



Nigeria Centre for Disease Control

Protecting the health of Nigerians

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Cholera Situation Report

WEEKLY EPIDEMIOLOGICAL REPORT 24

Epidemiological week 47: (22 November to 28 November 2021)

Key Points

Table 1: Summary of current week (Epi week 47 ,2021)

Suspected Cases	Deaths (Suspected cases)	Case Fatality Ratio (%)	States Reporting Cases	LGAs Reporting cases
217	9	4.1%	9	21

Table 2: Cumulative summary from Epi week 1 - 47,2021

Suspected Cases	Deaths (Suspected cases)	Case Fatality Ratio (%)	States Reporting Cases	LGAs Reporting cases
106,348	3,579	3.4%	33	402

Week 47 Highlights

- Thirty-two states and FCT have reported suspected cholera cases in 2021. These are Abia, Adamawa, Bauchi, Bayelsa, Benue, Borno, Cross River, Delta, Ebonyi, Ekiti, Enugu, FCT, Gombe, Jigawa, Kaduna, Kano, Katsina, Kebbi, Kogi, Kwara, Lagos, Nasarawa, Niger, Ogun, Ondo, Osun, Oyo, Plateau, Sokoto, Taraba, Yobe, Rivers and Zamfara
- In the reporting week, 9 states reported **217** suspected cases - Adamawa (139), Nasarawa (22), Taraba (22), Yobe (14), Zamfara (7), Oyo (7), Benue (4), Gombe (1) and Ondo (1)
- There was **51% decrease in the number of new suspected cases** in week 47 (217) compared with week 46 (440)
- Adamawa (139), Nasarawa (22) and Taraba (22) account for 84% of 217 suspected cases reported in week 47
- During the reporting week, 27 Cholera Rapid Diagnostic Test (RDT) was conducted. RDT conducted was from Adamawa (15), Taraba (11) and Ondo (1). Of this, a total of 10 (37%) was positive
- No stool culture was done
- Of the cases reported, there were nine deaths from three states reporting with a weekly case fatality ratio (CFR) of 4.1%
- No new state reported cases in week 47
- The national multi-sectoral EOC activated at level 02 continues to coordinate the national response

Cumulative Epi-Summary

- As of **28th November 2021**, a total of **106,348** suspected cases including **3,579** deaths (**CFR 3.4%**) have been reported from 32 states and FCT in 2021
- Of the suspected cases since the beginning of the year, **age group 5 - 14 years** is the most affected age group for male and female
- Of all suspected cases, **50% are males and 50% are females**
- Four states - Bauchi (19,470 cases), Jigawa (15,141 cases) Kano (12,116 cases), and Zamfara (11,927 cases) account for 55% of all cumulative cases
- Twelve LGAs across five states Bauchi (4), Zamfara (4), Jigawa (2), Kano (1) and Katsina (1) have reported more than 1,000 cases each this year

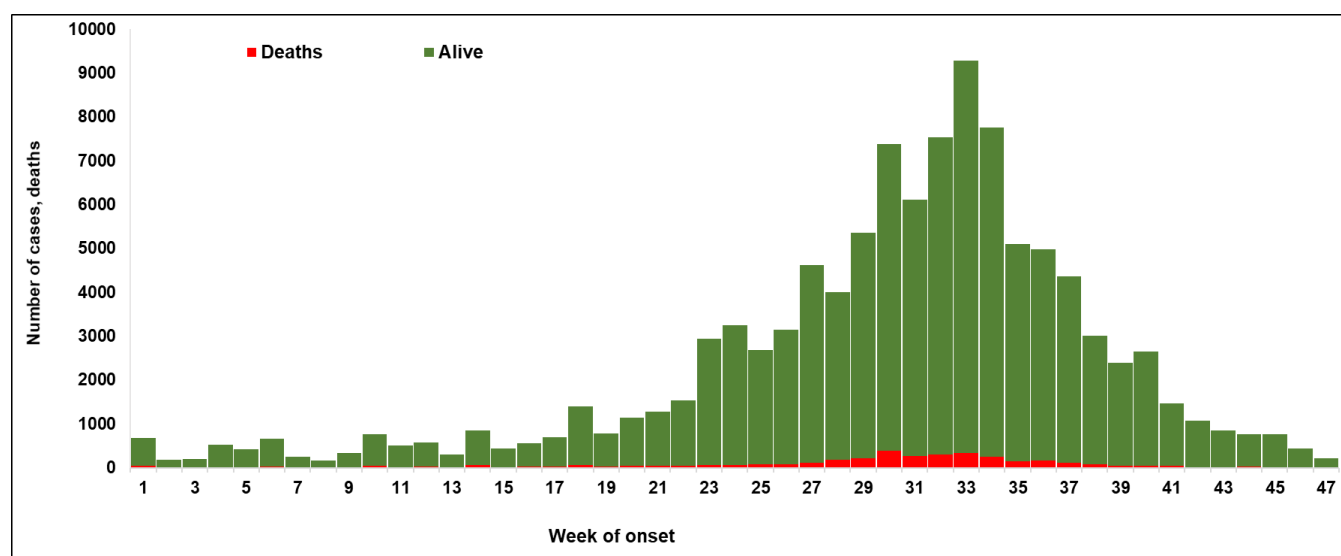


Figure 1: National Epidemic curve of weekly reported Cholera cases, week 1 to week 47, 2021

