



# Cholera Situation Report

## WEEKLY EPIDEMIOLOGICAL REPORT 20

Epidemiological week 43: (25 October to 31 October 2021)

### Key Points

Table 1: Summary of current week (Epi week 43 ,2021)

| Suspected Cases | Deaths (Suspected cases) | Case Fatality Ratio (%) | States Reporting Cases | LGAs Reporting cases |
|-----------------|--------------------------|-------------------------|------------------------|----------------------|
| 409             | 8                        | 2.0%                    | 14                     | 35                   |

Table 2: Cumulative summary from Epi week 1 - 43,2021

| Suspected Cases | Deaths (Suspected cases) | Case Fatality Ratio (%) | States Reporting Cases | LGAs Reporting cases |
|-----------------|--------------------------|-------------------------|------------------------|----------------------|
| 99,979          | 3,445                    | 3.4%                    | 33                     | 391                  |

### Week 43 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, 14 states reported **409** suspected cases - Borno (210), Adamawa (68), Yobe (61), Kebbi (20), Kaduna (14) Sokoto (12), Ogun (10), Bauchi (6), Benue (2), Oyo (2), Zamfara (1), Gombe (1), Niger (1) and Cross River (1).
- There was a **41% decrease in the number of new suspected cases** in week 43 (409) compared with week 42 (692)
- Borno (210) and Adamawa (68) account for 68% of 409 suspected cases reported in week 43
- During the reporting week, 30 Cholera Rapid Diagnostic Tests (RDT) were conducted. RDT conducted were from Borno (20), Ogun (4), Adamawa (3), Benue (2) and Oyo (1). Of this, a total of 9 (30%) were positive by RDT
- Only 1 stool culture was done in Borno and is positive
- Of the cases reported, there were eight deaths from the five states reporting with a weekly case fatality ratio (CFR) of 2.0% and a decrease by 38% compared to week 42
- No new state reported cases in week 43
- The national multi-sectoral EOC activated at level 02 continues to coordinate the national response

### Cumulative Epi-Summary

- As of **31<sup>st</sup> October 2021**, a total of **99,979** suspected cases including **3,445** 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 (12,965 cases) Kano (12,116 cases), and Zamfara (11,101 cases) account for 56% 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

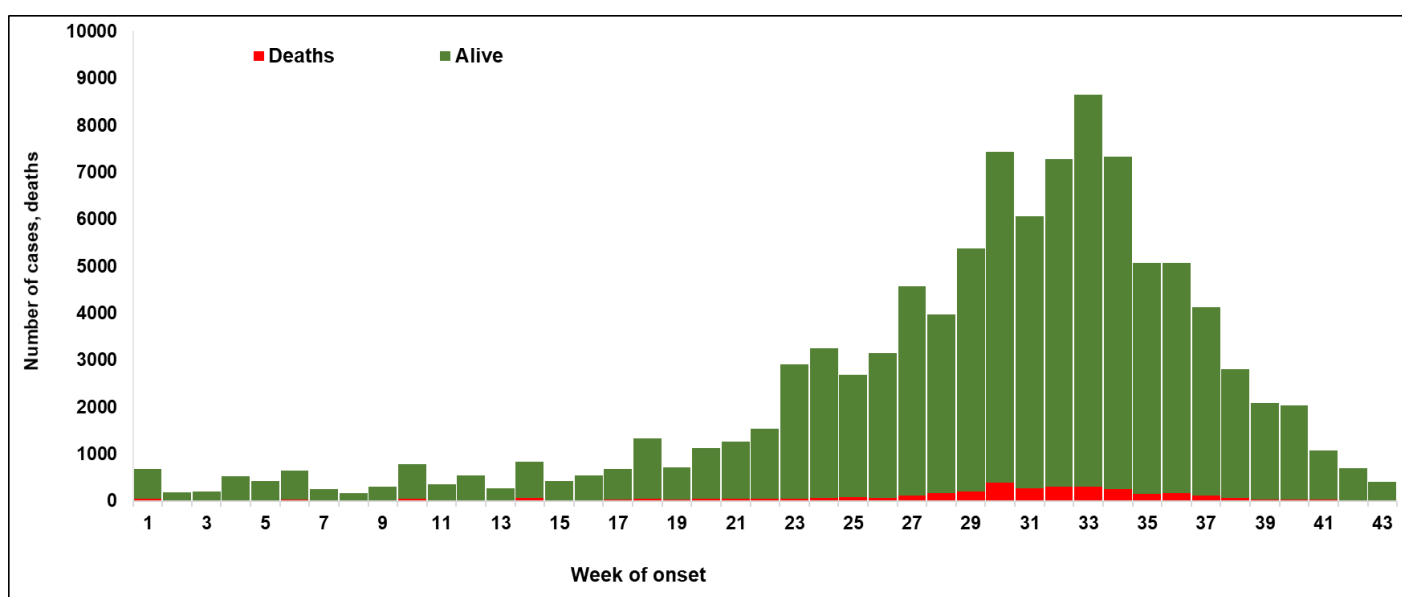


Figure 1: National Epidemic curve of weekly reported Cholera cases, week 1 to week 43, 2021

