



# Liberia IDSR Epidemiology Bulletin

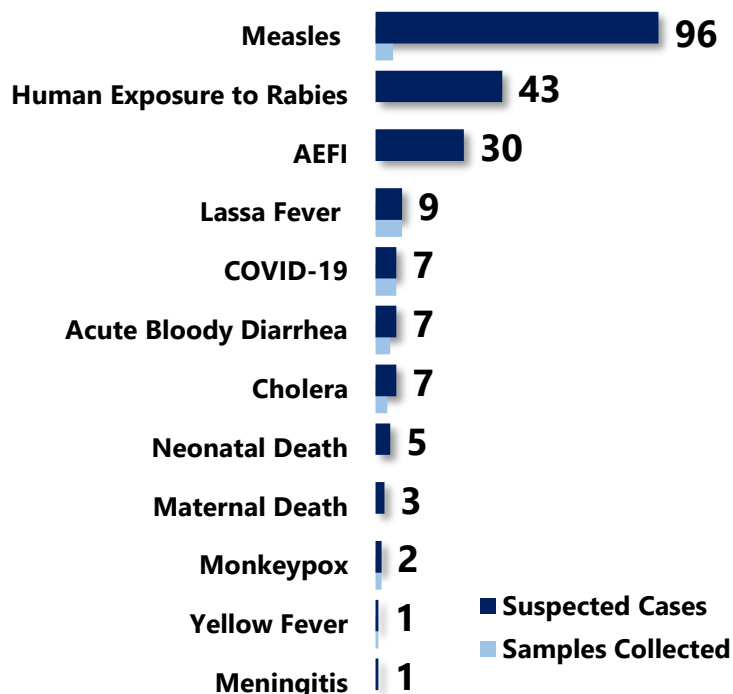
Epi-week 40 (October 3-9, 2022)

Country Population: 5,104,413 | Volume 17 Issue 40 | Oct. 3-9, 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 211 events of public health importance including 8 deaths were reported
- ♦ Completeness and timeliness of health facility reports were both 100%
- ♦ Ongoing Lassa fever outbreak in 3 Counties
- ♦ Ongoing Measles outbreak in 13 Counties
- ♦ Seven new confirmed COVID-19 cases in 2 Counties

\*Adverse Events Following Immunization/Adverse Drug Reaction

## Reporting Coverage

Table 1: Health Facility Weekly IDSR Reporting Coverage, Liberia, Epi-week 40, 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	23	100	100
Lofa	66	66	66	100	100
Margibi	68	68	68	100	100
Maryland	27	27	27	100	100
Montserrado	326	326	326	100	100
Nimba	88	88	88	100	100
Rivercess	21	21	21	100	100
River Gee	20	20	20	100	100
Sinoe	37	37	37	100	100
<b>Liberia</b>	<b>869</b>	<b>869</b>	<b>869</b>	<b>100</b>	<b>100</b>

869(100%)  
Health facilities reported IDSR data

93 (100%)  
Health districts reported IDSR data

869(100%)  
Health facilities reported timely IDSR data

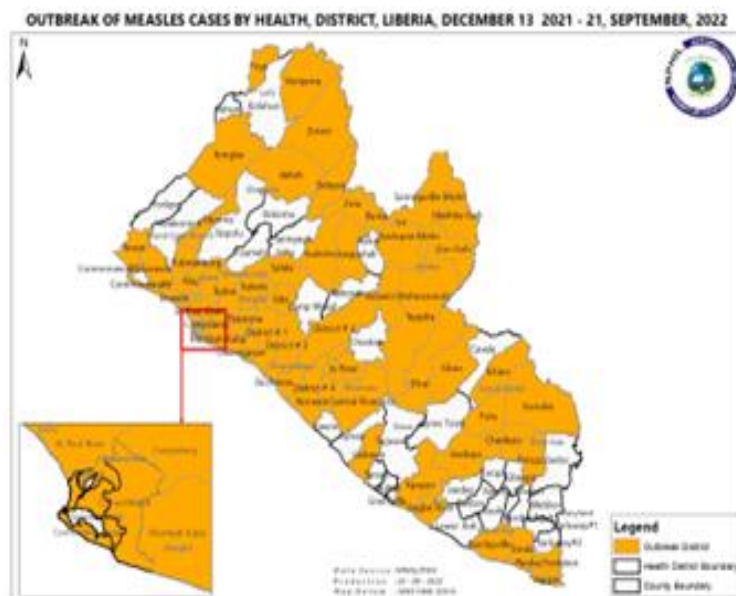
- ♦ The national target for weekly IDSR reporting is 80%. Health facility timeliness is monitored at the health district level
- ♦ All counties submitted weekly IDSR reports to the national level on time

