Figure 1: Public Health Events Reported during this week

Keynotes and Events of Public Health Significance

- A total of 63 events of public health importance including 11 deaths were reported.
- Completeness and timeliness of health facility reports were both 97%.
- Ongoing Lassa fever outbreaks in five counties.

Reporting Coverage

Table 1: Health Facility Weekly DSR Reporting Coverage, Liberia, Epi week 2, 2020

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

- Thirteen (13) suspected cases were reported from Bong (6), Sinoe (3), Lofa (2), Montserrado (1), and Grand Gedeh (1) Counties
  - Nine (9) specimens were collected, 7 tested negative and 2 pending laboratory confirmation
- Vaccination status among suspected cases
  - Vaccinated 12 (93%) and not vaccinated 1 (7%)
- Age distribution among suspected cases:
  - <1 – 4 years: 5 (36%), ≥5 years: 8 (64%)
- Cumulatively, since epi week 1, twenty-four (24) suspected cases have been reported. Of the total, 15 have been tested by the National Reference Laboratory and results showed 2 positive and 13 negative
  - Of the sample tested negative for measles, 7 tested for rubella and results showed 6 positive and 1 equivocal

Public Health Action

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

Acute Flaccid Paralysis (Suspected Polio)

- Two (2) suspected cases were reported from Gbarpolu and Maryland Counties
  - Samples were collected and shipped for testing
- Cumulatively, since epi week 1, five (5) suspected cases have been reported

Neonatal Tetanus

- Zero case was reported

Viral Hemorrhagic Diseases

Ebola Virus Disease (EVD)

- Zero alert reported

Lassa fever

- Six (6) suspected cases were reported from Grand Bassa (3), Bong (1), Montserrado (1) and Lofa (1) Counties
  - Six (6) specimens were collected and tested and results showed 5 positive and 1 negative
- Cumulatively, since epi week 1, fifteen (15) suspected cases have been reported
  - Proportion of suspected cases with sample collected 100% (n=15)
  - Proportion of suspected cases with specimen tested 100% (n=15)
  - Laboratory confirmed: 7
  - Case fatality rate in confirmed cases: 42.8%
  - Epi classification is as follows: 7 lab confirmed and 8 not a case
Yellow fever
- Zero cases reported
- Cumulatively, since epi week 1, two (2) suspected cases have been reported

Monkeypox
- One suspected case was reported from Nimba County
  - Samples collected for testing
- Cumulatively, since epi week 1, one (1) suspected case have been reported

Meningitis
- One suspected case reported from Grand Kru
  - Specimen was collected and tested negative
- Cumulatively, since epi week 1, two (2) suspected cases have been reported including one (1) confirmed

Events of Public Health Importance

Maternal Mortality
- Three (3) deaths were reported from Montserrado, Grand Bassa and Grand Gedeh Counties
- Causes of deaths: placenta previa, eclampsia and postpartum hemorrhage
- Reporting site: health facilities 3 (100%)
- Cumulatively, since epi week 1, six (6) deaths have been recorded

Neonatal Mortality
- Eight (8) deaths were reported from Montserrado (3), Margibi (2), Grand Bassa (1), Bong (1), and Maryland (1) Counties
- Causes of deaths: sepsis (4), asphyxia (3), and preterm (1)
- Reporting sites: health facilities 7 (87.5%) and community 1 (12.5%)
- Cumulatively, since epi week 1, seventeen (17) deaths have been recorded

Other Reportable Diseases

Animal Bites (Human Exposure to Rabies)
- Twenty three (23) suspected cases reported from Lofa (3), Bong (3), Montserrado (2), Maryland (2), Nimba (2), Rivercess (2), Grand Kru (2), Grand Gedeh (2), Bomi (1), Grand Bassa (1), Grand Cape Mount (1), Margibi (1), and Sinoe (1) Counties
- Cumulatively, since epi week 1, forty-four (44) suspected cases have been recorded

Acute Bloody Diarrhea (Suspected Shigellosis)
- Six (6) suspected cases reported from Lofa (2), Rivercess (2), Montserrado (1), and Grand Gedeh (1) Counties
  - One specimen collected and tested positive
- Cumulatively, since epi week 1, nine (9) cases have been recorded and one tested positive
Severe Acute Watery Diarrhea (Suspected Cholera)

- One (1) suspected case reported from Lofa County
  - Case identified during record review and no specimen collected
- Cumulatively, since epi week 1, four (4) cases have been reported

