



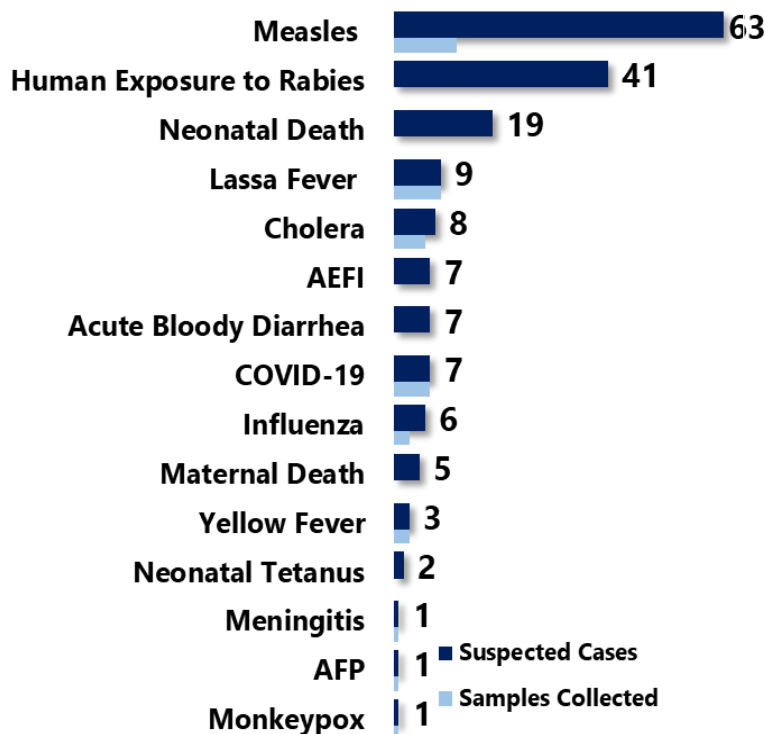
Liberia IDSR Epidemiology Bulletin

Epi-week 46 (November 14-20, 2022)

Country Population: 5,104,413 | Volume 17 Issue 46 | November 14 – 20, 2022 | Data Source: CSOs from 15 Counties and Laboratory

Highlights

Figure 1: Public Health Events Reported



Keynotes and Events of Public Health Significance

- ♦ A total of **180 events** of public health importance including **25 deaths** were reported
- ♦ **Completeness and timeliness** of health facility reports were both **100%** and **99%** respectively
- ♦ **Ongoing Lassa fever** outbreak in **4** Counties
- ♦ **Ongoing Measles** outbreak in **13** Counties
- ♦ **Seven new confirmed COVID-19 cases** were reported from 1 county

*Adverse Events Following Immunization/Adverse Drug Reaction

Reporting Coverage

Table 1: Health Facility Weekly IDSR Reporting Coverage, Liberia, Epi-week 46, 2022

County	Expected Reports From HF*	Reports Received	Received on Time	Completeness (%)	Timeliness (%)
Bomi	26	26	26	100	100
Bong	57	57	57	100	100
Gbarpolu	16	16	16	100	100
Grand Bassa	36	36	36	100	100
Grand Cape Mount	34	34	34	100	100
Grand Gedeh	24	24	24	100	100
Grand Kru	23	23	22	100	96
Lofa	66	66	66	100	100
Margibi	68	68	68	100	100
Maryland	27	27	27	100	100
Montserrado	326	326	324	100	99
Nimba	88	88	88	100	100
Rivercess	21	21	20	100	95
River Gee	20	20	20	100	100
Sinoe	37	37	37	100	100
Liberia	869	869	865	100	99