Legend: ≥80 <80

## Vaccine-Preventable Diseases

### Measles

- ✎ Ninety-six (96) suspected cases were reported: Montserrado (54), Grand Bassa (8), Maryland (8), Sinoe (6), Grand Cape Mount (6), Bong (4), Margibi (4), Grand Gedeh (2), Grand Kru (2), Rivercess (1), and River Gee (1) Counties.
- ✎ Six (6) specimens collected and pending testing
- ✎ Vaccination status among suspected cases
  - Vaccinated: (49) 51%
  - Not vaccinated: (47) 49%
- ✎ Age distribution among suspected cases
  - < 5 years: (51) 53%
  - ≥5 years: (45) 47%
- ✎ Cumulatively, seven thousand seven hundred forty (7,740) suspected cases have been reported including 80 deaths
  - (7,203) 93% confirmed:
    - ✓ Laboratory confirmed: (457/7,203) 6%
    - ✓ Clinically compatible: (558/7,203) 8%
    - ✓ Epidemiologically linked: (6,188/7,203) 86%
  - Non-measles discarded: (537/7,740) 7%
    - ✓ 40 tested positive for Rubella
- ✎ Proportion of samples collected: (1,201/7,740) 16%
- ✎ Proportion of samples tested: (994/1,201) 83%
- ✎ CFR: (80/7,203) 1.1%



## Outbreak

### Measles: (Situation update from 13<sup>th</sup> December- 9<sup>th</sup> October 2022)

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

- ✎ Fifty-four (54) cases were reported from Somalia Drive (28), Bushrod (18), Commonwealth (2), Todee (2), Central Monrovia (2), and St. Paul (2) Districts
- ✎ A total of 4,018 cases have been confirmed including sixty-five (65) deaths
  - Median age 6 (1month-59years)
  - Not Vaccinated- (2,050/4,018) 51%
  - Vaccinated - (1,928/4,018) 48%
- ✎ CFR (65/4,018) 1.6%

#### Bong County: Suakoko, Zota, Jorquelleh, Salala, and Panta Districts (Situation update from 20<sup>th</sup> December 2021-9<sup>th</sup> October 2022)

- ✎ One (1) new case was reported from Salala
- ✎ A total of 405 cases have been confirmed including two (2) deaths
  - Median age 8 (1 month - 38 years)
  - Vaccinated - (116/405) 29%
  - Not vaccinated - (105/405) 26%
  - CFR (2/405) 0.5%

#### Lofa County: Voinjama, Foyah, Zorzor, and Salayea Districts (Situation update from 21st January- 9<sup>th</sup> October 2022)

- ✎ No new case was reported
- ✎ A total of 166 cases have been confirmed



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- Median age: 10 (2 months-46years)
- Vaccinated: (158/166) 95%
- Not vaccinated: (3/166) 1.8%

## **Nimba County: Gbehlay-Geh, Sacleapea-Mah, Zoe-Geh, Tappita, Yarwin Mehnsonnoh, and Sanniquellie-Mah Districts (Situation update from 20<sup>th</sup> January-9<sup>th</sup> October 2022)**