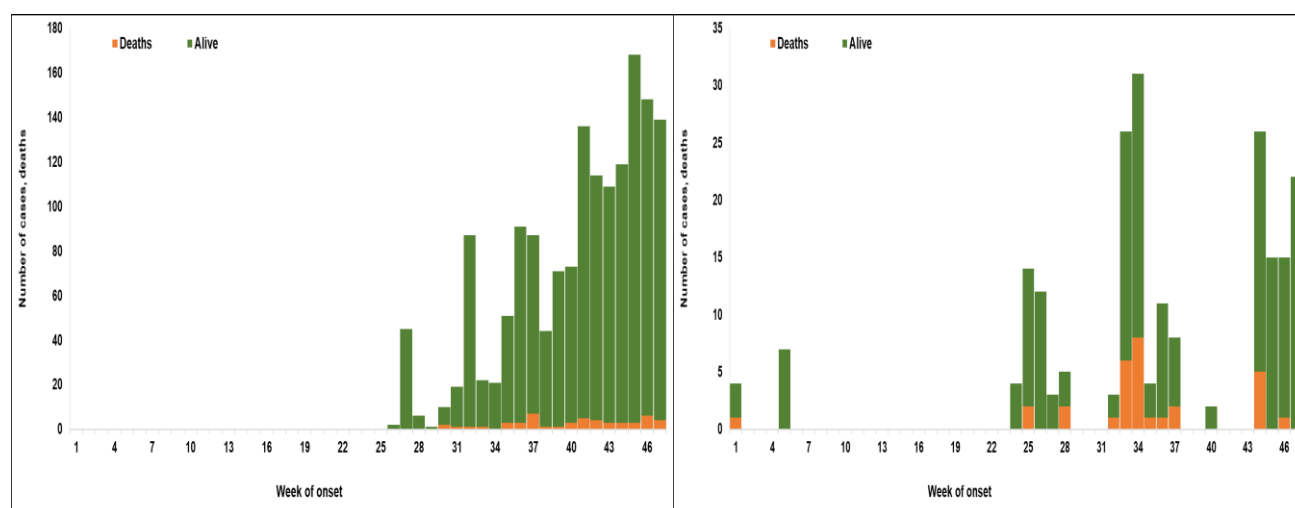


Fig 2: Adamawa epidemic curve, week 1 to week 47,

Fig 3: Taraba epidemic curve, week 1 to week 47, 2021

Cholera Situation Report

Epi Week: 47 2021

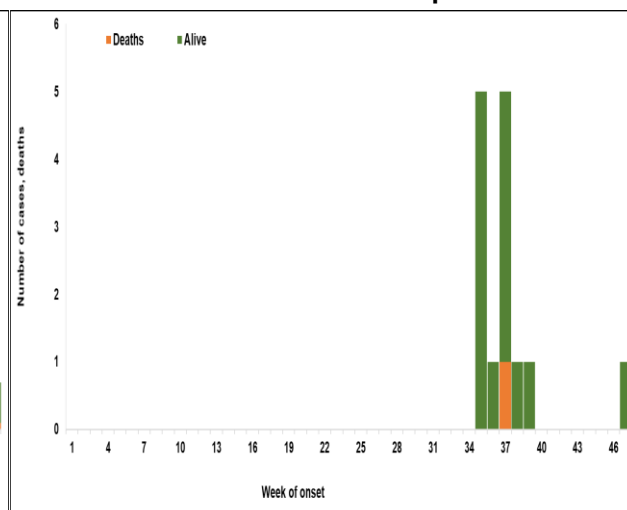
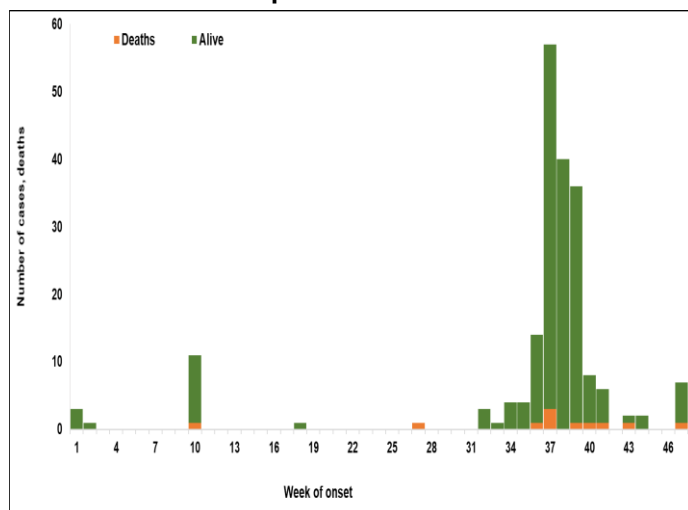