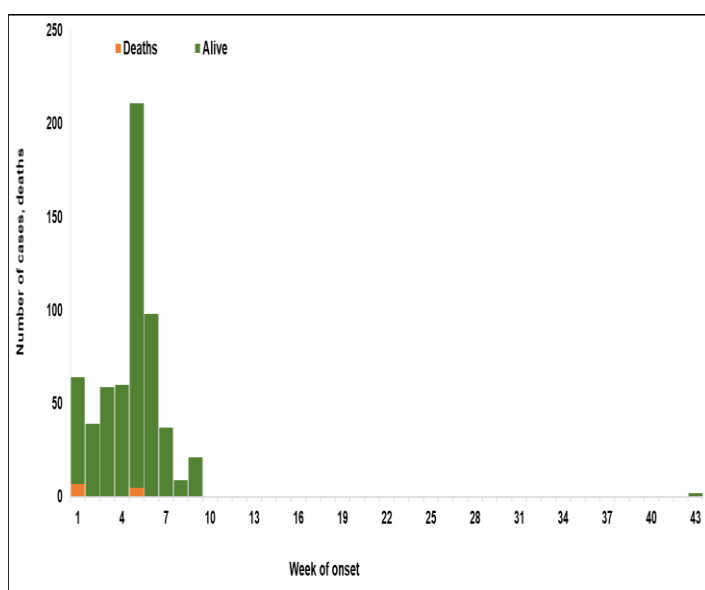


Fig 2: Benue epidemic curve, week 1 to week 43, 2021

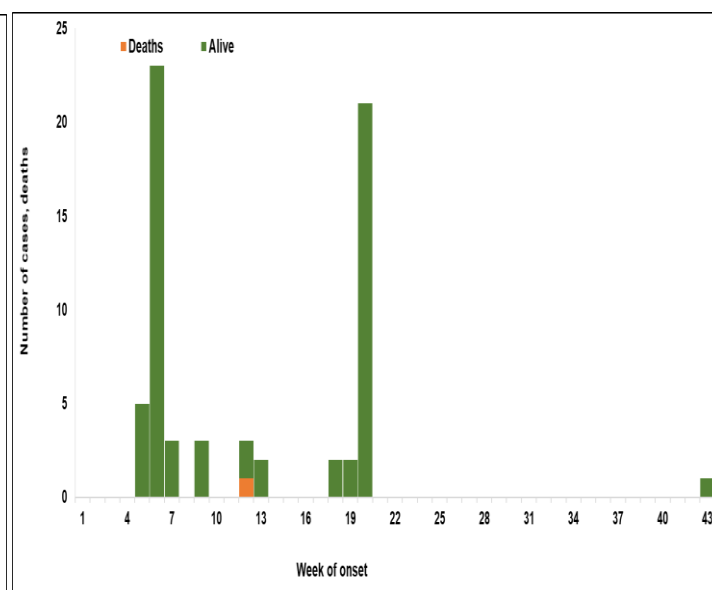


Fig 3: Cross River epidemic curve, week 1 to week 43, 2021

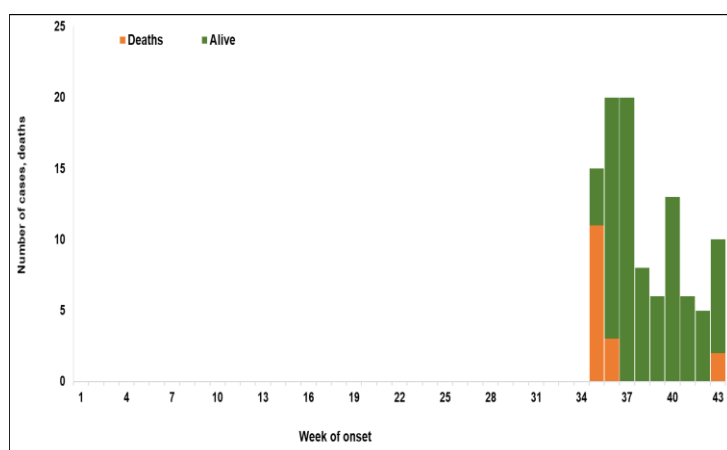


Fig 4: Ogun epidemic curve, week 1 to week 43, 2021

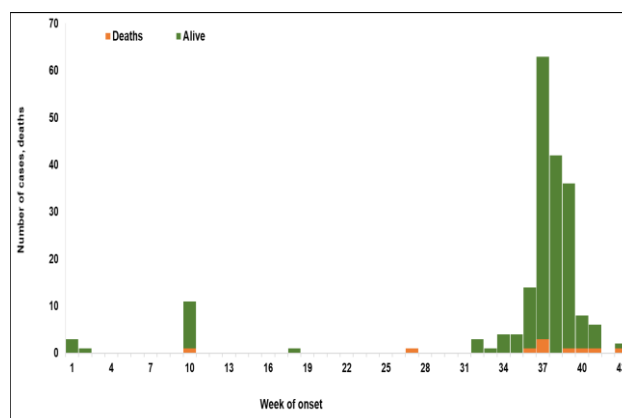


Fig 5: Oyo epidemic curve, week 1 to week 43, 2021

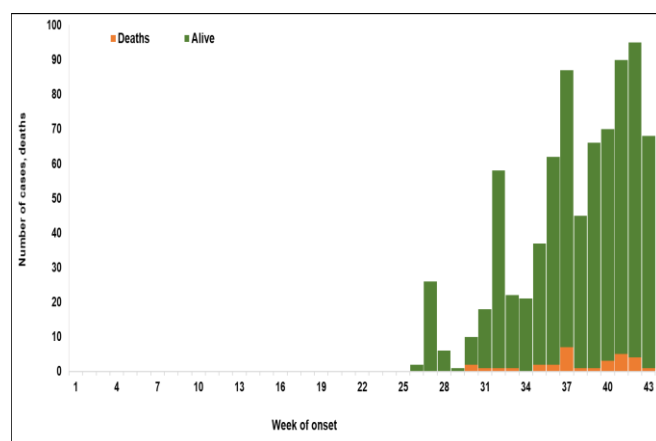


Fig 6: Adamawa epidemic curve, week 1 to week 43, 2021

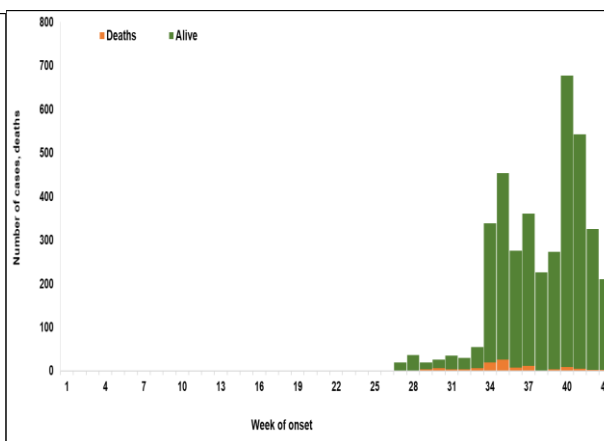


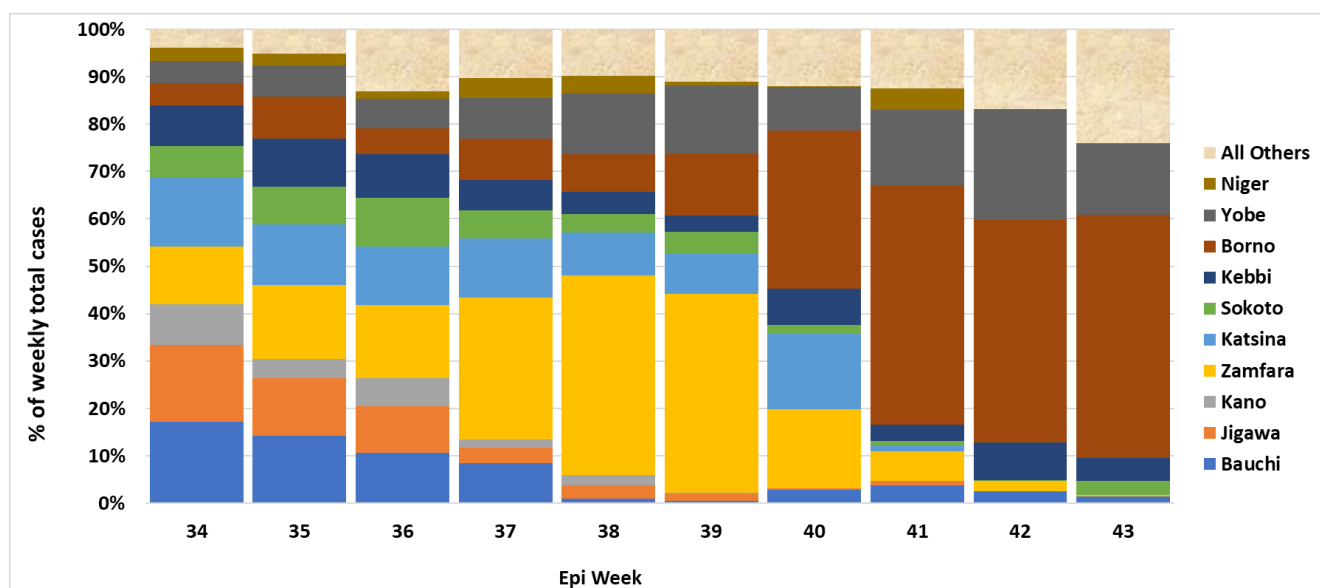
Fig 7: Borno epidemic curve, week 1 to week 43, 2021

Table 3: Top 10 states in cumulative cases

| No | State        | Cases         | Percent of cumulative cases | Cumulative % of total cases |
|----|--------------|---------------|-----------------------------|-----------------------------|
| 1  | Bauchi       | 19,470        | 19%                         | 19%                         |
| 2  | Jigawa       | 12,965        | 13%                         | 32%                         |
| 3  | Kano         | 12,116        | 12%                         | 45%                         |
| 4  | Zamfara      | 11,101        | 11%                         | 56%                         |
| 5  | Katsina      | 8,602         | 8%                          | 73%                         |
| 6  | Sokoto       | 8,477         | 9%                          | 75%                         |
| 7  | Kebbi        | 5,920         | 6%                          | 79%                         |
| 8  | Borno        | 3,906         | 4%                          | 84%                         |
| 9  | Yobe         | 3,750         | 4%                          | 86%                         |
| 10 | Niger        | 2,821         | 3%                          | 89%                         |
|    | <b>Total</b> | <b>89,128</b> | <b>89%</b>                  |                             |