- 👉 No new case was reported
- 👉 A total of 659 cases have been confirmed
  - Median age 7 (2 months- 48years)
  - Not Vaccinated: (407/659) 62%
  - Vaccinated: (147/659) 22%

## **Maryland County: Harper and Pleebo Districts (Situation update from 1<sup>st</sup> February- 9<sup>th</sup> October 2022)**

- 👉 Seven (7) new cases were reported from Pleebo (6), and Harper (1) District
- 👉 A total of 218 cases have been confirmed
  - Median age 7 (7 months-48 years)
  - Vaccinated: (27/218) 12%
  - Not Vaccinated: (53/218) 24%

## **Grand Bassa County: District #1, District #2, Owensgrove, and Buchanan Districts (Situation update from 22<sup>nd</sup> April -9<sup>th</sup> October 2022)**

- 👉 Eight (8) new cases were reported from District #4 (5), Buchanan (2), and District #3A&B (1) Districts
- 👉 A total of 588 cases including three (3) deaths have been confirmed
  - Median age 7 (1 month-45 years)
  - Vaccinated: (218/588) 37%
  - Not Vaccinated: (240/588) 41%
  - CFR (3/588) 0.5%

## **Bomi County: Klay District (Situation update from 14<sup>th</sup> March-12<sup>th</sup> October 2022)**

- 👉 No new case was reported
- 👉 A total of 70 cases have been confirmed including 5 deaths
  - Median age 7 (1 month-48 year)
  - Vaccinated: (31/70) 44%
  - Not Vaccinated: (19/70) 27%
  - CFR (5/70) 7%

## **Grand Kru: Trehn and Barclayville Districts (Situation update from 14<sup>th</sup> March – 9<sup>th</sup> October 2022)**

- 👉 One (1) new case was reported from Barclayville District
- 👉 A total of 106 cases have been confirmed
  - Median age 9 (53 months-18 years)
  - Vaccinated: (76/106) 72%
  - Not Vaccinated: (32/106) 30%

## **Rivercess: Central C, Timbo, Doedain, and Yarnee Districts (Situation update from 16<sup>th</sup> March – 9<sup>th</sup> October 2022)**

- 👉 Two (1) new cases were reported from Doedain District
- 👉 A total of 36 confirmed cases have been confirmed including 1 death
  - Median age 5 (6 months -36 years)
  - Vaccinated: (13/36) 36%
  - Not Vaccinated: (6/36) 17%
  - CFR: (1/36) 3%



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## Margibi County: Firestone, Gibi, Kakata, and Mamba Kaba Districts (Situation update from 21<sup>st</sup> February–9<sup>th</sup> October 2022)

- 👉 Four (4) new cases were reported from Kakata (3), and Gibi (1) District
- 👉 A total of 569 cases have been confirmed
  - Median age 6 (4 months - 67 years)
  - Vaccinated: (287/569) 50%
  - Not Vaccinated: (168/569) 30%

## Grand Cape Mount County: Gola Konneh, Tewor and Commonwealth-C District (Situation update from 10<sup>th</sup> March –9<sup>th</sup> October 2022)

- 👉 Six (6) new cases were reported from Gola Konneh (3), Tewor (2), and Commonwealth-C (1) District
- 👉 A total of 97 cases have been confirmed including 3 deaths
  - Median age 12 (2 months – 45 years)
  - Vaccinated: (82/97) 85%
  - Not Vaccinated: (13/97) 13%
  - CFR: (3/97) 3%

## Grand Gedeh County: Tchien, Konobo, Bhai, and Gbao Districts (Situation update from 10<sup>th</sup> March–9<sup>th</sup> October 2022)

- 👉 One (1) new case was reported from Cavalla (1) District
- 👉 A total of 106 cases have been confirmed
  - Median age 6 (6 months-35 years)
  - Vaccinated (32/106) 30%
  - Not Vaccinated: (39/106) 37%