Fig 4: Oyo epidemic curve, week 1 to week 47, 2021

Fig 5: Ondo epidemic curve, week 1 to week 47, 2021

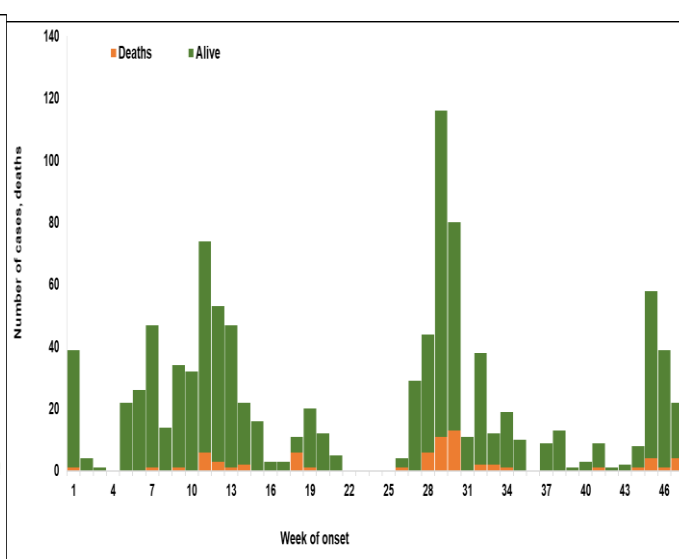
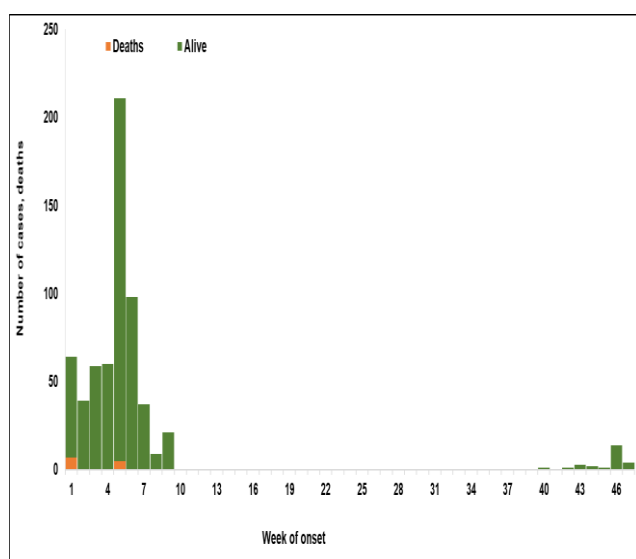


Fig 6: Benue epidemic curve, week 1 to week 47, 2021

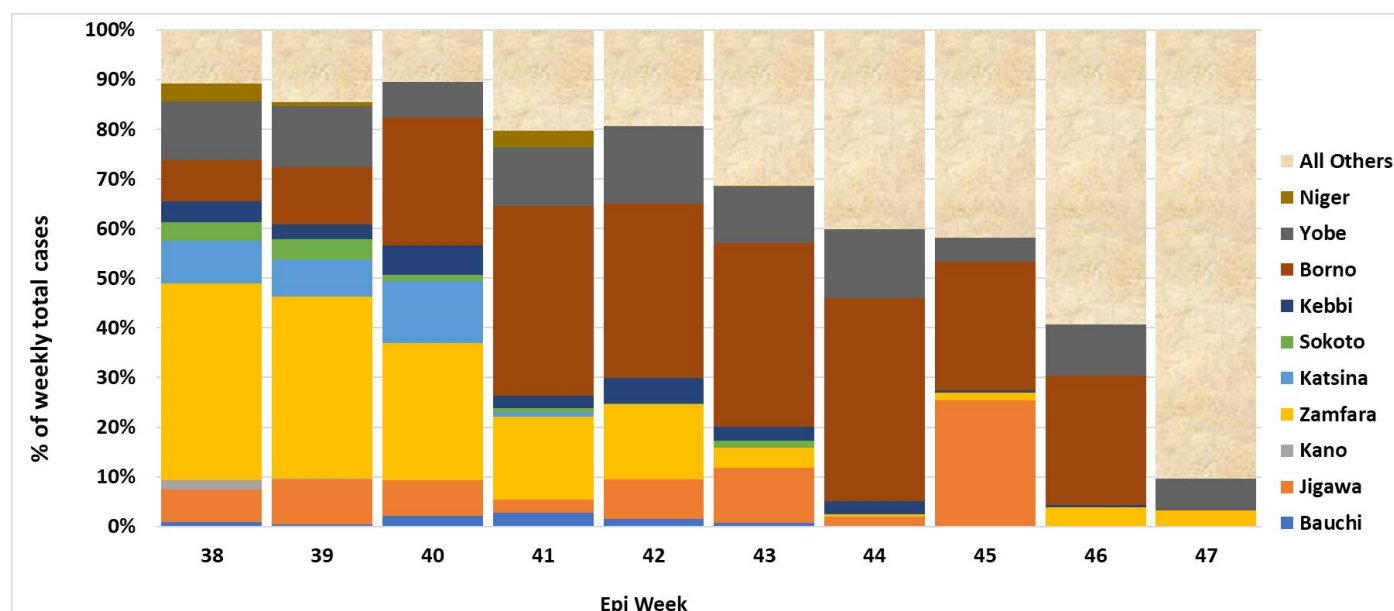
Fig 7: Nasarawa epidemic curve, week 1 to week 47, 2021