869(100%)
Health facilities reported IDSR data

93 (100%)
Health districts reported IDSR data

865(99%)
Health facilities reported timely IDSR data

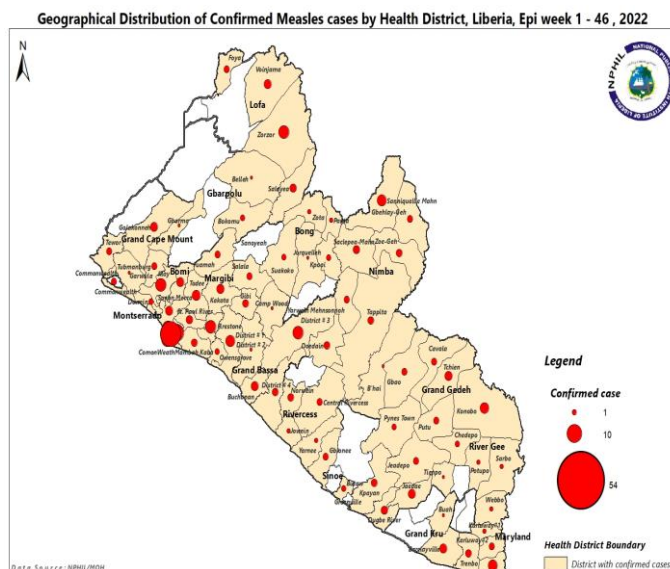
- ♦ The national target for weekly IDSR reporting is 80%. Health facility timeliness is monitored at the health district level
- ♦ All counties submitted weekly IDSR reports to the national level on time

Legend: ≥80 <80

Vaccine-Preventable Diseases

Measles

- ✍ Sixty-three (63) suspected cases were reported: Bong (11), Nimba (11), Montserrado (10), Margibi (10), Grand Bassa (5), Maryland (4), Lofa (3), Grand Kru (2), Rivercess (2), Gbarpolu (2), Bomi (1), Grand Gedeh (1), and River Gee (1) Counties
- ✍ Twelve (12) specimens collected and pending testing
- ✍ Vaccination status among suspected cases
 - Vaccinated: (35) 55%
 - Not vaccinated: (18) 29%
 - Unknown: (10) 16%
- ✍ Age distribution among suspected cases
 - < 5 years: (39) 62%
 - ≥ 5 years: (24) 38%
- ✍ Cumulatively, eight thousand three hundred forty-seven (8,347) suspected cases have been reported including 84 deaths
 - (7,763) 93% confirmed:
 - ✓ Laboratory confirmed: (488/7,763) 6%
 - ✓ Clinically compatible: (580/7,763) 7%
 - ✓ Epidemiologically linked: (6,695/7,763) 86%
 - Non-measles discarded: 584
 - ✓ 58 tested positive for Rubella
- ✍ Proportion of samples collected: (1,343/8,347) 16%
- ✍ Proportion of samples tested: (1,072/1,343) 80%
- ✍ CFR: (84/7,763) 1.1%



Geographical distribution of Measles Cases by epidemiological classification, health district, Liberia, Epi-week 1 – 46, 2022

Outbreak

Measles: (Situation update from 13th December 2021- 20th November 2022)

Montserrado County: Commonwealth, Bushrod, Somalia Drive, St. Paul, Central Monrovia, Todee, and Careysburg Districts

- ✍ Ten (10) new cases were reported from Bushrod (5), Commonwealth (3), and Central Monrovia (2) Districts
- ✍ A total of 4,197 cases have been confirmed including sixty-five (65) deaths
 - Median age 6 (1month-59years)
 - Not Vaccinated- (2,128/4,197) 51%
 - Vaccinated - (2,016/4,197) 48%
- ✍ CFR (65/4,197) 1.5%

Bong County: Suakoko, Jorquelleh, Salala, and Kokoyah Districts (Situation update from 20th December 2021- 20th November 2022)

- ✍ Eight (8) new cases were reported from Kokoyah (6), Jorquelleh (1), and Suakoko (1) Districts
- ✍ A total of 363 cases have been confirmed including two (2) deaths
 - Median age 8 (1 month - 38 years)
 - Vaccinated - (149/363) 41%
 - Not vaccinated - (114/363) 31%
 - CFR (2/363) 0.5%

Lofa County: Voinjama, Foyah, Zorzor, and Salayea Districts (Situation update from 21st January- 20th November 2022)

- ✍ Two (2) new cases were reported from Zorzor District
- ✍ A total of 181 cases have been confirmed



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- Median age: 10 (2 months-46years)
- Vaccinated: (165/181) 91%
- Not vaccinated: (8/181) 4%

Nimba County: Gbehlay-Geh, Sacleapea-Mah, Zoe-Geh, Tappita, Yarwin Mehnsonnoh, and Sanniquellie-Mah Districts (Situation update from 20th January-20th November, 2022).

