Figure 1: Public Health Events Reported during this week

<table>
<thead>
<tr>
<th>Disease</th>
<th>Number of Reports Received</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measles</td>
<td>94</td>
</tr>
<tr>
<td>Human Exposure to Rabies</td>
<td>42</td>
</tr>
<tr>
<td>Neonatal Death</td>
<td>18</td>
</tr>
<tr>
<td>Acute Bloody Diarrhea</td>
<td>10</td>
</tr>
<tr>
<td>Yellow Fever</td>
<td>8</td>
</tr>
<tr>
<td>Lassa Fever</td>
<td>4</td>
</tr>
<tr>
<td>Maternal Death</td>
<td>2</td>
</tr>
<tr>
<td>Cholera</td>
<td>2</td>
</tr>
<tr>
<td>Meningitis</td>
<td>1</td>
</tr>
</tbody>
</table>

Keynotes and Events of Public Health Significance

♦ A total of 181 events of public health importance including 21 deaths were reported

♦ Completeness and timeliness of health facility reports were both 99%

♦ Ongoing Lassa fever outbreaks in four counties

♦ Ongoing Measles outbreak in four counties

Reporting Coverage

Table 1: Health Facility Weekly DSR Reporting Coverage, Liberia, Epi week 9, 2020

<table>
<thead>
<tr>
<th>County</th>
<th>Number of Expected Report from Health Facility</th>
<th>Number of Reports Received</th>
<th>Number Received on Time</th>
<th>Completeness (%)</th>
<th>Timeliness (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bomi</td>
<td>26</td>
<td>26</td>
<td>26</td>
<td>100</td>
<td>100</td>
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<tr>
<td>Bong</td>
<td>59</td>
<td>59</td>
<td>59</td>
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<tr>
<td>Gbarpolu</td>
<td>16</td>
<td>16</td>
<td>16</td>
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<td>100</td>
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<tr>
<td>Grand Bassa</td>
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<td>20</td>
<td>100</td>
<td>100</td>
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<tr>
<td>River Gee</td>
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<td>100</td>
<td>100</td>
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<tr>
<td>Sinoe</td>
<td>37</td>
<td>37</td>
<td>37</td>
<td>100</td>
<td>100</td>
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</table>

Liberia: 841/837 (99%) Health facilities reported timely IDSR data

Legend:

- The national target for weekly IDSR reporting is 80%
- Health facility timeliness is monitored at District level
- Fourteen of the fifteen counties submitted their weekly IDSR report to the national level on time while Maryland reported late
Vaccine Preventable Diseases

Measles

- Ninety-four (94) suspected cases were reported from Grand Kru (62), Nimba (10), Sinoe (5), Lofa (3), Grand Gedeh (3), Montserrado (3), River Gee (2), Maryland (2), Rivercess (2), Gbarpolu (1) and Grand Bassa (1) counties.
  - Fourteen (14) specimens were collected, 11 tested: 4 positive, 6 negative, 1 indeterminate and 3 are clinically confirmed.
- Vaccination status among suspected cases:
  - Vaccinated 42 (44.7%), not vaccinated 45 (47.9%) and unknown 7 (7.4%).
- Age distribution among suspected cases:
  - 1–4 years: 36 (38.3%), ≥5 years: 58 (61.7%).

- Cumulatively, since epi week 1, Three hundred fifty-eight (358) suspected cases have been reported. Of the total, 143 have been tested by the National Reference Laboratory and results showed 61 positive, 76 negative and 6 equivocal.
- Epi classification is as follow: 276 (77.1%) confirmed cases (lab confirmed 61, clinically confirmed 64, epi-linked 151), 76 (29.7%) negative, and 6 (2.3%) 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.

Acute Flaccid Paralysis (Suspected Polio)

- Zero case was reported.
- Cumulatively, since epi week 1, seven (7) cases have been reported.
Neonatal Tetanus
- Zero case was reported
- Cumulatively, since epi week 1, four (4) clinically diagnosed cases have been reported

Viral Hemorrhagic Diseases
Ebola Virus Disease (EVD)
- Zero alert was reported

Lassa fever
- Four (4) suspected cases were reported from Grand Bassa (3), Nimba (1) Counties
- Specimens were collected for all and tested; 1 positive, 3 negative
- Cumulatively, since epi week 1, Ninety (90) suspected cases have been reported
  - Proportion of suspected cases with sample collected 100% (n=90)
  - Proportion of suspected cases with specimen tested 100% (n=90)
  - Laboratory confirmed: 40% (n=36)
  - Case fatality rate in confirmed cases: 44.4% (n=16/36)
  - Epi classification is as follows: 36 labs confirmed and 54 not a case

Yellow fever
- Eight (8) suspected cases were reported from Grand kru (3), Rivercess (2), Bong (1), Maryland (1), Lofa (1)
  - Specimen were collected and tested: 7 negatives, 1 pending
- Cumulatively, since epi week 1, twenty-nine (29) suspected cases have been reported of which 24 negative and 5

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

Meningitis
- One (1) suspected case was reported from Grand Cape Mount County
  - Specimen was collected and tested negative
- Cumulatively, since epi week 1, seventeen (17) suspected cases have been reported
### Events of Public Health Importance

#### Maternal Mortality
- Two (2) deaths were reported from Montserrado County
- Causes of deaths: Post-partum hemorrhage (2)
- Reporting site: health facilities 2 (100%)
- Cumulatively, since epi week 1, Thirty-nine (39) deaths have been reported

