 13: Status of LGAs/States that reported Cholera cases in week 1- 40, 2015 & 2016

Week 1 – 52, 2014



Affected: LGAs = 182; States = 20

Cases = 35996; Lab C.= 306; Deaths = 755

Weeks 1- 53, 2015



Affected: LGAs = 101; States = 19

Cases = 5301; Lab C.=29; Deaths = 186

LGAs/States affected by Cholera

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

5. Update on cerebrospinal meningitis (CSM) for week 40 as at 14th October, 2016

- 5.1. In the reporting week 40 (2016), 11 suspected cerebrospinal meningitis (CSM) cases were reported from 7 LGAs (5 States) compared with 1 case from Akko LGA (Gombe State) at the same period in 2015.
- 5.2. Between weeks 1 & 40 (2016), 719 suspected CSM cases with 39 Lab. confirmed and 30 deaths (CFR, 4.17%) were recorded from 140 LGAs (29 States) compared with 2656 suspected cases with 43 Lab. Confirmed and 130 deaths (CFR, 4.89%) from 158 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, 86.0% of the 26 endemic states sent CSM reports timely while 99.6% were complete in week 1 – 40, 2016 as against 81.3% timeliness and 98.2% completeness recorded within the same period in 2015.
- 5.5. Intensive Surveillance is on-going in high risk States.