- 👉 Eleven (11) new cases were reported from Gbehlay-Geh (5), Sanniquellie-Mah (3), Sacleapea-Mal (1) and Tappita (1) Districts
- 👉 A total of 716 cases have been confirmed including one death
 - Median age 7 (2 months- 48years)
 - Not Vaccinated: (442/716) 62%
 - Vaccinated: (161/716) 22%
 - CFR (1/716) 0.1%

Maryland County: Harper, Karluway II, and Pleebo Districts (Situation update from 1st February- 20th November 2022)

- 👉 Four (4) new cases were reported from Pleebo District
- 👉 A total of 260 cases have been confirmed
 - Median age 7 (7 months-48 years)
 - Vaccinated: (29/260) 11%
 - Not Vaccinated: (55/260) 21%

Grand Bassa County: District #1, District #2, District # 3 A & B and Buchanan Districts (Situation update from 22nd April -20th November 2022)

- 👉 Five (5) new cases were reported from District # 2 District
- 👉 A total of 712 cases have been confirmed including 7 deaths
 - Median age 7 (1 month-45 years)
 - Vaccinated: (267/712) 38%
 - Not Vaccinated: (322/712) 45%
 - CFR (7/712) 1%

Bomi County: Klay, Senjeh, and Suehn Mecca Districts (Situation update from 14th March-20th November 2022)

- 👉 One (1) new case was reported from Dewoin District
- 👉 A total of 70 cases have been confirmed including 5 deaths
 - Median age 7 (1 month-48 year)
 - Vaccinated: (26/70) 37%
 - Not Vaccinated: (21/70) 30%
 - CFR (5/70) 7%

Grand Kru: Barclayville and Dorbor Districts (Situation update from 14th March – 20th November 2022)

- 👉 One (1) new case was reported from Dorbor District
- 👉 A total of 147 cases have been confirmed
 - Median age 9 (53 months-18 years)
 - Vaccinated: (111/147) 76%
 - Not Vaccinated: (33/147) 22%

Rivercess: Doedain and Jowein Districts (Situation update from 16th March – 20th November 2022)

- 👉 One (1) new case was reported from Doedain District
- 👉 A total of 76 confirmed cases have been confirmed including 1 death
 - Median age 5 (6 months -36 years)



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- Vaccinated: (18/76) 23%
- Not Vaccinated: (30/76) 39%
- CFR: (1/76) 1.3%

Margibi County: Firestone, Gibi, Kakata, and Mamba Kaba Districts (Situation update from 21st February–20th November 2022)

- 👉 Nine (9) new cases were reported from Firestone (6), and Kakata (2) Districts
- 👉 A total of 568 cases have been confirmed
 - Median age 6 (4 months - 67 years)
 - Vaccinated: (280/568) 49%
 - Not Vaccinated: (173/568) 30%

Grand Cape Mount County: Gola Konneh, District (Situation update from 10th March –20th November 2022)

- 👉 No new case was reported
- 👉 A total of 117 cases have been confirmed including 3 deaths
 - Median age 12 (2 months – 45 years)
 - Vaccinated: (102/117) 87%
 - Not Vaccinated: (13/117) 11%
 - CFR: (3/117) 3%

Grand Gedeh County: Tchien, Konobo, B'hai, and Gbao Districts (Situation update from 10th March–20th November 2022)

- 👉 One (1) new case was reported from Konobo, and Gbao Districts
- 👉 A total of 133 cases have been confirmed
 - Median age 6 (6 months-35 years)
 - Vaccinated (48/133) 36%
 - Not Vaccinated: (45/133) 33%

Sinoe: Gblonee, Dugbeh River, Kpanyan, Jaedae and Jedepo Districts (Situation update from 19th May – 20th November 2022)

- 👉 No new case was reported
- 👉 A total of 143 cases have been confirmed
 - Median age 6 (2 months-38 years)
 - Vaccinated: (71/143) 49.7%
 - Not Vaccinated (20/143) 13.9%

Public Health Response

I Coordination

- 👉 Ongoing monitoring of measles surveillance data with the provision of feedback to relevant stakeholders and developmental partners
- 👉 Measles case studies ongoing with support from AFENET/CDC-Liberia
- 👉 MSF in collaboration with NPHIL and MOH jointly conducted an assessment of treatment Capacity and Surveillance for measles in Bomi County from November 7th -11th, 2022

II. Epidemiological Surveillance

- 👉 Active case search and line listing of cases ongoing

III. Case Management

- 👉 Bokomu District Health Team with support from County treated 60 children in affected communities in Gbarpolu County from October 19th -21st 2022.
- 👉 Isolation and treatment of cases ongoing