#### Neonatal Mortality
- Eighteen (18) deaths were reported from Montserrado (12), Nimba (2), Maryland (2), Margibi (1), Grand Kru (1)
- Causes of deaths: Birth asphyxia (9), Neonatal sepsis (7) and Preterm (2)
- Reporting sites: health facilities 17 (94.4%), Community 1(5.6%)
- Cumulatively, since epi week 1, one-hundred and twenty-three (123) deaths have been reported

#### Other Reportable Diseases

##### Animal Bites (Human Exposure to Rabies)
- Forty-two (42) suspected cases were reported from Montserrado (19), Maryland (6), Nimba (6), Grand Kru (3), Grand Gedeh (3), Margibi (2), Rivercess (1), Bong (1), Sinoe (1)
- Cumulatively, since Epi week one, 318 suspected cases have been reported

##### Acute Bloody Diarrhea (Suspected Shigellosis)
- Ten (10) suspected cases were reported from Sinoe (3), Lofa (2), Margibi (2), Grand Gedeh (1), Grand Cape Mount (1), Gbarpolu (1)
  - Five (5) specimens were collected and 2 tested: 1 positive, 1 negative and 3 pending
- Cumulatively, since epi week 1, seventy-five (75) cases have been reported, 2 tested positive and 23 negatives

##### Severe Acute Watery Diarrhea (Suspected Cholera)
- Two cases were reported from Bong and Nimba Counties
  - One specimen was collected and pending laboratory confirmation
- Cumulatively, since epi week 1, fourteen (14) cases have been reported

##### Unexplained death
- Zero case was reported
- Cumulative, since epi week 1, one (1) case has been reported
Points of Entry

- Zero IDSR alert detected and verified across the points of entry
- A total of 4,883 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 9, 2020

<table>
<thead>
<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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<td>36</td>
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</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, 71 ongoing events are being monitored through WHO Health Emergencies Program in the African Region. Key events highlighted during the week include the following:

- Coronavirus in Algeria, Nigeria and Senegal
- Lassa fever in Benin
- Lassa fever in Nigeria
- Ebola virus disease in Democratic Republic of the Congo
- Humanitarian crisis in Cameroon

Source: WHO Week 9 Bulletin on Outbreaks and Other Emergencies
Outbreaks

Lassa fever

District 3A & B, Grand Bassa County
♦ No new confirmed case reported
  ♦ A total of 54 contacts line listed, 45 completed and 9 under follow up
  ♦ No case in isolation
♦ From January 1, 2020 to date, 15 confirmed cases have been recorded
  ♦ 12 alive
  ♦ 3 confirmed deaths (CFR 20%)
♦ Since the declaration of the outbreak in August 2019, twenty-six (26) confirmed cases including 4 deaths have been reported

Suakoko District, Bong County
♦ No new confirmed case reported
  ♦ A total of 216 contacts line listed, 200 completed and 16 under follow-up
♦ From January 1, 2020 to date, 16 confirmed cases have been recorded
  ♦ 7 alive
  ♦ 9 confirmed deaths (CFR 56%)
♦ Since declaration of the outbreak in August 2019, twenty-four (24) confirmed cases including 11 deaths have been reported

Commonwealth District, Montserrado County
♦ No new confirmed case reported as of March 4, 2020
♦ All contacts have completed their follow up
  ♦ From January 1, 2020 to date, two confirmed cases have been recorded
  ♦ CFR 50%
♦ Since the declaration of the outbreak in November 2019, four (4) confirmed cases have been reported

Sannquelleh-Mah District, Nimba County
♦ One confirmed case was reported on March 3, 2020
  ♦ The case expired
♦ From January 1 to date, two confirmed cases have been recorded

Measles Update
♦ Seventy-eight (78) epi linked cases including 1 laboratory confirmed were reported from 4 Counties (Grand Kru-59), Sinoe -5, Nimba-14 and Mont-1
♦ Cumulatively, 229 suspected cases have been recorded including 28 laboratories confirmed
  ♦ Grand Kru (10)
  ♦ Sinoe (8)
  ♦ Nimba (4)
  ♦ Montserratado (3)
  ♦ Gbarpolu (3)

Epi-classification
♦ Laboratory confirmed (28), clinically confirmed (26), epi-linked (170), discarded (7) and pending (1)

Vaccination Status among laboratory confirmed
♦ Vaccinated (20)
♦ Not vaccinated (4)
♦ Unknown (4)

Age Distribution of Among Laboratory Confirmed

<table>
<thead>
<tr>
<th>Age</th>
<th># Cases</th>
<th>Percentage(%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 1 year</td>
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</tr>
<tr>
<td>1-4 years</td>
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<td>5-9 years</td>
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<td>10-14 years</td>
<td>12</td>
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<tr>
<td>≥ 15 years</td>
<td>8</td>
<td>28.6</td>
</tr>
<tr>
<td>Total</td>
<td>28</td>
<td>100</td>
</tr>
</tbody>
</table>

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

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 9 report, Liberia, 2020

<table>
<thead>
<tr>
<th>Counties</th>
<th>No. of Expected Health Districts</th>
<th>Acute Flaccid Paralysis (Suspected Polio)</th>
<th>Acute Bloody Diarrhoea (Shigellosis)</th>
<th>Severe Acute Watery Diarrhoea (Cholera)</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 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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D = Dead  
A = Alive
For comments or questions, please contact

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**Ministry of Health**

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J. S. Sesay

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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.