**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     | Hadejia       | Jigawa  | 3060   | 3%                    | 12%          |
| 3     | Dutse         | Jigawa  | 3000   | 3%                    | 15%          |
| 4     | Zurmi         | Zamfara | 2855   | 3%                    | 18%          |
| 5     | Shinkafi      | Zamfara | 2152   | 2%                    | 20%          |
| 6     | Anka          | Zamfara | 2100   | 2%                    | 23%          |
| 7     | Gusau         | Zamfara | 2012   | 2%                    | 25%          |
| 8     | Funtua        | Katsina | 1959   | 2%                    | 26%          |
| 9     | Sumaila       | Kano    | 1923   | 2%                    | 28%          |
| 10    | Toro          | Bauchi  | 1911   | 2%                    | 30%          |
| 11    | Ganjuwa       | Bauchi  | 1311   | 1%                    | 32%          |
| 12    | Tafawa Balewa | Bauchi  | 1081   | 1%                    | 33%          |
| 13    | Birnin Kudu   | Jigawa  | 970    | 1%                    | 34%          |
| 14    | Gwadabawa     | Sokoto  | 969    | 1%                    | 35%          |
| 15    | Dange-Shuni   | Sokoto  | 958    | 1%                    | 36%          |
| Total |               |         | 35,597 | 36%                   |              |

**Figure 8: Percentage contribution of weekly cases by state in recent 10 weeks, week 34 - 43, 2021**

# Cholera Situation Report

Epi Week: 43 2021

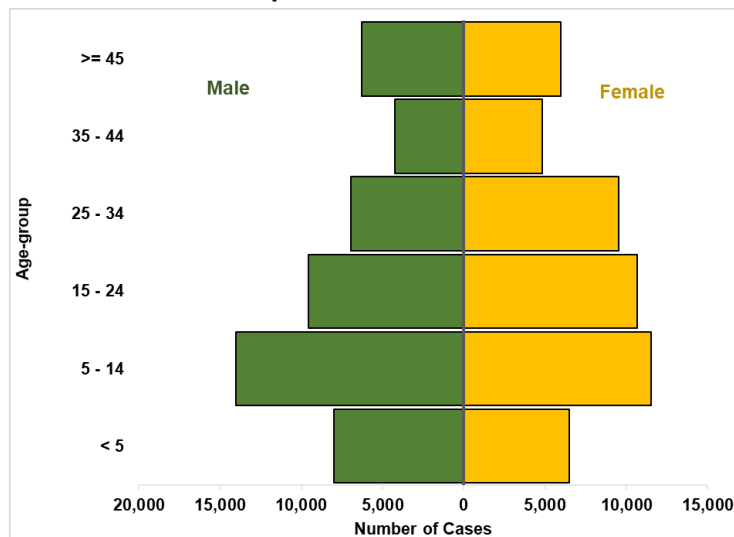


Figure 9. Age-Sex Pyramid for cumulative Cholera Cases, week 1-43, 2021: N=99,026

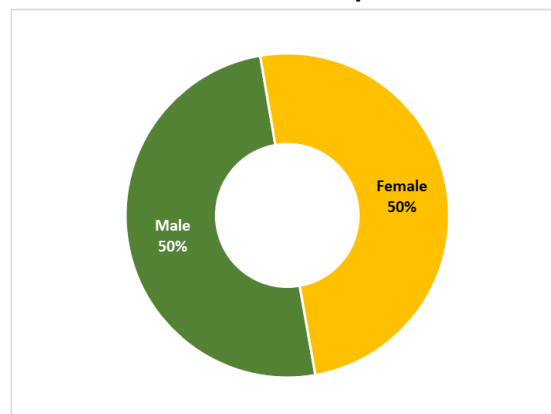


Figure 10. Sex disaggregation for cumulative Cholera cases, week 1-43, 2021: N=99,026