Table 3: Top 10 states in cumulative cases

No	State	Cases	Percent of cumulative cases	Cumulative % of total cases
1	Bauchi	19,470	18%	18%
2	Jigawa	15,141	14%	33%
3	Kano	12,116	11%	44%
4	Zamfara	11,927	11%	55%
5	Katsina	8,602	8%	63%
6	Sokoto	8,477	8%	71%
7	Kebbi	5,949	6%	77%
8	Borno	4,750	4%	81%
9	Yobe	3,993	4%	85%
10	Niger	2,821	3%	88%
Total		93,246	88%	

Table 4: Top 15 Local Government Areas (LGAs) in cumulative cases

No	LGA	State	Cases	% of cumulative cases	Cumulative %
1	Bauchi	Bauchi	9336	9%	9%
2	Zurmi	Zamfara	2888	3%	11%
3	Anka	Zamfara	2637	2%	14%
4	Shinkafi	Zamfara	2342	2%	16%
5	Gusau	Zamfara	2012	2%	18%
6	Funtua	Katsina	1959	2%	20%
7	Sumaila	Kano	1923	2%	22%
8	Toro	Bauchi	1911	2%	24%
9	Ganjuwa	Bauchi	1311	1%	25%
10	Tafawa Balewa	Bauchi	1081	1%	26%
11	Gwadabawa	Sokoto	969	1%	27%
12	Dange-Shuni	Sokoto	958	1%	28%
13	Damaturu	Yobe	896	1%	28%
14	Ningi	Bauchi	860	1%	29%
15	Bichi	Kano	837	1%	30%
Total			31,920	30%	

**Figure 8: Percentage contribution of weekly cases by state in recent 10 weeks, week 38 - 47, 2021**

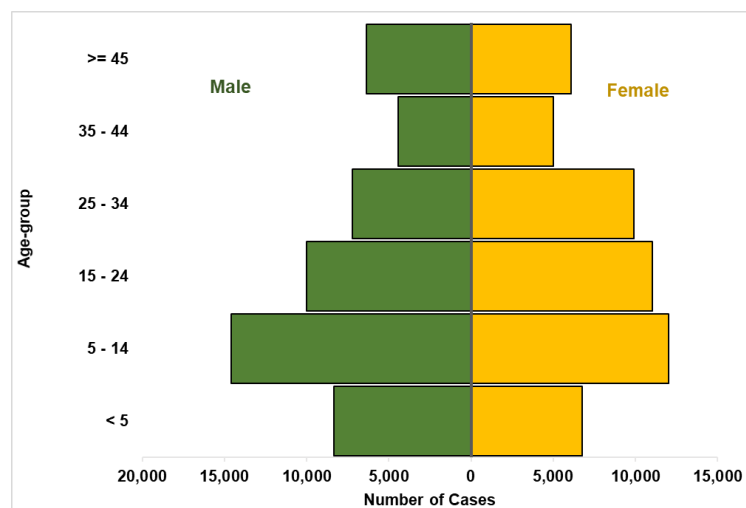


Figure 9. Age-Sex Pyramid for cumulative Cholera Cases, week 1-47, 2021: N=105,781

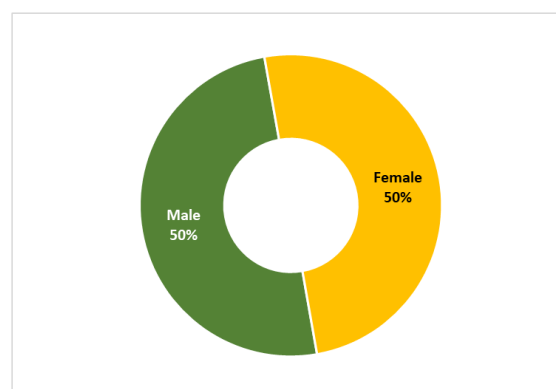


Figure 10. Sex disaggregation for cumulative Cholera cases, week 1-47, 2021: N=105,781