Unexplained Cluster of Health Events

- Zero unexplained death was reported

Points of Entry

- Zero IDSR alert detected and verified across the points of entry
- A total of 4643 travelers were recorded for the week (See Table 5)

### Table 5: Total Travelers, IDSR Alerts Detected and Verified at Points of Entry, Liberia, Epi-week 2, 2020

<table>
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<tr>
<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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</tbody>
</table>

Note: Yellow book issue for both arrival and departure; Vaccination coverage for both arrival and departure

AFRO Public Health Events

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

- Meningitis in Benin
- Measles in Democratic Republic of the Congo
- Ebola virus disease in Democratic Republic of the Congo

Source: WHO Week 2 Bulletin on Outbreaks and Other Emergencies
## 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 cases

## Outbreaks

### Lassa fever

#### District 3A & B, Grand Bassa County
- Three new confirmed cases reported
  - A total of 22 contacts line listed and follow up
  - Two cases discharged from isolation
  - Three confirmed cases currently in isolation
- Since August 22, 2019, eighteen (18) confirmed cases including 2 death have been reported
- Since January 2019 to date, 23 confirmed cases have been recorded
  - 19 alive
  - 4 confirmed deaths (CFR = 15.7%)

#### Jorquelleh District, Bong County
- No new case reported to date
  - 48 contacts line listed under follow-up
  - Since August 22, 2019, 9 confirmed cases including 4 deaths have been reported
- Since January 2019 to date, 17 confirmed cases have been reported
  - 7 confirmed deaths (CFR = 41.1%)

#### Commonwealth District, Montserrado County:
- No new confirmed case reported up to date
  - Confirmed case still in isolation
  - Sixty four contacts line listed and follow up
- Since November 2019 to date, 3 confirmed cases (1 alive, 2 dead) have been reported
- Total 76 contacts line listed and follow up
  - CFR = 66.6

### Kakata District, Margibi County
- No new confirmed case
- Six contacts still under follow up (3 high risk, 2 low risk and 1 no risk)

### Voinjama District, Lofa
- No new confirmed reported
  - Fourteen (14) contacts still under follow up
    - 8 high risk (4 HWs & 4 Family members)
    - 6 low risk
- Since December 2019 to date, 2 confirmed cases reported
  - CFR: 100%

### Measles

#### Tienpo District, River Gee County
- No new case reported
- A total of 47 cases including 7 lab confirmed recorded
- Tienpo District 2019 Measles coverage is 67%
- Gmamoken health facility 2019 Measles coverage 63%

### Public health action
- Plan to conduct a mini campaign in affected and surrounding, target seven hundred (700) children ages 9-23 months
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 5:00 pm every Saturday to the district level
  - Health district - required on or before 5:00 pm every Sunday to the county level
  - County - required on or before 5:00 pm 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 2 report, Liberia, 2020

<table>
<thead>
<tr>
<th>Counties</th>
<th>No. of Health Districts</th>
<th>Acute Flaccid Paralysis (Suspected Polio)</th>
<th>Acute Bloody Diarrhoea (Shigellosis)</th>
<th>Severe Acute Water Diarrhoea (Cholera)</th>
<th>Human Exposure to Animal bites (Suspected Rabies)</th>
<th>Lassa Fever</th>
<th>Meningitis</th>
<th>Maternal Mortality</th>
<th>Neonatal 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>90</strong></td>
<td><strong>2</strong></td>
<td><strong>6</strong></td>
<td><strong>1</strong></td>
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<td><strong>2</strong></td>
<td><strong>14</strong></td>
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<td><strong>10</strong></td>
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<td><strong>8</strong></td>
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<td><strong>1</strong></td>
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<td><strong>0</strong></td>
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<tr>
<td><strong>Cumulative Reported</strong></td>
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<td><strong>44</strong></td>
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<td><strong>15</strong></td>
<td><strong>4</strong></td>
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<td><strong>0</strong></td>
<td><strong>20</strong></td>
<td><strong>6</strong></td>
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<td><strong>Cumulative Lab-confirmed</strong></td>
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</tr>
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**D** = Dead  
**A** = Alive
Epidemiological bulletin published with support of WHO and CDC

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To prevent and control public health threats by promoting healthy outcomes and serving as a source of knowledge

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A center of excellence to create health outcomes for Liberians through a strong preventive health system and expertise

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