## Sinoe: Gblonee, Dugbeh River, Kpanyan, and Jedepo Districts (Situation update from 19<sup>th</sup> May - 9<sup>th</sup> October 2022)

- 👉 Six (6) new cases were reported from Jaedae District
- 👉 A total of 148 cases have been confirmed
  - Median age 6 (2 months-38 years)
  - Vaccinated: (79/148) 53%
  - Not Vaccinated (20/148) 14%

## Public Health Response

### I Coordination

- 👉 Ongoing monitoring of measles surveillance data with the provision of feedback to relevant stakeholders and developmental partners

### II. Epidemiological Surveillance

- 👉 Active case search and line listing of cases

### III. Case Management

- 👉 Isolation and treatment of cases

### IV. Immunization

- 👉 Gibi District, Margibi County conducted a mini measles campaign and vaccinated 76 children ages 9-59 months on September 29, 2022

### V. Laboratory

- 👉 Three hundred ninety-eight (398) cases have been confirmed by the laboratory from 62 health districts in 15 counties



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## VI. Risk Communication and Community Engagement

- 👉 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

- 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)

- 👉 Zero case reported
- 👉 Cumulatively, ninety-four (94) cases have been reported
  - 61 tested negatives
  - 33 pending testing

## Neonatal Tetanus

- 👉 Zero case reported
- 👉 Cumulatively, forty-two (42) clinically diagnosed cases reported

## Influenza-Like Illnesses

### Coronavirus Disease (COVID-19)

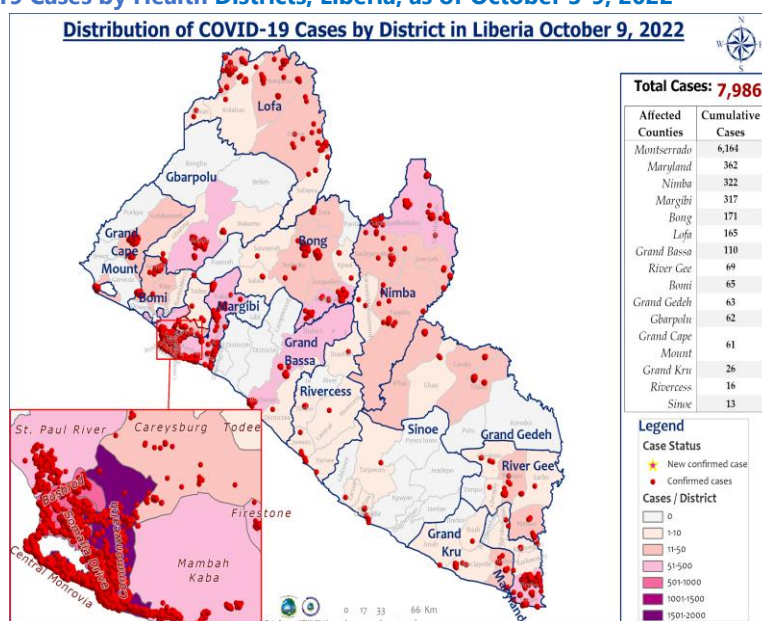
#### Outbreak

- 👉 Seven (7) new confirmed cases were reported from Montserrado (5), and Nimba (2) Counties
- 👉 A total of one thousand seventy-six (1,076) confirmed cases have been reported since epi week 1
- 👉 Cumulatively, seven thousand nine hundred eighty-six (7,986) confirmed cases, including 294 deaths
  - 601 healthcare workers
- 👉 A total of 17,827 contacts have been generated
  - 1,772 healthcare workers

## Public Health Actions

- 👉 Weekly IMS coordination meeting ongoing.
- 👉 Surveillance activities including active case search and case investigation on-going in the affected county using WHO interim guidelines

**Figure 2: Geographical Distribution of Laboratory Confirmed COVID-19 Cases by Health Districts, Liberia, as of October 3-9, 2022**