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IV. Immunization

- ☞ Conducted a three (3) day mini measles campaign in affected and surrounding communities in Bokomu District, Gbarpolu County and vaccinated 146 children, age group 6-59 months from October 19-21, 2022

V. Laboratory

- ☞ Four hundred eighty-seven (487) cases have been confirmed by the laboratory from 62 health districts in 15 counties

VI. Risk Communication and Community Engagement

- Conducted a community engagement meeting with affected communities in Bokomu District, Gbarpolu County.
- Community engagement and health education continue in affected and surrounding communities

VII. Challenges

- Lacked essential medications and medical supplies for case management
- Delay lab results from NPHRL

Next steps

- Specimen collection kit stock out in Nimba Count
- NPHIL/partners to procure essential drugs for case management
- Develop national Measles preparedness and response guide.
- Develop and validate the national Measles and Rubella Surveillance guide.
- Develop and validate Measles SOPs.
- Continue social mobilization

Acute Flaccid Paralysis (AFP)

- ☞ One case was reported from Grand Kru County
- ☞ Specimen was collected and pending shipment
- ☞ Cumulatively, one hundred-one (101) cases have been reported
 - 100 specimens collected
 - 85 tested and 15 pending testing
 - 69 negative
 - 16 NPENT

Neonatal Tetanus

- ☞ Two (2) cases were reported Bong and Grand Gedeh Counties
- ☞ Cumulatively, forty-nine (49) clinically diagnosed cases reported

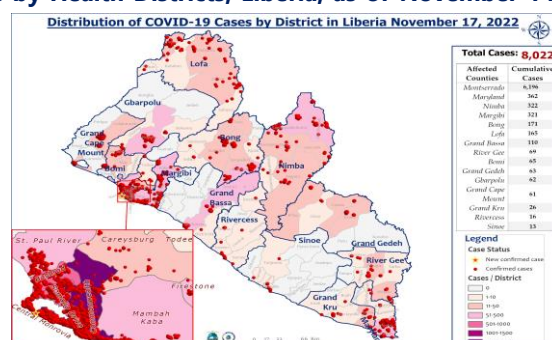
Influenza-Like Illnesses

Coronavirus Disease (COVID-19)

Outbreak

- ☞ Seven (7) new confirmed cases were reported from Montserrado County
- ☞ A total of one thousand one hundred fourteen (1,114) confirmed cases have been reported since epi week 1
- ☞ Cumulatively, eight thousand twenty-two (8,022) confirmed cases including 294 deaths
 - 601 healthcare workers
- ☞ A total of 17,827 contacts have been generated

Figure 2: Geographical Distribution of Laboratory Confirmed COVID-19 Cases by Health Districts, Liberia, as of November 14-20, 2022





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- 1,772 healthcare workers

Public Health Actions

- 👉 IMS coordination meeting ongoing.
- 👉 Surveillance activities including active case search and case investigation ongoing in the affected counties using WHO interim guidelines
- 👉 Case management ongoing for confirmed cases
- 👉 Compulsory testing among outgoing travelers as required by the country of destination ongoing

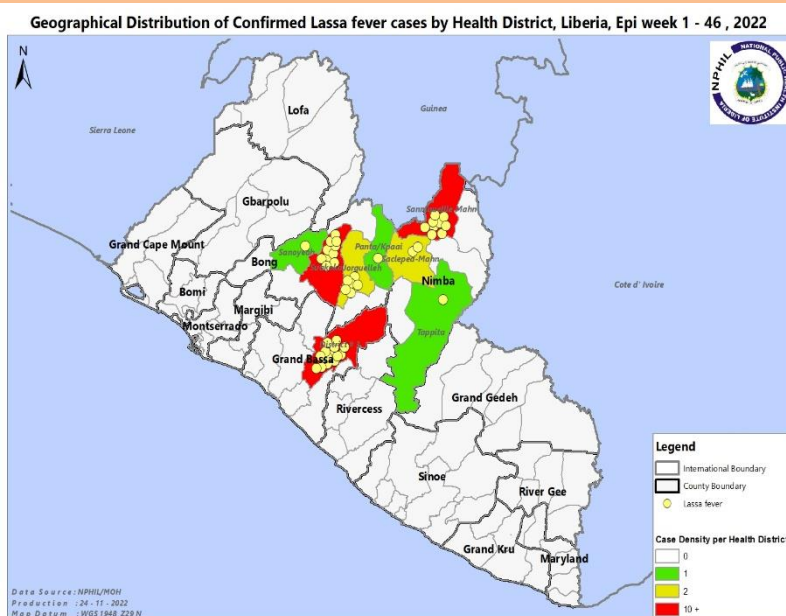
Influenza Like Illnesses

- 👉 Six (6) suspected cases were reported from Grand Bassa (3) and Montserrado (3) Counties
- 👉 Three specimens were collected and pending testing
- 👉 Cumulatively, seventy-two (72) cases have been reported and pending testing

