Figure 1. Public Health Events Reported in Epi-week 37

Keynotes and Events of Public Health Significance
- A total of seventy-nine suspected cases of immediately reportable diseases and events including 14 deaths were reported from 15 counties
- Health Facility reporting completeness during the week is Ninety-eight percent (98%) and timeliness is Ninety-Five Percent (95%)
- Measles epidemic threshold reached in two counties
  - Seven cases in Suakoko district, Bong County
  - Four cases in Sanniquellie district, Nimba County
- National IDSRI Supervision commences in seven counties

Table 1. Weekly IDSRI Reporting Coverage, Liberia, Epi week 37, 2017

<table>
<thead>
<tr>
<th>County</th>
<th>Number of Expected Health Facility Report</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>23</td>
<td>23</td>
<td>23</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>Bong</td>
<td>55</td>
<td>54</td>
<td>54</td>
<td>98</td>
<td>98</td>
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<tr>
<td>Gbarpolu</td>
<td>15</td>
<td>15</td>
<td>15</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>Grand Bassa</td>
<td>33</td>
<td>33</td>
<td>33</td>
<td>100</td>
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<tr>
<td>Grand Cape Mount</td>
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<td>100</td>
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<tr>
<td>Grand Gedeh</td>
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<td>100</td>
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<td>19</td>
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<td>19</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>Lofa</td>
<td>59</td>
<td>59</td>
<td>59</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>Margibi</td>
<td>44</td>
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<td>100</td>
<td>100</td>
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<tr>
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<td>25</td>
<td>25</td>
<td>25</td>
<td>100</td>
<td>100</td>
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<td>283</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>Nimba</td>
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<td>100</td>
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<tr>
<td>Rivercess</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>River Gee</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>100</td>
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<tr>
<td>Sinoe</td>
<td>35</td>
<td>35</td>
<td>0</td>
<td>100</td>
<td>0</td>
</tr>
<tr>
<td>Liberia (National)</td>
<td>759</td>
<td>758</td>
<td>723</td>
<td>98</td>
<td>95</td>
</tr>
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</table>

Legend
- All counties submitted weekly IDSRI report on time except Sinoe county
- The national target for weekly IDSRI reporting is 80%
Vaccine Preventable Diseases

Measles

- Twenty-six suspected cases were reported from Bong (9), Montserrado (5), Nimba (5), Grand Kru (2), Sinoe (2), Lofa (1), Margibi (1) and Grand Bassa (1) Counties
- Of the 26 suspected cases reported this week, 8 (31%) were reported to have been previously vaccinated, 14 (53%) had unknown vaccination status and 4 (15%) were not vaccinated
- Eleven (42%) of the suspected cases were <5 years and 15 (58%) were ≥5 years of age
- Cumulatively, since Epi week one, 1,089 suspected cases have been reported, of which 924 were tested: 155 (16.8%) positive, 719 (77.8%) negative, 50 (5.4%) equivocal. One hundred sixty-five of the suspected cases were compatible and epi-linked. Of the total 769 equivocal and negative cases, 746 (97%) samples have been tested for rubella, of which, 318 (42.6%) were positive

Public Health Actions

- Case management have been initiated for all suspected cases
- Samples were collected from 17 suspected cases and sent to the National Reference Laboratory for confirmation
- Active case search has been initiated in communities in which epidemic threshold has been reached

Figure 3. Weekly trend of suspected cases of Measles reported, Liberia, Epi weeks 1 – 37, 2016 & 2017

Acute Flaccid Paralysis (Suspected Polio)

- Zero cases of Acute Flaccid Paralysis were reported during the week
- Cumulatively, since Epi-week one, 70 AFP cases have been reported, of which, 68 (97%) have tested negative for poliovirus and 2 (3%) are pending laboratory confirmation.
Neonatal Tetanus
- Zero cases of Neonatal tetanus were reported during the week.
- Cumulatively, since Epi-week one, 13 clinically diagnosed cases have been reported.

Viral Hemorrhagic Diseases

Ebola Virus Disease (EVD)
- Zero EVD alerts were reported during the week.
- Cumulatively, since Epi-week one, 305 EVD alerts have been reported, all of which have tested negative by PCR.

Lassa fever
- One suspected case of Lassa Fever was reported from Grand Bassa County. Blood sample has been collected, sent to the National Reference Laboratory, and results are awaited.
- Cumulatively, since Epi week one, 41 suspected cases have been reported, and samples were collected from all cases.
- Of the 41 samples, 7 have been confirmed positive by RT-PCR and ELISA-Antigen and 10 are negatives.
- Of the 7 confirmed cases, 4 deaths were reported. The case fatality rate among confirmed cases is 57%.

Yellow fever
- Two suspected cases were reported from Grand Gedeh County.
- Samples were collected from the two suspected cases, sent to the National Reference laboratory, and results are awaited.
- Cumulatively, since Epi-week one, 143 suspected cases have been reported, all of which tested negative.