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- 👉 Case management ongoing for confirmed cases
- 👉 Compulsory testing among outgoing travelers as required by the country of destination ongoing

## Severe Acute Respiratory Illness (SARI)

- 👉 Zero case reported

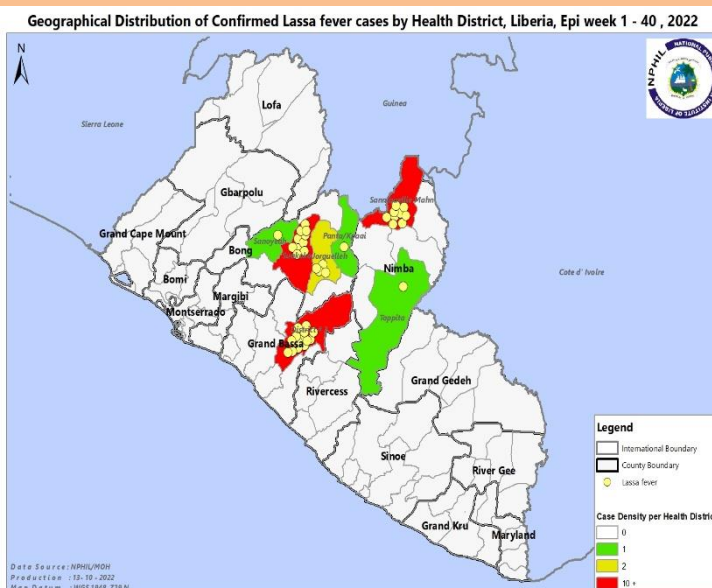
## Influenza

- 👉 Zero case was reported
- 👉 Cumulatively, thirty-four (34) cases have been reported

## Viral Hemorrhagic Diseases

### Lassa fever

- 👉 Nine (9) suspected cases were reported from Grand Bassa (5), and Bong (4) Counties
- 👉 9 specimens were collected and tested: 5 positive and 4 negatives
- 👉 Cumulatively, one hundred thirty-eight (138) suspected cases have been reported including 20 deaths
  - Forty-nine (49) confirmed cases were recorded including 15 deaths
  - Eighty-six (86) negatives
  - Case Fatality Rate: (15/49) 31%
  - Proportion of suspected cases with sample collected (137/138) 99%
  - Proportion of suspected cases with sample tested (135/137) 99%
    - 2 samples rejected
    - 1 not collected



Geographical distribution of confirmed Lassa fever cases by Health District, Liberia, Epi-week 1-40, 2022

## Outbreak

### Lassa fever disease: (Sitrep update as of October 9, 2022)

- 👉 Five new confirmed cases were reported from Grand Bassa and Bong Counties
- 👉 Cumulatively, 474 contacts generated and 136 under 21 days' follow-up
- 👉 Cumulatively, forty-nine (49) laboratory-confirmed cases including 15 deaths reported (CFR=31%)

### Grand Bassa: District #3A&B

- 👉 Four new confirmed cases reported from District 3A&B
  - **Case 1:** A 21-year-old male from Community Land, District 3A&B
  - Onset of symptom September 25, 2022. The case sought treatment at LAC Hospital on October 3, 2022 and presented with symptoms of high fever ( $>38.5^{\circ}\text{C}$ ), headache, weakness, diarrhea nausea, abdominal pain.
  - Specimen was collected October 3, 2022 and sent to the NPHRL on October 5, 2022.
  - Specimen got tested October 6, 2022 and results released to county same day.
  - A total of three (3) contacts line listed
  - **Case 2:** A 7-year-old male from Pono community, District 3A&B
  - Onset of symptom September 28, 2022. The case sought treatment at LAC hospital on October 3, 2022 and presented with symptoms high fever, weakness, vomiting and myalgia.
  - Specimen was collected October 3, 2022 and sent to the NPHRL on October 5, 2022.
  - Specimen got tested on October 6, 2022 and results released to county the same day.