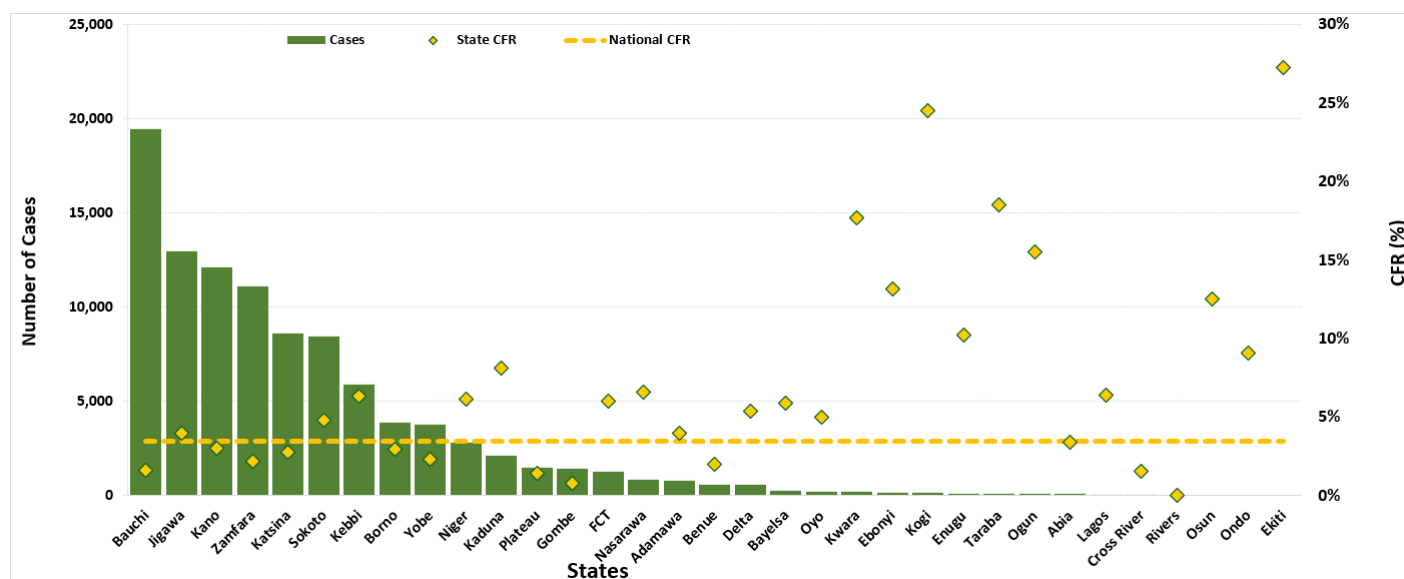


Figure 11: Number of cumulative cholera cases with case fatality ratio (CFR) by state, week 1 - 43, 2021

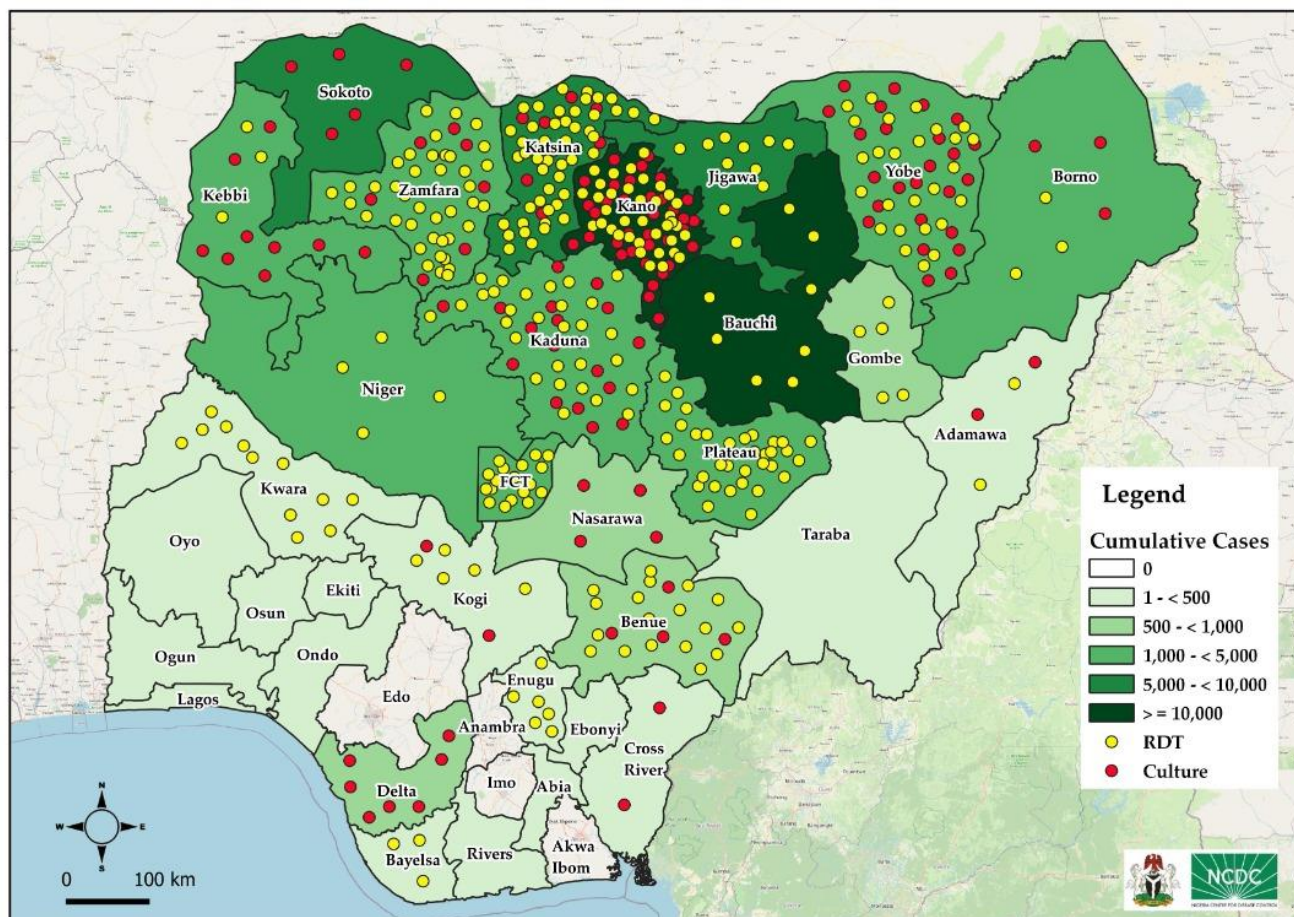


Figure 12. Map of Nigeria showing states with RDT + Culture confirmation and suspected cases, week 1 - 43, 2021