Meningitis
- Zero suspected cases of meningitis were reported during the week.
- Cumulatively, since Epi week one, 47 suspected cases have been reported.
- Of the 47 suspected cases, 31 (including 13 deaths) were reported as part of an outbreak in three counties (Grand Bassa, Montserrat and Sinoe), with Neisseria meningitidis serogroup C confirmed in 13 cases, including 11 deaths (case fatality rate 85%).

Events of Public Health Importance

Maternal Mortality
- Three maternal deaths were reported from Montserrat (1), River Gee (1) and Grand Gedeh (1) Counties.
- Reported causes of deaths were: Postpartum hemorrhage, Eclampsia, and Acute Asthmatic attack.
- All of the deaths were reported to have occurred in the health facility.
- Cumulatively, since Epi-week one, 178 maternal deaths have been reported (see Table 3 for causes of death).
Table 3. Causes of Maternal Death, Liberia, Epi weeks 1 - 37, 2017 (n=178)

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<thead>
<tr>
<th>Maternal Death</th>
<th>Number</th>
<th>Percentage</th>
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<tr>
<td>Post-partum hemorrhage</td>
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<td>34.3</td>
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<td>Anemia</td>
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<td>14.3</td>
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<tr>
<td>Sepsis</td>
<td>24</td>
<td>13.7</td>
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<tr>
<td>Eclampsia</td>
<td>19</td>
<td>11</td>
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<tr>
<td>Ruptured uterus</td>
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<tr>
<td>Unknown</td>
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<tr>
<td>Cardiac pulmonary failure</td>
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<td>3.4</td>
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<tr>
<td>Congestive Heart failure</td>
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<tr>
<td>Pre-eclampsia</td>
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<tr>
<td>Abruptio placenta</td>
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</tr>
<tr>
<td>Multiple organ failure</td>
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<tr>
<td>Obstructed labor</td>
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<tr>
<td>Dissimilated intravascular coagulation</td>
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<tr>
<td>Amniotic fluid embolism</td>
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<tr>
<td>Respiratory Distress</td>
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<tr>
<td>Umbilical Hernia (Omphalocele)</td>
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<tr>
<td>Spinal shock</td>
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<tr>
<td>Prolong Labour</td>
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<tr>
<td>Hepatitis B</td>
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<tr>
<td><strong>Total</strong></td>
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</table>

Table 5. Cumulative Maternal Deaths Reported by Counties, Liberia, Epi weeks 1 - 37, 2017

<table>
<thead>
<tr>
<th>County</th>
<th>Annual Live birth</th>
<th>Current week</th>
<th>Cumulative</th>
<th>% of Cumulative Maternal deaths</th>
<th>Annualized Maternal Mortality Ratio/100,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grand Bassa</td>
<td>11494</td>
<td>37</td>
<td>21</td>
<td>12</td>
<td>594</td>
</tr>
<tr>
<td>Maryland</td>
<td>7048</td>
<td>37</td>
<td>8</td>
<td>6</td>
<td>369</td>
</tr>
<tr>
<td>Bomi</td>
<td>4361</td>
<td>37</td>
<td>8</td>
<td>5</td>
<td>596</td>
</tr>
<tr>
<td>Grand Kru</td>
<td>3002</td>
<td>37</td>
<td>6</td>
<td>3</td>
<td>649</td>
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<td>Sinoe</td>
<td>5308</td>
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<td>7</td>
<td>5</td>
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<td>357</td>
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<tr>
<td>Margibi</td>
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<td>37</td>
<td>13</td>
<td>7</td>
<td>388</td>
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<tr>
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<td>37</td>
<td>21</td>
<td>13</td>
<td>285</td>
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<td>14354</td>
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<td>11</td>
<td>8</td>
<td>249</td>
</tr>
<tr>
<td>Rivercess</td>
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<td>37</td>
<td>2</td>
<td>1</td>
<td>188</td>
</tr>
<tr>
<td>Gbarpolu</td>
<td>4323</td>
<td>37</td>
<td>4</td>
<td>2</td>
<td>301</td>
</tr>
<tr>
<td>Grand Cape Mount</td>
<td>6588</td>
<td>37</td>
<td>1</td>
<td>1</td>
<td>49</td>
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<td>Grand Gedeh</td>
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<td>8</td>
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<td>400</td>
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<td><strong>Liberia</strong></td>
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<td><strong>37</strong></td>
<td><strong>178</strong></td>
<td><strong>100</strong></td>
<td><strong>321</strong></td>
</tr>
</tbody>
</table>

1 Number of live birth is at 4.3% of the estimated population for 2017 (Source: EPI/MoH)
Neonatal Mortality

Eleven neonatal deaths were reported from Lofa (3), Montserrado (2), River Gee (2), Rivercess (1), Bong (1), Sinoe (1) and Grand Bassa (1) Counties.

- Reported causes of death were:
  - Preterm (3)
  - Respiratory Distress (2)
  - Birth asphyxia (2)
  - Neonatal sepsis (1)
  - Neonatal tetanus (1)
  - Anemia (1)

- Ten deaths were reported to have occurred at health facility and one in the community.

- Cumulatively, since Epi-week one, 423 neonatal deaths have been reported.

