Figure 1: Public Health Events Reported during this week

- **Human Exposure to Rabies**: 50
- **Measles**: 25
- **Lassa Fever**: 14
- **Neonatal Death**: 12
- **Acute Bloody Diarrhea**: 8
- **Yellow Fever**: 5
- **Maternal Death**: 2
- **Acute Flaccid Paralysis**: 1
- **Cholera**: 1

**Suspected Cases**
**Samples Collected**

**Keynotes and Events of Public Health Significance**

- A total of 120 events of public health importance including 17 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 5, 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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**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

☞ Twenty-five (25) suspected cases were reported from Sinoe (11), Grand Kru (3), River Gee (3), Grand Gedeh (2), Nimba (2), Rivercess (1), Margibi (1), Bong (1), and Lofa (1) Counties
  
  o Seventeen (17) specimens were collected, 8 positive, 4 negative and 5 pending

☞ Vaccination status among suspected cases
  
  o Vaccinated 20 (80%), not vaccinated 4 (16%) and Unknown 1 (4%)

☞ Age distribution among suspected cases:
  
  o 1–4 years: 7 (28%), ≥5 years: 18 (72%)

☞ Cumulatively, since epi week 1, eighty-four (84) suspected cases have been reported. Of the total, 57 have been tested by the National Reference Laboratory and results showed 13 positive, 40 negative and 2 equivocal.

☞ Epi classification is as follow: 50 (60%) confirmed cases (lab confirmed 13, clinically confirmed 27, epi-linked 0), (48%) 40 negative, and (2.4%) 2 indeterminate
  
  o Of the 40 samples tested negative for measles, 18 tested for rubella and results showed 12 positive 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 – 5, 2020](image)

Acute Flaccid Paralysis (Suspected Polio)

☞ One suspected case was reported from River Gee County

☞ Cumulatively, since epi week 1, four (4) suspected cases have been reported

Neonatal Tetanus

☞ One case was reported from Maryland County

☞ Cumulatively, since epi week 1, two (2) clinically diagnosed cases have been reported
Viral Hemorrhagic Diseases

Ebola Virus Disease (EVD)

Zero alert was reported

Lassa fever

Fourteen (14) suspected cases were reported from Bong 12 (including 2 deaths), Montserrado 1 (death) and Grand Bassa (1) Counties
  o Specimens were collected for all and tested and results showed 6 positive, 4 negative and 4 pending

Cumulatively, since epi week 1, sixty-three (63) suspected cases have been reported
  o Proportion of suspected cases with sample collected 100% (n=63)
  o Proportion of suspected cases with specimen tested 100% (n=59)
  o Laboratory confirmed: 30
  o Case fatality rate in confirmed cases: 40%
  o Epi classification is as follows: 30 lab confirmed, 29 not a case and 4 pending

Yellow fever

Five (5) suspected cases reported from Grand Kru (3), Maryland (1), Rivercess (1) Counties
  o Specimens were collected for all of which 3 negative and 2 pending

Cumulatively, since epi week 1, thirteen (13) suspected cases have been reported of which 11 negative and 2 pending

Monkeypox

One suspected case was reported from Lofa County. No specimen was collected

Cumulatively, since epi week 1, three (3) suspected cases have been reported

Meningitis

One suspected case was reported from Grand Bassa County
  o Specimen was collected and tested negative

Cumulatively, since epi week 1, ten (10) suspected cases have been reported including one (1) confirmed

Events of Public Health Importance

Maternal Mortality

Two (2) deaths were reported from Montserrado (1) and Grand Kru (1) Counties

Causes of deaths: eclampsia (2)

Reporting site: health facilities 1 (50%); Community 1(50%)

Cumulatively, since epi week 1, nineteen (19) deaths have been recorded
Neonatal Mortality

- Twelve (12) deaths were reported from Montserrado (8), Nimba (3) and Lofa (1) Counties
- Causes of deaths: birth asphyxia (9) and neonatal sepsis (3)
- Reporting sites: health facilities 12 (100%)
- Cumulatively, since epi week 1, fifty-four (54) deaths have been recorded

Other Reportable Diseases

Animal Bites (Human Exposure to Rabies)

- Fifty (50) suspected cases reported from Montserrado (19), Bong (8), Maryland (7), Grand kru (3), Lofa (3), Margibi (2), Nimba (2), Rivercess (2), Grand Cape Mount (2), Sinoe (1), and Grand Bassa (1) Counties
- Cumulatively, since Epi week one, 164 suspected cases have been recorded

Acute Bloody Diarrhea (Suspected Shigellosis)

- Eight (8) suspected cases reported from Sinoe (2), Montserrado (2), Lofa (1), Gbarpolu (1), Margibi (1), and Grand Gedeh (1) Counties
  - Three (3) specimens were collected and pending confirmation
- Cumulatively, since epi week 1, thirty-eight (38) cases have been recorded, one tested positive and 11 negative

Severe Acute Watery Diarrhea (Suspected Cholera)

- One suspected case reported from Nimba County
  - Specimen was collected and pending confirmation
- 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 5, 2020

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

- Measles in Seychelles
- Yellow fever in Uganda
- Ebola virus disease in Democratic Republic of the Congo
- Lassa fever in Liberia
- Humanitarian crisis in Cameroon

Outbreaks

Lassa fever

**District 3A & B, Grand Bassa County**

- No new confirmed case reported
  - A total of 45 contacts line listed and follow up
  - One suspected case currently 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**

- One new confirmed case reported February 4, 2020
  - A total of 167 contacts line listed under follow-up
  - Two confirmed cases 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 6, 2020
- Seventeen contacts line listed for this new case

Source: WHO Week 5 Bulletin on Outbreaks and Other Emergencies
Total contacts under follow up 49
- From January 1, 2020 to date, three confirmed cases have been recorded
- Since the declaration of the outbreak in November 2019, five (5) confirmed cases have been reported
  - CFR 60%

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
- 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
- One new case reported
- A total of 9 suspected cases including 4 lab confirmed recorded
- All reported cases were treated
- Routine immunization coverage is 59%

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

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
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 5 report, Liberia, 2020

<table>
<thead>
<tr>
<th>Counties</th>
<th>No. of Expected Health District Reported</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>
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<td><strong>Total Weekly</strong></td>
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| Cumulative Reported | **4**                      | **0**                                    | **8**                                 | **0**                                    | **164**                                          | **63**     | **5**   | **84**     | **0**              | **10**            | **19**          | **54**              | **2**        | **0**     | **0**       | **0**       | **0**           |      |                                |                                           |                   |

| Cumulative Lab-confirmed | **0**                      | **0**                                    | **0**                                 | **0**                                    | **0**                                            | **0**     | **0**   | **0**     | **4**              | **10**            | **0**           | **0**              | **0**        | **0**     | **0**       | **0**       | **0**           |      |                                |                                           |                   |

D = Dead
A = Alive

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

**VISION**
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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.