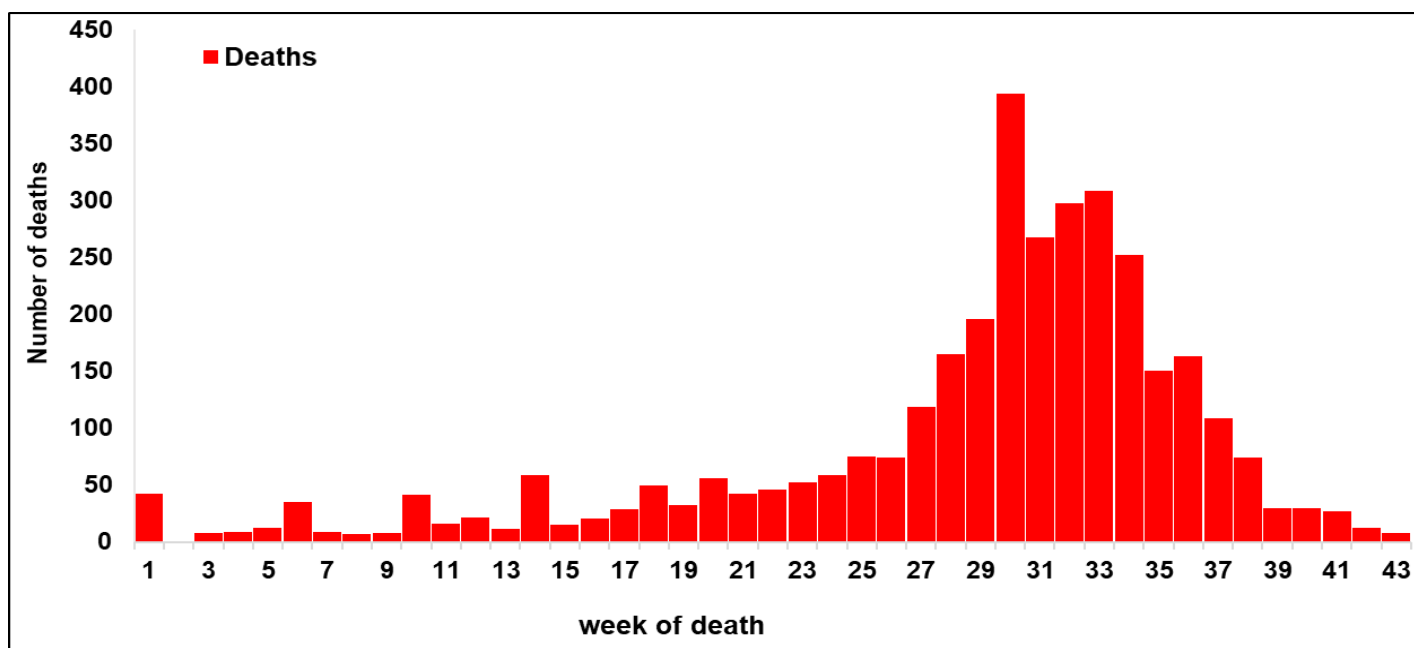


Figure 13: Trends in Deaths, week 1 - 43, 2021, Nigeria



**Epi Week: 43 2021**

|    | States<br><br>Reporting cases in 2021 | State outbreak status* | Current week: (Week 43 ) |          |        |          |            |                |            | Cumulative (Week 1 - 43 ) |        |            |                |  |
|----|---------------------------------------|------------------------|--------------------------|----------|--------|----------|------------|----------------|------------|---------------------------|--------|------------|----------------|--|
|    |                                       |                        | Cases                    |          | Deaths |          | Tests      |                |            | Cases                     | Deaths | CFR        | Tests          |  |
|    |                                       |                        | Cases                    | % change | Deaths | % change | RDT (%Pos) | Culture (%pos) | RDT (%Pos) |                           |        |            | Culture (%pos) |  |
| 1  | Bauchi                                | Active                 | 6                        | ▼ 65%    |        |          |            |                | 19,470     | 320                       | 1.6%   | 152 (67%)  | 25 (100%)      |  |
| 2  | Jigawa                                | Active                 |                          |          |        |          |            |                | 12,965     | 516                       | 4.0%   | 37 (65%)   |                |  |
| 3  | Kano                                  |                        |                          |          |        |          |            |                | 12,116     | 368                       | 3.0%   | 21 (95%)   | 21 (81%)       |  |
| 4  | Zamfara                               | Active                 | 1                        | ▼ 94%    |        |          |            |                | 11,101     | 244                       | 2.2%   | 131 (65%)  | 94 (72%)       |  |
| 5  | Katsina                               | Active                 |                          |          |        |          |            |                | 8,602      | 237                       | 2.8%   | 222 (23%)  | 139 (12%)      |  |
| 6  | Sokoto                                | Active                 | 12                       | ▲ 1100%  |        |          |            |                | 8,477      | 410                       | 4.8%   |            | 5 (80%)        |  |
| 7  | Kebbi                                 | Active                 | 20                       | ▼ 64%    |        | ▼ 100%   |            |                | 5,920      | 374                       | 6.3%   | 65 (63%)   | 25 (72%)       |  |
| 8  | Borno                                 | Active                 | 210                      | ▼ 35%    | 3      |          | 20 (15%)   | 1 (100%)       | 3,906      | 116                       | 3.0%   | 742 (14%)  | 89 (58%)       |  |
| 9  | Yobe                                  | Active                 | 61                       | ▼ 62%    |        | ▼ 100%   |            |                | 3,750      | 86                        | 2.3%   | 167 (52%)  | 89 (90%)       |  |
| 10 | Niger                                 | Active                 | 1                        | ▲ 100%   |        |          |            |                | 2,821      | 174                       | 6.2%   | 79 (61%)   |                |  |
| 11 | Kaduna                                | Active                 | 14                       | ▲ 1300%  | 1      | ▲ 100%   |            |                | 2,126      | 173                       | 8.1%   | 190 (53%)  | 15 (87%)       |  |
| 12 | Plateau                               |                        |                          |          |        |          |            |                | 1,481      | 21                        | 1.4%   | 76 (43%)   | 5 (0%)         |  |
| 13 | Gombe                                 | Active                 | 1                        | ▼ 83%    |        |          |            |                | 1,412      | 11                        | 0.8%   | 416 (79%)  |                |  |
| 14 | FCT                                   |                        |                          |          |        |          |            |                | 1,286      | 77                        | 6.0%   | 29 (72%)   |                |  |
| 15 | Nasarawa                              | Active                 |                          |          |        |          |            |                | 865        | 57                        | 6.6%   | 17 (100%)  |                |  |
| 16 | Adamawa                               | Active                 | 68                       | ▼ 28%    | 1      | ▼ 75%    | 3 (100%)   |                | 784        | 31                        | 4.0%   | 194 (62%)  | 90 (64%)       |  |
| 17 | Benue                                 | Active                 | 2                        | ▲ 100%   |        |          | 2 (50%)    |                | 600        | 12                        | 2.0%   | 21 (95%)   | 4 (100%)       |  |