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- A total of four (4) contacts line listed
- **Case 3:** A 55-year-old male from Come Back Hill Community, District 3A&B
- Onset of symptom October 4, 2022. The case sought treatment at LAC Hospital on October 6, 2022 and presented with symptoms high fever, weakness, headache, vomiting and myalgia
- Specimen collected October 8, 2022 and sent to the NPHRL on October 8, 2022.
- Specimen got tested October 10, 2022 and results released to county the same day.
- A total of six (6) contacts line listed
- **Case 4:** A 13-year-old female from Queensville Community
- Onset of symptom October 4, 2022. The case sought treatment at LAC Hospital on October 6, 2022 and presented with symptoms high fever ( $>38.5^{\circ}\text{C}$ ), weakness, Diarrhea, Nausea and loss of appetite
- Specimen collected October 8, 2022 and sent to the NPHRL on October 8, 2022.
- Specimen got tested October 10, 2022 and results released to county the same day.
- A total of six (6) contacts line listed
- 👉 Cumulatively confirmed cases: twenty (20)
  - CFR (6/20) 30%
- 👉 District that have reported confirmed cases since this year
  - District 3A&B
- 👉 Cumulatively, 97 contacts generated since this year
  - Sixty (60) contacts completed monitoring while thirty-seven (37) contacts under 21 days follow up

## Bong County: Suakoko District

- 👉 One new confirmed case was reported from Suakoko District
  - Case 1: A 19-year-old female from Phebe Airstrip Community
  - Onset of symptom September 29, 2022. The case sought treatment at Phebe Hospital on October 4, 2022 and presented with symptoms high fever ( $>38.5^{\circ}\text{C}$ ), weakness, Diarrhea, Nausea and loss of appetite
  - Specimen was collected October 4, 2022 and sent to the NPHRL on October 6, 2022
  - Specimen got tested October 10, 2022 and results released to the county same day
- 👉 Cumulatively confirmed cases: eighteen (18)
  - CFR: (3/18) 17%
- 👉 Districts that have reported confirmed cases since this year
  - Suakoko District: 14 cases (3 deaths)
  - Jorquellah District: 2 cases
  - Sanoyea District: 1 case
  - Kpaai District: 1 case
- 👉 Cumulatively, 184 contacts including 113 HCWs have been generated since this year
  - 174 contacts completed monitoring and 10 under 21 days follow up

## 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
  - Isolated, managed, and discharged cases
- 👉 Surveillance
  - Active case search ongoing in the affected health districts
  - Heighten surveillance in all districts
  - Daily situational reports are shared regularly at the national level

## Nimba: Sanniquellie-Mah District

- 👉 No new confirmed case was reported
- 👉 Cumulative confirmed cases: eleven (11)
  - CFR (7/11) 64%



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- 👉 Districts that have reported confirmed cases since this year
  - Sanniquellie-Mah: 10 cases (6 deaths)
  - Tappita: 1 case (dead)
- 👉 Cumulatively 193 contacts including 117 HCWs have been generated since this year
  - 104 contacts completed monitoring while 89 under 21 days follow up

## Public Health Measures

- 👉 NPHIL and MOH providing technical support to county
  - IPC assessment conducted to rein enforce IPC practices. Health workers encouraged to observe IPC practices
  - Limited community engagement

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- 👉 NPHIL and MOH providing technical support to county
  - IPC assessment conducted to rein enforce IPC practices. Health workers encouraged to observe IPC practices
  - Limited community engagement

## Yellow fever

- 👉 One (1) case was reported from Grand Cape Mount County
- 👉 One specimen was collected and pending testing
- 👉 Cumulatively, seventy (70) suspected cases have been reported
  - Proportion of suspected cases with sample collected (62/70) 89%
  - Proportion of suspected cases with sample tested (55/62) 89%
  - Samples pending testing (5/62) 8%
  - Samples not transported (2/62) 3%