Viral Hemorrhagic Diseases

Lassa fever

- 👉 Nine (9) suspected cases were reported from Bong (4), Grand Bassa (2), Nimba (2), and River Gee (1) Counties
- 👉 Nine specimens were collected: 6 tested positive, 1 negative and 2 pending testing
- 👉 Cumulatively, one hundred eighty-two (182) suspected cases have been reported including 32 deaths
 - Sixty-five (65) confirmed cases were recorded including 20 deaths
 - One hundred nine (109) negatives
 - Case Fatality Rate: (20/65) 31%
 - Proportion of suspected cases with sample collected (181/182) 99%
 - Proportion of suspected cases with sample tested (174/181) 95%
 - 3 specimens rejected (inadequate specimen, wrong packaging, wrong collection tube)
 - 1 not collected



Geographical distribution of confirmed Lassa fever cases by Health District, Liberia, Epi-week 1-46, 2022

Outbreak

Lassa fever disease: (Sitrep update as of November 20, 2022)

- 👉 Six new confirmed cases including one death
- 👉 Eighty-eight (88) contacts under 21 days' follow-up
- 👉 Cumulatively, sixty-five (65) laboratory-confirmed cases including 20 deaths reported (CFR=31%)

Nimba: Saclepea-Mah & Sanniquellie-Mah Districts

- 👉 Two new confirmed cases were reported

Case 1

- A 28-year-old male from Airfield Community, Saclepea City, Saclepea-Mah District



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- Onset of symptom was November 7, 2022 and presented with fever $> 38.5^{\circ}\text{C}$, joint pain, headache, stomach pain, vomiting and weakness.
- He sought treatment at Saclepea Health Center on November 14, 2022, suspected of Lassa fever, and isolated on the same day. Specimen was collected on November 14, 2022 and sent to National Public Health Reference Laboratory on November 15, 2022.
- Specimen was tested Lassa fever positive on November 21, 2022 and result released on the same day.
- A total of 15 contacts including 10 healthcare workers line listed from the confirmed case
- The case is currently alive and in isolation

Case 2

- A 22-year-old female from Cassava Estate, Ganta City, Sanniquellie-Mah District.
- Onset of symptom was November 17, 2022 and presented with fever $> 38.5^{\circ}\text{C}$, chest pain, stomach pain, vomiting and generalized weakness for two days.
- The case sought treatment at Ganta United Methodist Hospital on November 18, 2022. She was suspected of Lassa fever on 20th November, 2022, isolated, and specimen collected on the same day.
- On the 21st of November, 2022, specimen was sent to the National Public Health Reference Laboratory
- The case expired on November 20, 2022 in isolation and safe and dignified burial was conducted on November 21, 2022.
- Specimen was tested Lassa fever positive on November 22, 2022 and results released on November 23, 2022
- A total of 27 contacts including 22 healthcare workers have been identified and line listed

👉 Cumulative confirmed cases: Sixteen (16)

- CFR (10/16) 63%

👉 Districts with confirmed cases since this year:

- Sanniquellie-Mah: 12 cases (8 deaths)
- Saclepea-Mah: 3 cases (1 death)
- Tappita: 1 case (dead)

👉 Cumulatively, 279 contacts including 175 HCWs have been generated since this year

- Fifty-two (52) contacts currently under follow-up

Public Health Measures

👉 NPHIL and MOH providing technical support to the county

- Health workers and visitors are encouraged to enhance IPC practices by regular washing of hands

Grand Bassa: District #3A&B

👉 One new confirmed case reported

- A 7-year-old male from Compound #3, District #3A
- Onset of symptom was November 16, 2022, presented with high fever, nausea weakness, headache and was tested negative for Malaria.
- November 17, 2022: Case sought treatment at LAC Hospital, suspected of Lassa fever, isolated and specimen collected, and ribavirin initiated.
- November 18, 2022: Specimen sent to the National Public Health Reference Laboratory (NPHRL) and tested positive on November 21, 2022 and results released on the same day.
- A total of five (5) contacts were identified and line listed
- The case is currently alive and in isolation