| 18 | Delta                                 |                        |                          |          |        |          |            |                | 578        | 31                        | 5.4%   |            | 5 (40%)        |  |
| 19 | Bayelsa                               |                        |                          |          |        |          |            |                | 256        | 15                        | 5.9%   | 4 (75%)    | 4 (0%)         |  |
| 20 | Oyo                                   | Active                 | 2                        | ▲ 100%   | 1      | ▲ 100%   | 1 (0%)     |                | 200        | 10                        | 5.0%   | 14 (50%)   | 1 (100%)       |  |
| 21 | Kwara                                 | Active                 |                          | ▼ 100%   |        |          |            |                | 198        | 35                        | 17.7%  | 137 (12%)  |                |  |
| 22 | Ebonyi                                |                        |                          |          |        |          |            |                | 175        | 23                        | 13.1%  | 3 (100%)   |                |  |
| 23 | Lagos                                 | Active                 |                          |          |        |          |            |                | 152        | 6                         | 3.9%   |            | 18 (44%)       |  |
| 24 | Kogi                                  |                        |                          |          |        |          |            |                | 151        | 37                        | 24.5%  | 9 (78%)    | 8 (50%)        |  |
| 25 | Enugu                                 |                        |                          |          |        |          |            |                | 127        | 13                        | 10.2%  | 7 (100%)   |                |  |
| 26 | Taraba                                |                        |                          |          |        |          |            |                | 119        | 22                        | 18.5%  | 11 (73%)   |                |  |
| 27 | Ogun                                  | Active                 | 10                       | ▲ 100%   | 2      | ▲ 100%   | 4 (50%)    |                | 103        | 16                        | 15.5%  | 44 (64%)   |                |  |
| 28 | Abia                                  | Active                 |                          | ▼ 100%   |        |          |            |                | 89         | 3                         | 3.4%   | 10 (40%)   | 5 (40%)        |  |
| 29 | Cross River                           | Active                 | 1                        | ▲ 100%   |        |          |            |                | 65         | 1                         | 1.5%   |            | 3 (67%)        |  |
| 30 | Rivers                                |                        |                          |          |        |          |            |                | 46         | -                         | 0.0%   |            |                |  |
| 31 | Osun                                  |                        |                          |          |        |          |            |                | 16         | 2                         | 12.5%  | 2 (50%)    | 2 (0%)         |  |
| 32 | Ondo                                  |                        |                          |          |        |          |            |                | 11         | 1                         | 9.1%   | 4 (25%)    |                |  |
| 33 | Ekiti                                 |                        |                          |          |        |          |            |                | 11         | 3                         | 27.3%  | 2 (100%)   | 2 (100%)       |  |
|    |                                       |                        |                          |          |        |          |            |                |            |                           |        |            |                |  |
|    |                                       |                        |                          |          |        |          |            |                |            |                           |        |            |                |  |
|    |                                       |                        |                          |          |        |          |            |                |            |                           |        |            |                |  |
|    |                                       |                        |                          |          |        |          |            |                |            |                           |        |            |                |  |
|    | National                              | 20                     | 409                      | ▼ 41%    | 8      | ▼ 38%    | 30 (30%)   | 1 (100%)       | 99,979     | 3,445                     | 3.4%   | 2806 (46%) | 649 (58%)      |  |