Table 5. Cumulative Neonatal Deaths Reported by Counties, Liberia, Epi weeks 1 - 37 2017

<table>
<thead>
<tr>
<th>County</th>
<th>Annual Live birth</th>
<th>Current Week</th>
<th>Cumulative Neonatal deaths</th>
<th>% of Cumulative Neonatal deaths</th>
<th>Annualized Neonatal Mortality Rate/1000</th>
</tr>
</thead>
<tbody>
<tr>
<td>River Gee</td>
<td>3707</td>
<td>37</td>
<td>30</td>
<td>7</td>
<td>26.3</td>
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<tr>
<td>Maryland</td>
<td>7048</td>
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<td>47</td>
<td>11</td>
<td>21.7</td>
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<tr>
<td>Sinoe</td>
<td>5308</td>
<td>37</td>
<td>23</td>
<td>5</td>
<td>14.1</td>
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<tr>
<td>Grand Kru</td>
<td>3002</td>
<td>37</td>
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<td>3</td>
<td>11.9</td>
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<tr>
<td>Montserrado</td>
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<td>37</td>
<td>149</td>
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<tr>
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<td>17289</td>
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<td>42</td>
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<td>7.9</td>
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<td>12</td>
<td>3</td>
<td>11.3</td>
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<tr>
<td>Grand Gedeh</td>
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<td>37</td>
<td>16</td>
<td>4</td>
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<tr>
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<td>12</td>
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<tr>
<td>Grand Cape Mount</td>
<td>6588</td>
<td>37</td>
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<td>0</td>
<td>1.0</td>
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<tr>
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<td>180242</td>
<td>37</td>
<td>423</td>
<td>100</td>
<td>7.6</td>
</tr>
</tbody>
</table>
Human Exposure to Animal Bites (Suspected Rabies)

- Twenty-seven cases of animal bites were reported from Grand Bassa (6), Montserrado (5), Nimba (3), Bong (3), Cape Mount (3), River Gee (2), Rivercess (2), Margibi (2) and Maryland (1) Counties
- Cumulatively, since Epi-week one, 991 cases of animal bites have been reported.

Bloody Diarrhea (Shigellosis)

- Seven cases of bloody diarrhea were reported from Margibi (3), Sinoe (2), and Gbarpolu (2) Counties.
- Cumulatively, since Epi-week one, 191 cases of bloody diarrhea have been reported.
- Stool specimens have been collected from a total of 88 cases including 7 in the current week
- A total of 78 samples have been tested, 4 rejected due to poor sample quality, and 6 pending laboratory testing. Of the 78 tested, shigella was isolated through culture from 14 (17.9%) samples and no growth seen in 64 (82.1%) of the samples.

Severe Acute Watery Diarrhea (Cholera)

- Two suspected cases of cholera were reported from Montserrado County; stool specimens were collected from both cases
- Cumulatively, since Epi-week one, 131 suspected cases of cholera have been reported, including 4 deaths attributable to cholera.
- A total of 50 stool samples have been collected including two in the current week and sent to the National Reference Laboratory. Of these, 37 samples have been tested and 13 are pending. Vibrio cholera has been isolated from two of the samples while there have been no growth in 35 samples.

Public Health Measures

National level

- Liberia Intermediate Field Epidemiology Training Program workshop 4, of cohort 1 is ongoing
- National IDSRR Supportive Supervision commences in 7 counties (Montserrado, Sinoe, Rivercess, RiverGee, Grand Gedeh, Grand Kru and Maryland). A two-member national team has been deployed in each county along with WHO field team. They are expected to focus on Emergency Operations Centers (EOCs) in each county, Points of Entry (POEs) surveillance, community, health facility, district, and county levels IDSRR implementation activities.
- Weekly meeting with the laboratory to ensure data verification and harmonization
- Work with Counties to determine response state of preparedness (lab specification for CSF collection and transportation, medical supplies and IPC)
- Follow up with counties to conduct maternal deaths investigation, revision of forms and implementation of recommendations made
- Counties are encouraged to conduct health education for all public health diseases based on risk
- Counties are encouraged to update their cholera preparedness plans and review existing stocks of supplies for prepositioning

Notes

- **Completeness** refers to the proportion of expected weekly IDSRR reports received (target: ≥80%)
- **Timeliness refers to the** proportion of expected weekly IDSRR reports received by the next level on time (target: ≥80%). Time requirement for weekly IDSRR 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 discarded 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 maternal 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 37 and cumulative reports, Liberia, 2017

<table>
<thead>
<tr>
<th>Counties</th>
<th>No. of Health Districts reported</th>
<th>Acute Flaccid Paralysis (Polio)</th>
<th>Bloody Diarrhoea (Shigellosis)</th>
<th>Severe Acute Watery Diarrhoea (Cholera)</th>
<th>Human Exposure to Animals 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>VHF (including EVD)</th>
<th>Yellow Fever</th>
<th>Other Diseases/Events</th>
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<th>Bloody Diarrhoea (Shigellosis)</th>
<th>Severe Acute Watery Diarrhoea (Cholera)</th>
<th>Human Exposure to Animals 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>VHF (including EVD)</th>
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**Note:** A = Alive  
D = Dead

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