👉 Cumulative confirmed cases: Twenty-six (26)

- CFR (6/26) 23%
- All reported from District #3 A&B



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👉 Cumulatively, 119 contacts including two healthcare workers were generated since this year

- Twelve (12) contacts are currently under follow-up

Public Health Measures

👉 NPHIL and MOH providing technical support to the county

- Health workers and visitors are encouraged to enhance IPC practices by regular washing of hands
- Limited community engagement

Bong County: Suakoko District

👉 Three new confirmed cases were reported

Case 1

- An 11 year-old-male from Phebe Airstrip, Suakoko District
- Onset of symptom was November 1, 2022, and presented with fever, headache, swollen neck, and weakness
- November 15, 2022: The case sought treatment at Phebe Hospital, suspected of Lassa fever, isolated, specimen collected, and ribavirin initiated
- The specimen was sent to National Public Health Reference Laboratory on November 18, 2022, tested Lassa fever positive on November 21, 2022 and results released on the same day.
- A total of ten (10) contacts have been identified and line listed
- The case is currently alive and in isolation

Case 2

- An 11 year-old-male from Phebe Airstrip, Suakoko District. The case is a contact to above case.
- Date of symptom was November 9, 2022 and presented with fever, headache, nausea, and weakness.
- On November 15, 2022, the case sought treatment at Phebe Hospital, suspected of Lassa fever, isolated, specimen collected, and ribavirin initiated.
- The specimen was sent to National Public Health Reference Laboratory on November 18, 2022, tested positive on November 21, 2022 and results released on the same day.
- The case is currently alive and in isolation
- A total of ten (10) contacts identified and line listed

Case 3

- A 33-year-old male from Gbonota, Suakoko District.
- Onset of symptom was November 11, 2022 and presented with fever, headache, weakness, and abdominal pain.
- On November 15, 2022, the case sought treatment at Phebe Hospital, suspected of Lassa fever, isolated and specimen collected, and ribavirin initiated on the same day. On November 18, the specimen was sent NPHRL, tested positive on November 21, 2022 and results released on the same day.
- A total of 4 contacts have been identified and line listed
- The case is alive and currently in isolation.

👉 Cumulative confirmed cases: Twenty-two (22)

- CFR: (4/22) 18%

👉 Districts that have reported confirmed cases since this year:

- Suakoko District: 17 cases (3 deaths)
- Jorquellah District: 3 cases (1 death)
- Sanoyea District: 1 case
- Kpaai District: 1 case

👉 Cumulatively, 214 contacts including 129 HCWs have been recorded

- Twenty-four (24) contacts currently under follow-up



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Public Health Measures

- 👉 Risk communication interventions
 - Daily health talk in all health facilities on priority diseases
 - Airing of LF preventive and control messages
- 👉 Case Management
 - Confirmed case is isolated and being managed
- 👉 Surveillance
 - Active case search ongoing in the affected health districts
 - Heighten surveillance in all affected communities and districts
 - Daily situational reports are shared regularly at the national level

Yellow fever

- 👉 Three (3) suspected cases were reported from Grand Gedeh County
- 👉 Three specimens were collected and pending testing
- 👉 Cumulatively, eighty-five (85) suspected cases have been reported
 - Proportion of suspected cases with samples collected (76/85) 89%
 - Proportion of suspected cases with samples not collected (9/85) 11%
- 👉 Samples collected and tested
 - Tested negative (59/76) 78%
 - Pending testing (12/76) 16%
 - Not transported (5/76) 7%

Ebola Virus Disease

- 👉 Zero suspected case was reported
- 👉 Cumulatively, one (1) suspected case has been reported

Diarrheal Diseases

Acute Bloody Diarrhea (Suspected Shigellosis)

- 👉 Seven (7) cases were reported from Lofa (4), Bong (1), Grand Bassa (1), and Gbarpolu (1) Counties
- 👉 No specimens were collected
- 👉 Cumulatively, four hundred twenty-three (423) suspected cases reported
- 👉 Two hundred twelve (212) specimens were collected
- 👉 One hundred sixty-four (164) received by the lab
 - 11 rejected (inadequate specimen, wrong packaging)
 - 19 specimens discarded
 - 134 tested
 - 133 negative
 - 1 positive

Severe Acute Watery Diarrhea (Suspected Cholera)