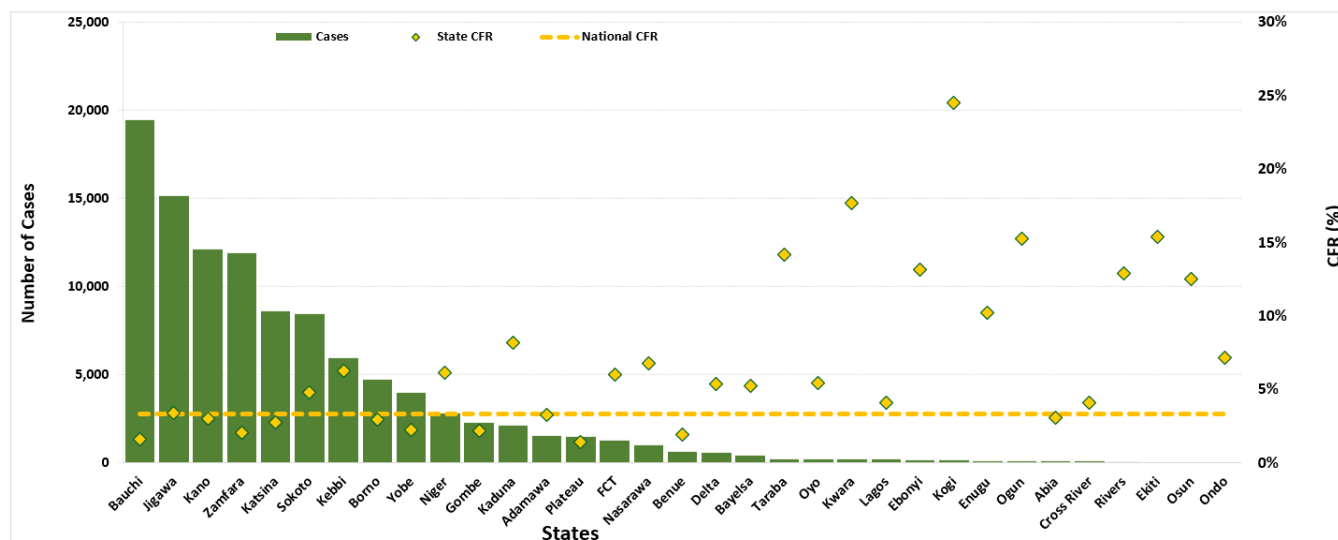


Figure 11: Number of cumulative cholera cases with case fatality ratio (CFR) by state, week 1 - 47, 2021