*\*State is considered active if it has reported cases in recent 3 weeks from reporting week, Other states listed have reported cases during the year but not in recent 3 weeks*

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

**Table 6: Response activities**

| Pillar                           | Activities to date  | Next steps   |
|----------------------------------|---|--|
| <b>Coordination</b>              | <ul style="list-style-type: none"> <li>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</li> <li>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 and the FCT</li> </ul> | <ul style="list-style-type: none"> <li>The national multi-sectoral EOC activated at level 02 continues to coordinate the national response</li> <li>Continue zonal level trainings on cholera detection, reporting and case management</li> <li>Planned NRRT deployment to Borno, Zamfara, Adamawa, Ogun and Cross River States</li> </ul> |
| <b>Surveillance</b>              | <ul style="list-style-type: none"> <li>Ongoing surveillance in all states through the routine Integrated Disease Surveillance and Response (IDSR) and Event Based Surveillance (EBS)</li> <li>Providing offsite/onsite support to states and follow up for daily reporting and progress with response activities</li> </ul>   | <ul style="list-style-type: none"> <li>Continue data collation and harmonisation</li> <li>Continue zonal level trainings on data analysis</li> </ul>   |
| <b>Case Management &amp; IPC</b> | <ul style="list-style-type: none"> <li>Provided technical support and response commodities to affected states</li> </ul>  | <ul style="list-style-type: none"> <li>Continue providing technical support on case management and IPC to states</li> <li>Continue training of Health Care Workers (HCW) on management of cholera</li> <li>Continuous follow up with states for updates and support</li> </ul>   |
| <b>Laboratory</b>                | <ul style="list-style-type: none"> <li>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 and FCT at NCDC National Reference Laboratory (NRL), Abuja</li> <li>Ongoing testing across state-level laboratories</li> </ul>   | <ul style="list-style-type: none"> <li>Planned sub-national level training of Laboratory Scientists on sample collection and analysis</li> </ul>   |
| <b>WASH</b>                      | <ul style="list-style-type: none"> <li>Hygiene promotion, provision of safe water, water chlorination, household disinfection and sensitisation on dangers of open</li> </ul>   | <ul style="list-style-type: none"> <li>Continue distribution of hygiene kits to affected states</li> </ul>   |



|                                    |   |  |
|------------------------------------|---|--|
|                                    | <p>defecation ongoing in high-risk communities by WASH sector partners and Community Health Volunteers in the affected states</p> <ul style="list-style-type: none"> <li>Continuous construction of sanitation and hygiene facilities with boreholes in cholera hotspots</li> </ul>   |  |
| <b>Logistics</b>                   | <ul style="list-style-type: none"> <li>Essential response commodities are being distributed to all cholera affected states</li> </ul>   | <ul style="list-style-type: none"> <li>Continue supporting affected states with essential response commodities</li> </ul>  |
| <b>Vaccination (led by NPHCDA)</b> | <ul style="list-style-type: none"> <li>Epidemiological trend is being monitored to guide ICG request for planned vaccination campaigns</li> <li>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</li> </ul> | <ul style="list-style-type: none"> <li>Continue monitoring epidemiological trend to guide ICG request for planned vaccination campaigns</li> <li>Planned OCV campaigns in: Zamfara State (LGAs: Shinkafi, Zurmi)</li> </ul>  |
| <b>Risk communication</b>          | <ul style="list-style-type: none"> <li>Cholera jingles are being aired in English and local languages</li> <li>Community social mobilisation, media interviews, distribution of Information, Education and Communication (IEC) materials and awareness campaigns ongoing in affected communities</li> <li>Conducted Ministerial press briefings</li> </ul>        | <ul style="list-style-type: none"> <li>Continue airing of cholera jingles and distribution of IEC materials</li> <li>Continue media engagement meetings and training of journalist, other media professionals</li> <li>Continued follow-up with states for update on risk communication</li> </ul> |
| <b>State Response</b>              | 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 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
- 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  $\geq 2$  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 5,638 cases reported in previous weeks (before week 43) were added to the line list. This follows deployment of teams across several states to update the line lists.
- Of the total 5,638 backlog, 438 cases were for week 42 thus total cases for week 42 is 692

**DATA AS REPORTED AND ACCURATE BY NCDC AS AT MIDNIGHT 31<sup>st</sup> OCTOBER 2021**