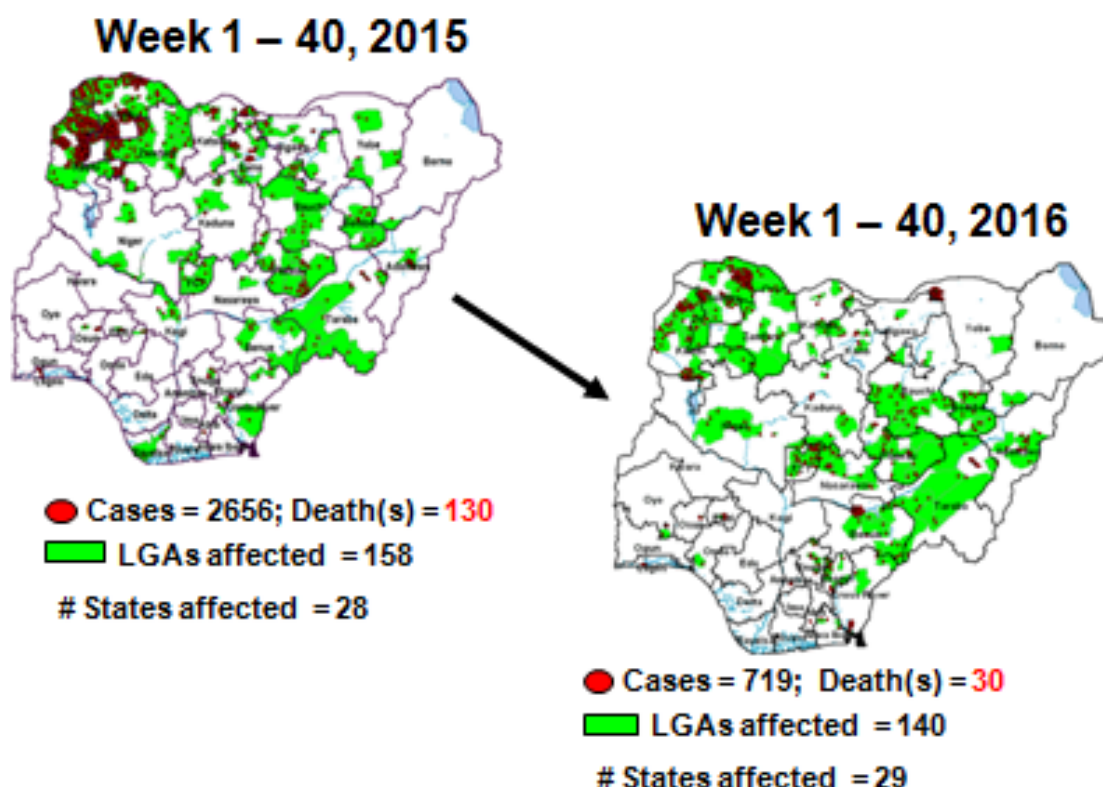
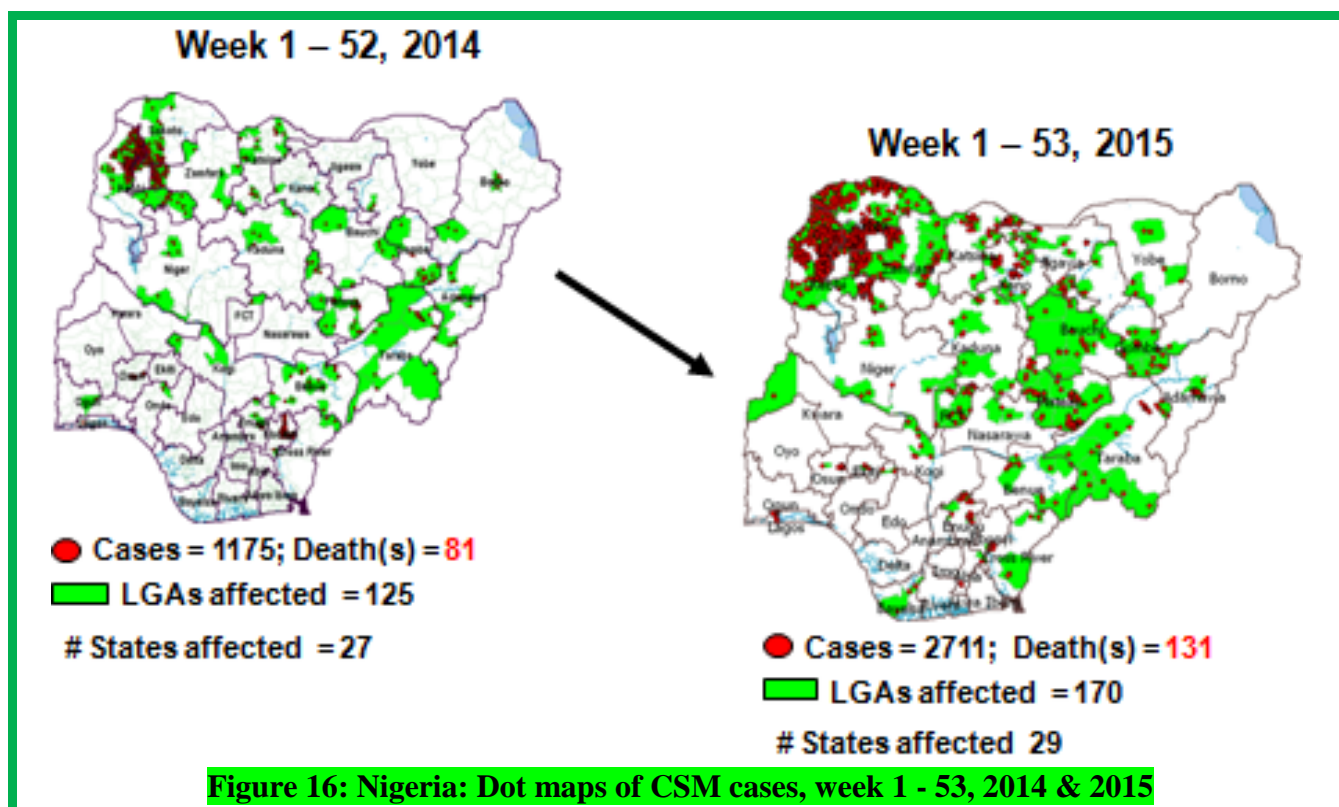


Figure 15: Map of Nigeria showing areas affected by CSM, week 1 – 40, 2015 & 2016



6. Update on Guinea worm disease: as at 30th September, 2016

- 6.1. As at 30th 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)

Table 2: Status of Reporting by the State Epidemiologists, Nigeria, Weeks 1 - 40, 2016, as at 14th October, 2016

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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 & www.ncdc.gov.ng

Federal Ministry of Health - Nigeria

Updates on Epidemics, Week 1- 40 (3rd – 9th October, 2016) as at 14th October, 2016