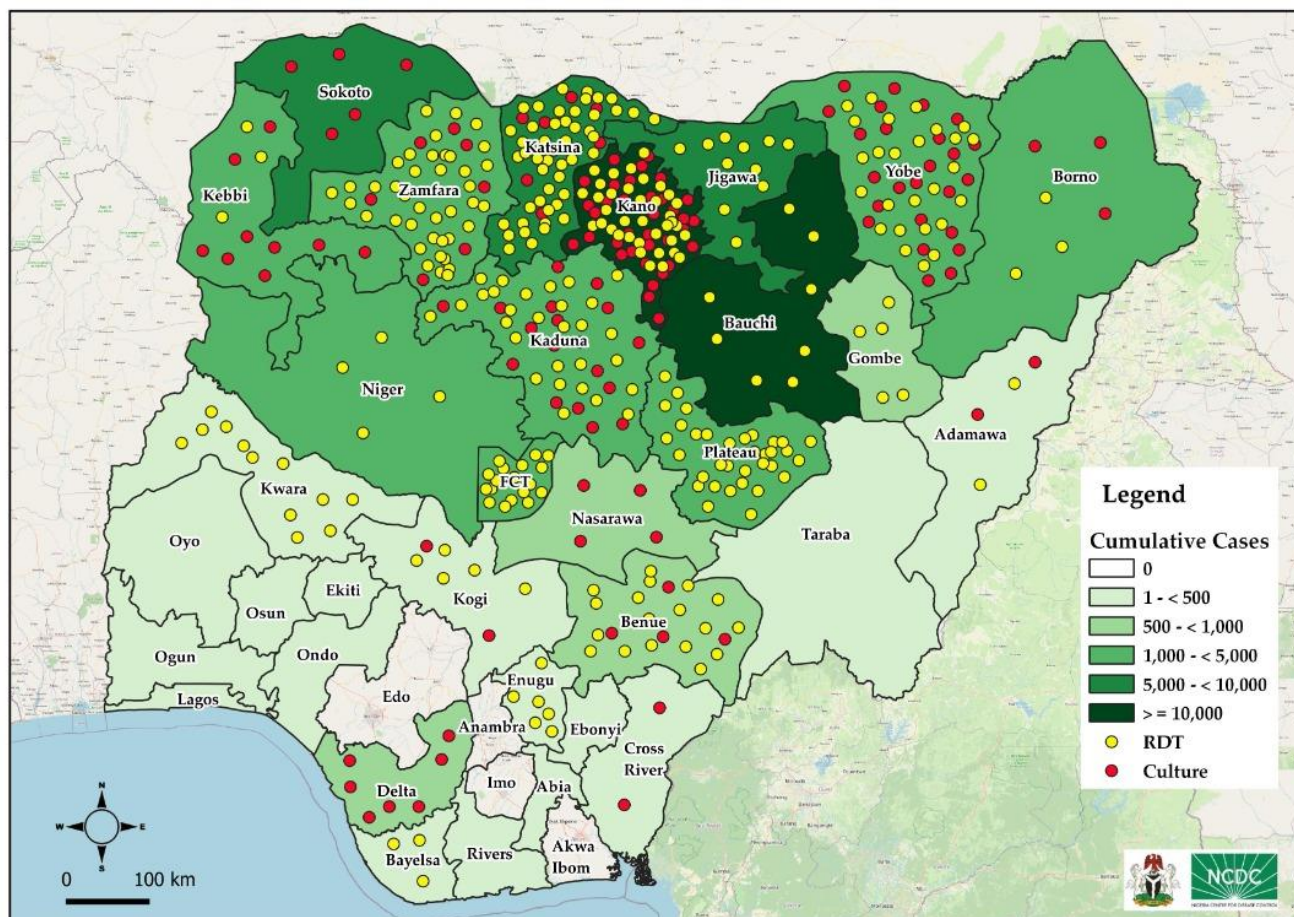


Figure 12. Map of Nigeria showing states with RDT + Culture confirmation and suspected cases, week 1 - 47, 2021

