Country Population: 4,999,425 | Volume 12 Issue 6 | February 3 – 9, 2020 | Data Source: CSOs from 15 Counties and Lab

Highlights

Figure 1: Public Health Events Reported during this week

Keynotes and Events of Public Health Significance

- **A total of 119** events of public health importance including **15** deaths were reported
- **Completeness and timeliness** of health facility reports were both **99%**
- **Ongoing Lassa fever** outbreaks in six counties
- **New** outbreak in one county

Reporting Coverage

Table 1: Health Facility Weekly DSR Reporting Coverage, Liberia, Epi week 6, 2020

<table>
<thead>
<tr>
<th>County</th>
<th>Expected Report from Health Facility</th>
<th>Reports Received</th>
<th>Reports Received on Time</th>
<th>Completeness (%)</th>
<th>Timeliness (%)</th>
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<td>846</td>
<td>839</td>
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</table>

Legend: ≥80 | <80

- The national target for weekly IDSR reporting is **80%**
- Health facility timeliness is monitored at District level
- All fifteen counties submitted their weekly IDSR report to the national level on time
Vaccine Preventable Diseases

Measles

Thirty-four (34) suspected cases were reported from Sinoe (12), Montserrado (6), Gbarpolu (5), Grand Gedeh (3), Maryland (2), Grand Cape Mount (1), Lofa (1), Bomi (1), Bong (1), Nimba (1), and Rivercess (1) counties.

- Twenty-five (25) specimens were collected, 6 positive, 7 negative, 1 indeterminate and 11 pending

Vaccination status among suspected cases:
- Vaccinated 23 (68%), Unknown 10 (29%) and not vaccinated 1 (3%)

Age distribution among suspected cases:
- <1 year: 2 (6%), 1–4 years: 8 (24%), ≥5 years: 24 (70%)

Cumulatively, since epi week 1, one hundred and twenty-eight (128) suspected cases have been reported. Of the total, 81 have been tested by the National Reference Laboratory and results showed 25 positive, 53 negative and 3 equivocal.

Epi classification is as follow: 64 (79%) confirmed cases (lab confirmed 25(31%), clinically confirmed 39(48%), epi-linked 8(10%), 53(65%) negative, and 2 (2.4%) indeterminate

- Of the samples tested negative for measles, 34 tested for rubella and results showed 19 positive, 14 negative and 1 equivocal

Public Health Action

- Case management, active case search, health education, and community engagement are ongoing in affected districts and communities

Figure 2: Cumulative Epi-classification of Measles cases by reporting week, Liberia, Epi-week 1 – 6, 2020

Acute Flaccid Paralysis (Suspected Polio)

- Zero case was reported
- Cumulatively, since epi week 1, four (4) suspected cases have been reported

Neonatal Tetanus

- One case was reported from Grand Bassa County
- Cumulatively, since epi week 1, three (3) clinically diagnosed cases have been reported
**Viral Hemorrhagic Diseases**

**Ebola Virus Disease (EVD)**
- Zero alert was reported

**Lassa fever**
- Ten (10) suspected cases were reported from Bong (5), Grand Bassa (2), Montserrado (1), Nimba (1) and Rivercess (1) Counties
  - Specimens were collected for all and tested and results showed, all negative
- Cumulatively, since epi week 1, seventy-two (72) suspected cases have been reported
  - Proportion of suspected cases with sample collected 100% (n=70)
  - Proportion of suspected cases with specimen tested 100% (n=70)
  - Two suspected cases reported from Bong County were dropped because they did not meet the case definition
  - Laboratory confirmed: 29
  - Case fatality rate in confirmed cases: 41.3%
  - Epi classification is as follows: 29 lab confirmed, 41 not a case

**Yellow fever**
- Two (2) suspected cases reported from Maryland County
  - Specimens were collected for all and pending results
- Cumulatively, since epi week 1, fifteen (15) suspected cases have been reported of which 11 negative and 4 pending

**Monkeypox**
- Zero suspected case was reported
- Cumulatively, since epi week 1, three (3) suspected cases have been reported

**Meningitis**
- Three suspected cases were reported from Grand Cape Mount (2) and Lofa (1) Counties
  - Specimen was collected for all and tested one positive for streptococcus pneumonia from Grand Cape Mount and two negative
- Cumulatively, since epi week 1, thirteen (13) suspected cases have been reported including one (1) confirmed