SNO	State	StatePop2016	Status of Report	AFP				CSM				Cholera				Measles				Lassa Fever				Guineaworm Disease				HPAI				Other Diseases/Events				Remarks
				New		Cumulative Data Wk01-40		New		Cumulative Data Wk01-40		New		Cumulative Data Wk01-40		New		Cumulative Data Wk01-40		New		Cumulative Data Wk01-40		New		Cumulative Data Wk01-40		New		Cumulative Data Wk01-40		New		Cumulative Data Wk01-40		
				Cases	Lab/Cld	Deaths	CFR	Cases	Lab/Cld	Deaths	CFR	Cases	Lab/Cld	Deaths	CFR	Cases	Lab/Cld	Deaths	CFR	Cases	Lab/Cld	Deaths	CFR	Cases	Lab/Cld	Deaths	CFR	Cases	Lab/Cld	Deaths	CFR	Cases	Lab/Cld	Deaths	CFR	
1	Abia	3,689,169	N			140				1				19				282																		
2	Adamawa	4,216,506	T	5		278				16						20		334	2	0.60		8		1	12.50					3						
3	Ankwa bom	5,476,644	N			193				3		1	33.33					141				3	1	1	33.33											
4	Arambiru	5,512,118	T	4		218			1	6	1					10		460				1	1	1	100.00											
5	Bauchi	6,533,157	T	3		406				33	4	4	12.12	1	1	6		1354				31	4	5	16.13					2						
6	Bayelsa	2,267,043	T	5		112										3		97												1						
7	Benue	5,670,311	T	13		364				51						2		166				3														
8	Borno	5,799,337	N			264				1		1	100.00		71		719		1	0.14									1							
9	Cross River	3,844,999	T	2		100				16				4		1		157	2	2	1.27															
10	Delta	5,615,784	N			28												213				1	1	1	100.00											
11	Ekomji	2,864,778	L	7		84				13				3				113				12	3	4	33.33			1		17	5	29.41				
12	Edo	4,200,832	N			184												66				337	21	7	2.08											
13	Ekiti	3,235,426	T	1		221				4						13		445				10	1													
14	Enugu	4,377,536	L	4		188				9				2		3		176																		
15	FCT	3,419,323	T	12		325				30		1	3.33		47	9	19.15	1		206		1	0.49		20	2										
16	Gombe	3,225,382	T	4		350				18								260				13	1													
17	Imo	5,381,760	T	5		205										5		254																		
18	Jigawa	5,787,728	L	9		615				6				19				1486	40	2.69																
19	Kaduna	8,152,952	T	14		556				13		3	23.08			4		575				23	3	3	13.04											
20	Kano	12,983,043	T	20		1249				10		1	10.00		227	3	1.32	25		2627	18	0.69		20	1	9	45.00		236		673	1	0.15			
21	Katsina	7,784,740	T	14		438			1	10		3	30.00				2	2338	4	0.17	1	12		1	8.33									10		
22	Kebbi	4,394,887	T	10		833				82	17	9	10.98		8	1	12.50	17		591																
23	Kogi	4,406,012	T	3		180										2		187				12	2	2	16.67											
24	Kwara	3,186,545	L			71												73																		
25	Lagos	12,350,714	T	1		251				15			1	1	140	12	9	6.43	2		287				8	3	1	12.50								
26	Nasarawa	2,504,086	T	9		156			1	24								142			1	49	10	13	26.53			23		249			52			
27	Niger	5,518,612	T	1		112				12								357				60		19	31.67								44			
28	Ogun	5,158,109	L	2		223										1		162				10	2													
29	Ondo	4,624,449	T	4		281				1						3		236				86	13	12	13.95											
30	Osun	4,681,086	T			105				4								219				1	1	1	100.00											
31	Oyo	7,811,611	T	1		146				21			12	1	3	13	2	3	23.08	8																
32	Plateau	4,148,116	T	6		336				30								204				37	8	6	16.22											
33	Rivers	7,244,154	T	13		272										1		204				17	5	5	29.41											
34	Sokoto	4,988,458	T	8		360				179	15	5	2.79					3249	11	0.34		1														
35	Taraba	3,035,153	T	5		294			3	31								136				46		5	10.87				4	1	25.00		22	3	13.64	
36	Yobe	3,274,833	T	1		305			5	63						4		3298	19	0.58		2		1	50.00											
37	Zamfara	4,466,775	T	13		176				17	2	2	11.76					549	2	0.36																
Total				191,843,148	277=73%	199		11		719	38	30	4.17	13	1	4	554	15	25	4.51	139					266		1126	7	0.62		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