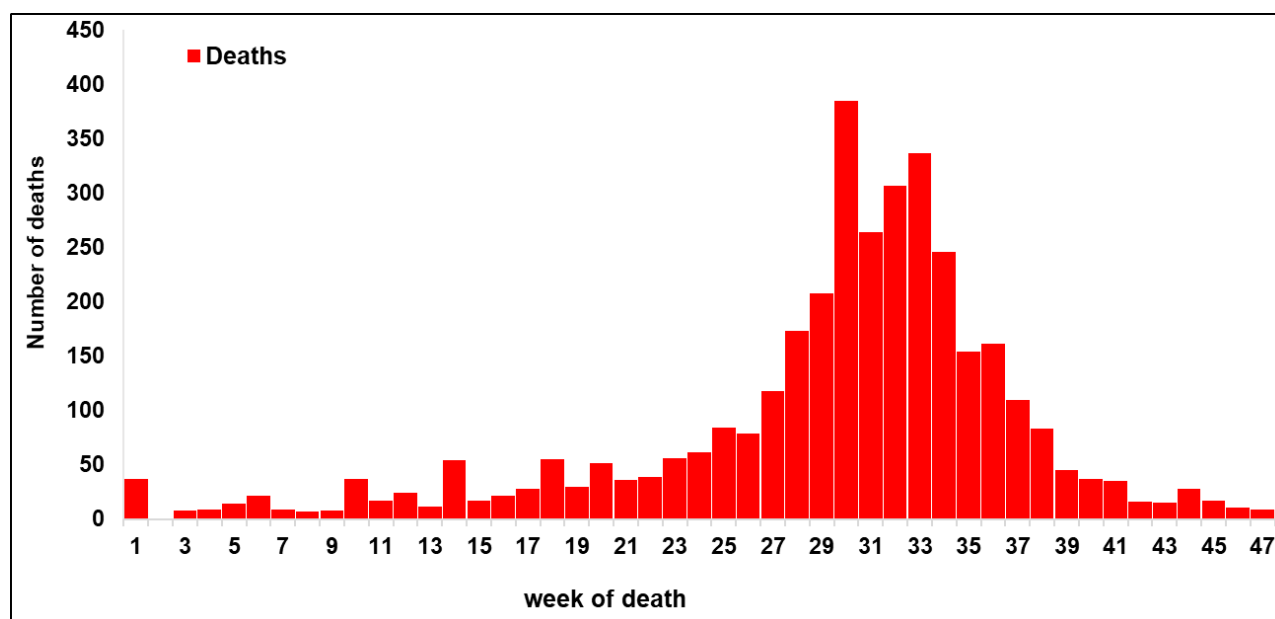


Figure 13: Trends in Deaths, week 1 - 47, 2021, Nigeria

Table 5. Summary table for Weekly & Cumulative number of Cholera Cases, for 2021

	States Reporting cases in 2021	State outbreak status*	Current week: (Week 47)						Cumulative (Week 1 - 47)					
			Cases		Deaths		Tests		Cases	Deaths	CFR	Tests		
			Cases	% change	Deaths	% change	RDT (%Pos)	Culture (%pos)				RDT (%Pos)	Culture (%pos)	
1	Bauchi	Active							19,470	320	1.6%	152 (67%)	25 (100%)	
2	Jigawa								15,141	517	3.4%	507 (2%)		
3	Kano								12,116	368	3.0%	21 (95%)	21 (81%)	
4	Zamfara	Active	7	▼ 59%					11,927	244	2.0%	147 (67%)	100 (74%)	
5	Katsina								8,602	237	2.8%	222 (23%)	139 (12%)	
6	Sokoto								8,477	410	4.8%		5 (80%)	
7	Kebbi	Active		▼ 100%					5,949	374	6.3%	69 (65%)	25 (72%)	
8	Borno		Active		▼ 100%					4,750	140	2.9%	1245 (12%)	250 (28%)
9	Yobe			14	▼ 69%		▼ 100%		3,993	91	2.3%	167 (52%)	89 (90%)	
10	Niger	Active							2,821	174	6.2%	79 (61%)		
11	Gombe		1	▼ 98%					2,303	50	2.2%	294 (84%)		
12	Kaduna			▼ 100%					2,132	175	8.2%	190 (53%)	15 (87%)	
13	Adamawa	Active	139	▼ 6%	4	▼ 33%	15 (67%)	1,563	51	3.3%	251 (64%)	95 (64%)		
14	Plateau								1,486	21	1.4%	76 (43%)	5 (0%)	
15	FCT								1,286	77	6.0%	29 (72%)		
16	Nasarawa	Active	22	▼ 44%	4	▲ 300%		1,013	69	6.8%	15 (100%)	30 (80%)		
17	Benue		4	▼ 71%					624	12	1.9%	30 (67%)	4 (100%)	
18	Delta								578	31	5.4%		5 (40%)	
19	Bayelsa	Active							440	23	5.2%	8 (75%)	6 (0%)	
20	Taraba		22	▲ 47%		▼ 100%	11 (0%)	212	30	14.2%	30 (50%)			
21	Oyo		7	▲ 100%	1	▲ 100%		201	11	5.5%	14 (50%)	1 (100%)		
22	Kwara	Active							198	35	17.7%	137 (12%)		
23	Lagos			▼ 100%		▼ 100%		196	8	4.1%		192 (5%)		
24	Ebonyi								175	23	13.1%	3 (100%)		
25	Kogi	Active							151	37	24.5%	9 (78%)	8 (50%)	
26	Enugu								127	13	10.2%	7 (100%)		
27	Ogun								105	16	15.2%	45 (62%)		
28	Abia	Active							97	3	3.1%	5 (40%)	5 (40%)	
29	Cross River								97	4	4.1%	4 (75%)	6 (33%)	
30	Rivers								62	8	12.9%			
31	Ekiti	Active							26	4	15.4%	5 (80%)	8 (25%)	
32	Osun								16	2	12.5%	2 (50%)	2 (0%)	
33	Ondo		1	▲ 100%					14	1	7.1%	5 (20%)	1 (100%)	
	National	15	217	▼ 51%	9	▼ 18%	27 (37%)	106,348	3,579	3.4%	3768 (35%)	1037 (41%)		