- 👉 Eight (8) cases were reported from River Gee (3), Nimba (2), Bong (1), Bomi (1), and Margibi (1) Counties
- 👉 Six (6) specimens were collected and pending testing
- 👉 Cumulatively, three hundred forty-three (343) suspected cases reported
 - One hundred ninety-six (196) specimens collected
 - One hundred twenty-two (122) received by the lab
 - 5 rejected (inadequate specimen, wrong packaging, specimen not label)
 - 40 specimens discarded
 - 77 tested negative



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Other Reportable Diseases

Animal bite (Human Exposure to Rabies)

- ✍ Forty-one (41) animal bite cases were reported: Bong (7), Maryland (7), Grand Gedeh (4), Montserrado (4), Bomi (3), Grand Bassa (3), Grand Kru (3), Gbarpolu (2), Nimba (2), Sinoe (2), Rivercess (2), Lofa (1), and River Gee (1) Counties
 - Persons received Post Exposure Prophylaxis (PEP) (14/41) 34%
- ✍ Cumulatively, one thousand eight hundred ninety-three (1,893) animal bite cases reported
 - Dog bites account for 100%
 - 1-4 doses (PEP) administered to (361/1,893) 19% of patients

Public Health Actions

- ✍ Ongoing monitoring and follow-up of cases
- ✍ Quarantined (5/41) 10% of suspected rabid dogs

Meningitis

- ✍ One suspected case reported from Nimba County
- ✍ Specimen was collected and tested negative
- ✍ Cumulatively, thirty-one (31) suspected cases reported with one (1) confirmed

Monkeypox

- ✍ One suspected case was reported from Grand Bassa County
- ✍ Specimen was collected and pending testing
- ✍ Cumulatively, fifty-five (55) suspected cases reported with three (3) confirmed

Events of Public Health Importance

Maternal Mortality

- ✍ Five (5) deaths were reported from Montserrado (2), Bomi (1), Nimba (1), and Maryland (1) Counties
- ✍ Reported causes: Postpartum hemorrhage (2), sepsis (2) and pending review (1)
- ✍ Reported sites:
 - Health facility: (4) 80% and community (1) 20%
- ✍ Cumulatively, two hundred fifty-three (253) deaths have been reported
 - Proportion of deaths reviewed (49/253) 19%
 - Proportion of community deaths (25/253) 10%
 - Proportion of community deaths reviewed: (8/25) 32%

Neonatal Mortality

- ✍ Nineteen (19) deaths were reported: Montserrado (8), Margibi (2), Bomi (1), Bong (1), Gbarpolu (1), Grand Gedeh (1), Maryland (1), Nimba (1), Lofa (1), River Gee (1), Sinoe (1), Counties
- ✍ Reported causes: Birth asphyxia (10), neonatal sepsis (4), tetanus (2), pending review (2) and preterm (1)
- ✍ Reported sites:
 - Health facility: (19) 100%
- ✍ Cumulatively, six hundred ninety-nine (699) deaths have been reported
 - The proportion of deaths reviewed (79/699) 11%
 - Proportion of community deaths (32/699) 5%
 - Proportion of deaths reviewed from the community (8/32) 25%

Adverse Events Following Immunization (AEFI)/Adverse Drug Reaction (ADR)

- ✍ Seven (7) cases were reported: Margibi (6), and Lofa (1) Counties
- ✍ Related vaccine:



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- COVID-19 (6/7) 86%
- Penta (1/7) 14%
- 📁 Cumulatively, five hundred fifty-five (555) events were reported with (394/555) 71% related to COVID-19
- 📁 Proportion of COVID-19 vaccine
 - J&J vaccine – (283/394) 71%
 - AstraZeneca – (6/394) 2%
 - Pfizer – (105/394) 27%
- 📁 Proportion of other vaccine-related events – (161/555) 29%

Public Health Actions

- 📁 All events were investigated, categorized as non-serious AEFI, and symptomatically treated
- 📁 Active case search and community engagement ongoing

Border Surveillance Update

📁 A total of 5,447 travelers were recorded for the week with incoming travelers accounting for 53% (2,872/5,447)

Table 2: Border activity at the PoE for Incoming and Outgoing Travelers, Liberia, Epi week 46, 2022