## Diarrheal Diseases

### Acute Bloody Diarrhea (Suspected Shigellosis)

- 👉 Seven (7) suspected cases were reported from Sinoe (2), Grand Gedeh (2), Maryland (1), Grand Kru (1), and Bomi (1) Counties
- 👉 Five specimens were collected and not transported
- 👉 Cumulatively, three hundred seventy-four (374) suspected cases reported
- 👉 One hundred eighty-six (186) specimens collected; 142 received by the lab
  - 114 tested negatives
    - 1 positive (Grand Gedeh)
    - 10 rejected
    - 17 specimens not tested
    - 44 not transported

### Severe Acute Watery Diarrhea (Suspected Cholera)

- 👉 Seven (7) suspected cases were reported from Maryland (4), Rivercess (2), and Grand Gedeh (1) Counties
- 👉 Four (4) specimens were collected but not transported
- 👉 Cumulatively, two hundred eighty-two (282) suspected cases reported
  - 154 specimens collected; 100 received by the lab
    - 71 tested negatives
    - 5 rejected
    - 24 specimens not tested
    - 54 not transported





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## Other Reportable Diseases

### Animal bite (Human Exposure to Rabies)

- ✍ Forty-three (43) animal bite cases were reported: Montserrado (10), Grand Kru (6), Bong (6), Grand Bassa (3), Lofa (3), Margibi (3), Grand Gedeh (3), River Gee (3), Grand Cape Mount (2), Maryland (2), Rivercess (1), and Gbarpolu (1) Counties
- ✍ Persons received Post Exposure Prophylaxis (PEP) (13/43) 30%
- ✍ Cumulatively, one thousand six hundred sixty-six (1,666) animal bite cases reported
  - Dog bites account for 100%
  - 1-4 doses (PEP) administered to (307/1,666) 18% of patients

### **Public Health Actions**

- ✍ Procured 1,500 doses of PEP for distribution in all counties
- ✍ Ongoing monitoring and follow-up of cases
- ✍ Quarantined (3/41) 7% of suspected rabid dogs

### Meningitis

- ✍ One (1) case reported from Grand Bassa County
- ✍ No specimen was collected
- ✍ Cumulatively, twenty-seven (27) suspected cases reported
- ✍ One (1) confirmed

### Monkeypox

- ✍ Two (2) new suspected cases were reported from Montserrado County
- ✍ Two specimens were collected, 1 pending, 1 rejected
- ✍ Cumulatively, fifty (50) suspected cases reported

## Events of Public Health Importance

### Maternal Mortality

- ✍ Three (3) deaths were reported from Margibi, Grand Gedeh, and Montserrado Counties
  - Cause of death: Postpartum hemorrhage (2), Eclampsia (1)
- ✍ Reporting site:
  - All deaths occurred at the health facility
- ✍ Cumulatively, two hundred thirty-one (231) deaths have been reported
  - Proportion of deaths reviewed (49/231) 21%
  - Proportion of community deaths (22/231) 10%
    - Proportion of community deaths reviewed: (8/22) 36%

### Neonatal Mortality

- ✍ Five (5) deaths were reported: Grand Kru (2), Rivercess (1), Maryland (1), and Montserrado (1) Counties
  - Causes of death: Birth asphyxia (4), Preterm (1)
- ✍ Reporting site:
  - All deaths occurred at the health facility
- ✍ Cumulatively, six hundred twenty-two (622) deaths have been reported
  - The proportion of deaths reviewed (79/622) 13%
  - Proportion of community deaths (26/622) 4%
    - Proportion of deaths reviewed from the community (8/26) 31%

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

- ✍ Thirty (30) cases were reported: Grand Gedeh (9), Grand Kru (5), Grand Bassa (4), Rivercess (4), Grand Cape Mount (3), Lofa (2) Sinoe (2), and Maryland (1) Counties