**Events of Public Health Importance**

**Maternal Mortality**
- Three (3) deaths were reported from Montserrado (1), Grand Cape Mount (1) and Bong (1) Counties
- Causes of deaths: Eclampsia (1), Ruptured uterus (1) and Post-partum hemorrhage (1)
- Reporting site: health facilities 3 (100%)
- Cumulatively, since epi week 1, twenty-two (22) deaths have been recorded
Neonatal Mortality

Twelve (12) deaths were reported from Montserrado (8), Nimba (1), Rivercess (1), Bong (1) and Maryland (1) Counties

Causes of deaths: Birth asphyxia (6), Neonatal sepsis (5) and Pneumonia (1)

Reporting sites: health facilities 12 (100%)

Cumulatively, since epi week 1, sixty-six (66) deaths have been recorded

Other Reportable Diseases

Animal Bites (Human Exposure to Rabies)

Forty-one (41) suspected cases reported from Montserrado (18), Sinoe (5), Grand Kru (4), Nimba (3), Grand Cape Mount (3), Grand Gedeh (1), Bong (1), Gbarpolu (1), Lofa (1), Margibi (1), Maryland (1), River Gee (1) and Rivercess (1) Counties

Cumulatively, since Epi week one, 205 suspected cases have been recorded

Acute Bloody Diarrhea (Suspected Shigellosis)

Thirteen (13) suspected cases reported from Grand Gedeh (4), Lofa (3), Sinoe (1), Rivercess (1), Margibi (1), Montserrado (1), Grand Bassa (1), Gbarpolu (1) Counties

Three (3) specimens were collected and pending confirmation

Cumulatively, since epi week 1, fifty-one (51) cases have been recorded, one tested positive and 11 negative

Severe Acute Watery Diarrhea (Suspected Cholera)

Zero suspected case reported

Cumulatively, since epi week 1, nine (9) cases have been reported

Points of Entry

Zero IDSR alert detected and verified across the points of entry

A total of 8783 travelers were recorded for the week (See Table 2)

Table 2: Total Travelers, IDSR Alerts Detected and Verified at Points of Entry, Liberia, Epi-week 6, 2020

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<th>Type of Ports</th>
<th>Point of Entry</th>
<th>Weekly total</th>
<th>Arrival</th>
<th>Departure</th>
<th>Yellow Book Issued</th>
<th>Yellow Book Damage</th>
<th>Card Replaced</th>
<th>Travelers Vaccinated</th>
<th>Alerts Verified</th>
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<td>Total Traveler for the Week</td>
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</table>

Note: Yellow book issue for both arrival and departure; Vaccination coverage for both arrival and departure
The National Public Health Institute of Liberia continues to monitor acute public health emergencies and outbreaks occurring in the African Region in order to ensure preparedness and preventive measures are implemented.

During this week, 70 ongoing events are being monitored through the WHO Health Emergencies Program in the African Region. Key events highlighted during the week include the following:

- Ebola virus disease in Democratic Republic of the Congo
- Lassa fever in Liberia
- Lasssa fever in Nigeria
- Crimean-Congo haemorrhagic fever in Mali
- Humanitarian crisis in Burkina Faso

### Outbreaks

#### Lassa fever

**District 3A & B, Grand Bassa County**
- No new confirmed case reported
  - A total of 45 contacts line listed and follow up
  - No case in isolation
- From January 1, 2020 to date, 11 confirmed cases have been recorded
  - 9 alive
  - 2 confirmed deaths (CFR 18.1%)
- Since the declaration of the outbreak in August 2019, twenty-two (22) confirmed cases including 3 deaths have been reported

**Jorquelleh District, Bong County**
- No new confirmed case reported as of February 12, 2020
  - A total of 167 contacts line listed under follow-up
  - One suspected case in isolation
- From January 1, 2020 to date, 14 confirmed cases have been recorded
  - 7 alive
  - 7 confirmed deaths (CFR 50%)
- Since declaration of the outbreak in August 2019, 23 confirmed cases including 10 deaths have been reported

**Commonwealth District, Montserrado County**
- No new confirmed case reported as of February 12, 2020
- Total contacts under follow up 101
  - From January 1, 2020 to date, two confirmed cases have been recorded
- Since the declaration of the outbreak in November 2019, four (4) confirmed cases have been reported
  - CFR 75%

**Kakata District, Margibi County**
- No new confirmed case reported
Six contacts completed follow up on January 28, 2020
(3 high risk, 2 low risk and 1 no risk)

From January 1, 2020 to date, one confirmed case recorded, and case was discharged from ELWA hospital