Table 6: Response activities

Pillar	Activities to date	Next steps
Coordination	<ul style="list-style-type: none"> Response is being coordinated by the national multi-sectoral EOC hosted at NCDC, in collaboration with Federal Ministry of Health (FMOH), Federal Ministry of Water Resources (FMWR), Federal Ministry of Environment (FMEvrt), and partners National Rapid Response Teams (RRTs) with response commodities deployed by NCDC to support the response in sixteen states - Benue, Kano, Kaduna, Zamfara, Bauchi, Plateau, Jigawa, Katsina, Niger, Gombe, Sokoto, Kebbi, Oyo, Yobe, Adamawa, Borno, Ogun, Cross River and the FCT 	<ul style="list-style-type: none"> The national multi-sectoral EOC activated at level 02 continues to coordinate the national response Continue zonal level trainings on cholera detection, reporting and case management Planned After Action Review (AAR)
Surveillance	<ul style="list-style-type: none"> Ongoing surveillance in all states through the routine Integrated Disease Surveillance and Response (IDSR) and Event Based Surveillance (EBS) Providing offsite/onsite support to states and follow up for daily reporting and progress with response activities 	<ul style="list-style-type: none"> Continue data collation and harmonisation Continue zonal level trainings on data analysis
Case Management & IPC	<ul style="list-style-type: none"> Provided technical support and response commodities to affected states 	<ul style="list-style-type: none"> Continue providing technical support on case management and IPC to states Continue training of Health Care Workers (HCW) on management of cholera Continuous follow up with states for updates and support
Laboratory	<ul style="list-style-type: none"> Supported testing of samples received from Benue, Niger, Plateau, Bauchi, Jigawa, Kaduna, Kano, Kwara, Katsina, Enugu, Bayelsa, Adamawa, Nasarawa, Gombe, Yobe, Borno, Oyo, Kebbi, Sokoto, Ebonyi, Abia, Taraba and FCT at NCDC National Reference Laboratory (NRL), Abuja Ongoing testing across state-level laboratories 	<ul style="list-style-type: none"> Planned sub-national level training of Laboratory Scientists on sample collection and analysis
WASH	<ul style="list-style-type: none"> Hygiene promotion, provision of safe water, water chlorination, household disinfection and sensitisation on dangers of open defecation ongoing in high-risk communities by WASH sector partners and Community Health Volunteers in the affected states Continuous construction of sanitation and hygiene facilities with boreholes in cholera hotspots 	<ul style="list-style-type: none"> Continue distribution of hygiene kits to affected states

Logistics	<ul style="list-style-type: none"> Essential response commodities are being distributed to all cholera affected states 	<ul style="list-style-type: none"> Continue supporting affected states with essential response commodities
Vaccination (led by NPHCDA)	<ul style="list-style-type: none"> Epidemiological trend is being monitored to guide ICG request for planned vaccination campaigns Reactive OCV campaigns were conducted in March at Agatu LGA, Benue State; July at Bauchi LGA, Bauchi State; October at Dutse, Birnin-Kudu and Hadejia LGAs of Jigawa state, Damaturu LGA of Yobe state 	<ul style="list-style-type: none"> Continue monitoring epidemiological trend to guide ICG request for planned vaccination campaigns Planned OCV campaigns in: Zamfara State (LGAs: Shinkafi, Zurmi)
Risk communication	<ul style="list-style-type: none"> Cholera jingles are being aired in English and local languages Community social mobilisation, media interviews, distribution of Information, Education and Communication (IEC) materials and awareness campaigns ongoing in affected communities Conducted Ministerial press briefings 	<ul style="list-style-type: none"> Continue airing of cholera jingles and distribution of IEC materials Continue media engagement meetings and training of journalist, other media professionals Continued follow-up with states for update on risk communication
State Response	Multi-sectoral State-level EOCs currently activated in Zamfara, Kaduna, Bauchi, Plateau, Kano, Enugu, Jigawa, Niger, Gombe, Sokoto, Katsina, Adamawa, Borno, Oyo, Lagos, Kebbi, Yobe, Ogun, Cross River, Taraba and the FCT	Continue supporting state response activities

Challenges

- Difficulty in accessing some communities due to security concerns
- Open defecation in affected communities
- Lack of potable drinking water in some rural areas and urban slums
- Inadequate vaccines to cover all LGAs, wards and settlements with cholera outbreaks
- Inadequate health facility infrastructure and cholera commodities for management of patients (Ringer's lactate and ORS)
- Inadequate trained personnel in states for case management
- Poor and inconsistent reporting from states

Next Steps

- Conduct training on cholera surveillance, hotspot mapping and develop state level preparedness and response plans
- Maintain communication with and support to states for data reporting and response
- Conduct OCV campaigns in Zamfara State
- Develop and submit cholera vaccination request to International Coordinating Group (ICG) and the Global Task Force for Cholera Control (GTFCC) for reactive and preventive cholera campaign with NPHCDA
- Continue advocacy to State Governments to increase funding in WASH infrastructure
- Pre-position response commodities across states
- Build capacity for sample collection, transportation and laboratory diagnosis
- Planned deployment of RRTs to more affected states
- Planned After Action Review (AAR)
- Scale up risk communications

Notes on this report

Data Source

Information for this disease was case based data retrieved from the National Cholera Emergency Operations Centre.

Case definitions

Suspected Case:

- Any patient aged ≥ 2 years with acute watery diarrhoea and severe dehydration or dying from acute watery diarrhoea with or without vomiting
- In areas where a Cholera outbreak is declared, any person presenting with or dying from acute watery diarrhoea with or without vomiting

Confirmed Case: A suspected case in which *Vibrio cholerae* O1 or O139 has been isolated in the stool by culture

Erratum

- A backlog of 387 cases were added to the 53 cases for week 46 and makes a total of 440 cases

DATA AS REPORTED AND ACCURATE BY NCDC AS AT MIDNIGHT 28th NOVEMBER 2021