Type of Ports	Point of Entry	Weekly total	Arrival	Departure	Total travelers with YB	Yellow Book Damage	Card Replaced	Travelers Vaccinated against YF & Issued book	Alerts detected/ Verified	COVID-19 Reactive	Evidence of COVID-19 vaccination card/certificate
Airport	James S. Paynes	54	32	22	54	0	0	0	0	0	42
	Robert Int'l Airport	4109	2209	1900	4089	16	0	4	0	0	4087
Seaport	Freeport of Monrovia	200	100	100	200	0	0	0	0	0	200
	Buchanan Port	124	62	62	124	0	0	0	0	0	124
Land Crossing	Bo Water Side	543	295	248	524	8	0	11	0	0	536
	Ganta	146	64	82	126	12	8	0	0	0	62
	Yekepa	158	78	80	151	7	2	0	0	0	79
	Loguatu	113	32	81	100	13	0	0	0	0	57
Total		5,447	2,872	2,575	5,368	56	10	15	0	0	5,187

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

Public Health Measures

National level

- 📁 Data harmonization conducted in Montserrado County
- 📁 Completed the validation EBS framework
- 📁 MSF in collaboration with NPHIL and MOH jointly conducted treatment capacity assessment of measles in Bomi County
- 📁 Operational Activity
 - Continued support for operational activities ongoing

County-level

Surveillance

- Publication of situational reports
- Active case search ongoing in affected and surrounding communities



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Case Management

- Administration of PEP and ribavirin
- Management of measles cases ongoing

Appendix

Summary of Immediately Reportable Diseases, Conditions, and Events by County

			Bomi	Bong	Gbarpolu	Grand Bassa	Grand Cape Mount	Grand Gedeh	Grand Kru	Lofa	Margibi	Maryland	Montserrado	Nimba	Rivercess	River Gee	Sinoe	Total Weekly	Cumulative Reported	Cumulative Lab-confirmed	
No. of Expected Health District			4	9	5	8	5	6	5	6	4	6	7	6	6	6	10	93			
No. of Health District Reported			4	9	5	8	5	6	5	6	4	6	7	6	6	6	10	93			
Vaccine Preventable Diseases	Acute Flaccid Paralysis (Suspected Polio)	A	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	100	0	
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Measles	A	1	11	2	5	0	1	2	3	10	4	10	11	2	1	0	63	8,347	488	
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	77	0	
	Neonatal Tetanus	A	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2	46	0
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	
Yellow fever	A	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	3	82	0	
	D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Viral Hemorrhagic Fever	Dengue fever	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
	Ebola Virus Disease	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Lassa fever	A	0	4	0	2	0	0	0	0	0	0	0	2	0	1	0	9	150	45	
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	20	
Influenza-Like Illnesses	COVID-19	A	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	7	8,021	8	
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	294	
	Influenza Like Illnesses	A	0	0	0	3	0	0	0	0	0	0	3	0	0	0	0	6	72	0	
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Diarrheal Diseases	Acute Bloody Diarrhoea (Shigellosis)	A	0	1	1	1	0	0	0	4	0	0	0	0	0	0	0	7	423	1	
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Severe Acute Watery Diarrhoea (Cholera)	A	1	1	0	0	0	0	0	0	1	0	0	2	0	3	0	8	343	0	
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Events of Public Health Importance	Maternal Mortality	D	1	0	0	0	0	0	0	0	0	1	2	1	0	0	0	5	248		
	Neonatal Mortality	D	1	1	1	0	0	1	0	1	2	1	8	1	0	1	1	19	699		
	Adverse Events Following Immunization (AEFI)	A	0	0	0	0	0	0	0	1	6	0	0	0	0	0	0	7	555	0	
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Unexplained Cluster of Health Events/Disease	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Reportable Diseases	Monkeypox	A	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	55	2	
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Tuberculosis	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Human Exposure to Rabies (Suspected Human Rabies)	A	3	7	2	3	0	4	3	1	0	7	4	2	2	1	2	41	1,893	0	
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
	Meningitis	A	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	31	1	
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Neglected Tropical Diseases	Unexplained Cluster of deaths	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Buruli Ulcer	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yaws	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL			7	26	6	15	0	10	6	10	19	13	34	20	4	7	3	180	21179	859	

D = Dead A = Alive

Notes

- 👉 **Completeness** refers to the proportion of expected weekly IDSR reports received (target: $\geq 80\%$)
- 👉 **Timeliness** refers to the proportion of expected weekly IDSR reports received by the next level on time (target: $\geq 80\%$). The 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: $\geq 2/100,000$)
- 👉 **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 been 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

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Data sources

Data and information are 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.