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- Related vaccines:
  - COVID-19 (25/30) 83%
  - Penta-3 (5/30) 17%

👉 Cumulatively, four hundred sixty-four (464) events were reported with (319/464) 69% related to COVID-19

👉 Proportion of COVID-19 vaccine

- J&J vaccine – (237/319) 74%
- AstraZeneca – (6/319) 2%
- Pfizer – (76/319) 24%

👉 Proportion of other vaccine-related events – (145/464) 31%

## 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

**Table2: Border activity at the PoE for Incoming and Outgoing Travelers, Liberia, Epi week 40, 2022**

👉 A total of 5,976 travelers were recorded for the week with incoming travelers accounting for 54% (3,246/5,976)

Type of Ports	Point of Entry	Weekly total	Arrival	Departure	Total travelers with YB	Yellow Book Damage	Card Replaced	Vaccinated against YF & Issued	Alerts detected/ Verified	COVID-19 Reactive	Evidence of COVID-19 vaccination card/certificate
Airport	James S. Paynes	113	65	48	113	0	0	0	0	0	35
	Robert Int'l Airport	4088	2200	1888	4063	20	0	9	0	0	4076
Seaport	Freeport of Monrovia	184	92	92	184	0	0	0	0	0	184
	Buchanan Port	140	70	70	140	0	0	0	0	0	140
Land Crossing	Bo Water Side	551	340	211	529	22	0	0	0	0	70
	Ganta	560	348	212	533	27	0	0	0	0	68
	Yekepa	162	48	114	152	10	0	0	0	0	55
	Loguatu	174	79	95	160	14	0	0	0	0	66
<b>Total</b>		<b>5,972</b>	<b>3,242</b>	<b>2,730</b>	<b>5,874</b>	<b>93</b>	<b>0</b>	<b>9</b>	<b>0</b>	<b>0</b>	<b>4,694</b>

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

## Public Health Measures

### National level

- 👉 Providing technical, logistical, and financial support to counties
  - Production and publication of situational reports
- 👉 Operational Activity
  - Continued support for operational activities ongoing

### County-level

#### 👉 Surveillance

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

#### 👉 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	0	0	0	0	0	0	0	0	0	0	94	0	
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Measles	A	1	0	0	7	4	5	3	1	8	4	32	6	5	1	11	88	7,644	457	
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	77	0	
	Neonatal Tetanus	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40	0	
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	0	
Yellow fever	A	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	2	69	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	0	0	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	0	0	2	0	0	0	1	0	0	0	2	0	0	0	5	107	26	
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	14	
Influenza-Like Illnesses	COVID-19	A	0	0	0	0	0	0	0	0	0	0	5	2	0	0	0	7	7,944	7,944	
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	294	
	Influenza	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34	0	
		D	0	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	0	0	1	0	5	1	1	0	1	0	2	1	1	1	14	367	1	
		D	0	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	0	0	0	0	0	0	0	0	1	0	1	0	1	0	4	274	0	
		D	0	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	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	2	228		
	Neonatal Mortality	D	0	1	2	0	0	0	0	0	1	13	0	0	0	0	2	19	616		
	Adverse Events Following Immunization (AEFI)	A	0	0	0	0	1	2	9	2	0	0	0	0	0	0	2	16	434	0	
		D	0	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	1	0	0	0	0	0	0	0	0	0	0	0	0	1	48	2	
		D	0	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	2	1	1	0	2	2	3	1	3	3	14	4	1	3	1	41	1,623	0	
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	Meningitis	A	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	26	1	0
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Neglected Tropical Diseases	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
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL			4	2	4	10	8	14	17	6	12	10	64	18	8	6	18	201	19648	8739	

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:  $\geq 80\%$ ). 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:  $\geq 2/100,000$ )
- 👉 **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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### For comments or questions, please contact

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## National Public Health Institute of Liberia (NPHIL)

### MISSION

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

### VISION

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

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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.