Voinjama District, Lofa County

No new confirmed case reported as of February 14, 2020

Fourteen (14) contacts completed follow up on January 28, 2020

- 8 high risk (4 HWs & 4 Family members)
- 6 low risk

Since the declaration of the outbreak in December 2019, two (2) confirmed cases reported

Measles

Jadae District, Sinoe County

A total of 8 suspected cases reported from Jaeda District

Since February, 17 cases have been recorded from Jaeda District: (4 lab confirmed, and 13 epi linked)

All reported cases were treated

Routine and SIA immunization coverages for 2019 are 75% and 65.4% respectively

Public health action

Plan to conduct a mini campaign in affected and surrounding, target seven hundred (700) children ages 9-23 month

Gbarpolu

Bokomu district

A total of five suspected cases including 3 labs confirmed were reported

Routine and SIA immunization coverage for 2018 and 2019 are 90% and 64% respectively

Public health action

All cases were treated and discharged

Plan to conduct a mini campaign targeting 3,032 children ages 6-59 months in affected and surrounding communities

Public Health Measures

National level

- Providing technical, logistical and financial support to counties
  - Heighten surveillance in affected and surrounding communities
- Publishing situational reports to inform stakeholders

County level

- Publication of situational reports to inform stakeholders
- Active case search ongoing in affected and surrounding communities
- Contact tracing, health education, and community engagement ongoing in affected communities
- Case management ongoing for isolated case
Liberia IDSR Epidemiology Bulletin
2020 Epi-week 6 (February 3 – 9, 2020)

Notes

☞ **Completeness** refers to the proportion of expected weekly IDSR reports received (target: ≥80%)

☞ **Timeliness** refers to the proportion of expected weekly IDSR reports received by the next level on time (target: ≥80%). Time requirement for weekly IDSR reports:
  - Health facility - required on or before 5:00pm every Saturday to the district level
  - Health district - required on or before 5:00pm every Sunday to the county level
  - County - required on or before 5:00pm every Monday to the national level

☞ **Non-polio AFP rate** is the proportion of non-polio AFP cases per 100,000 among the estimated population under 15 years of age in 2017 (annual target: ≥2/100,000)

☞ **Non-measles febrile rash illness rate** refers to the proportion of Negative measles cases per 100,000 population

☞ **Annualized maternal mortality rate** refers to the maternal mortality rate of a given period less than one year and it is the number of maternal deaths per 100,000 live births

☞ **Annualized neonatal mortality rate** refers to the neonatal mortality ratio of a given period less than one year and it is the number of neonatal deaths per 1,000 live births

☞ **Epi-linked** refers to any suspected case that has not had a specimen taken for serologic confirmation but is linked to a laboratory confirmed case

☞ **Confirmed case** refers to a case whose specimen has tested positive or reactive upon laboratory testing, or has been classified as confirmed by either epidemiologic linkage with a confirmed case, or clinical compatibility with the disease or condition

☞ **Case Fatality Rate (CFR)** is the proportion of deaths among confirmed cases
## Appendix 1: Summary of immediately reportable diseases, conditions, and events by County during Epi week 6 report, Liberia, 2020

<table>
<thead>
<tr>
<th>Counties</th>
<th>No. of Expected Health District</th>
<th>Acute Flaccid Paralysis (Suspected Polio)</th>
<th>Acute Bloody Diarrhoea (Shigellosis)</th>
<th>Human Exposure to Animal bites (Suspected Rabies)</th>
<th>Lassa fever</th>
<th>Measles</th>
<th>Meningitis</th>
<th>Maternal Mortality</th>
<th>Neonatal Tetanus</th>
<th>Ebola Virus Disease</th>
<th>Yellow fever</th>
<th>Monkeypox</th>
<th>Dengue fever</th>
<th>Buruli Ulcer</th>
<th>MDR Tuberculosis</th>
<th>Yaws</th>
<th>Unexplained Cluster of deaths</th>
<th>Unexplained Cluster of Health Events/Disease</th>
<th>Other Diseases/Events</th>
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<td><strong>Total Weekly</strong></td>
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<td><strong>Cumulative Reported</strong></td>
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</table>

**D** = Dead  
**A** = Alive
Epidemiological bulletin published with support of WHO and CDC

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WHO – Liberia Office
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**Data sources**
Data and information is provided by the fifteen County Surveillance Officers and National Public Health Reference Laboratory via regular weekly reports, telephone calls and email exchanges. Situations are evolving and dynamic therefore numbers stated are subject to change.