



# Liberia IDSR Epidemiology Bulletin

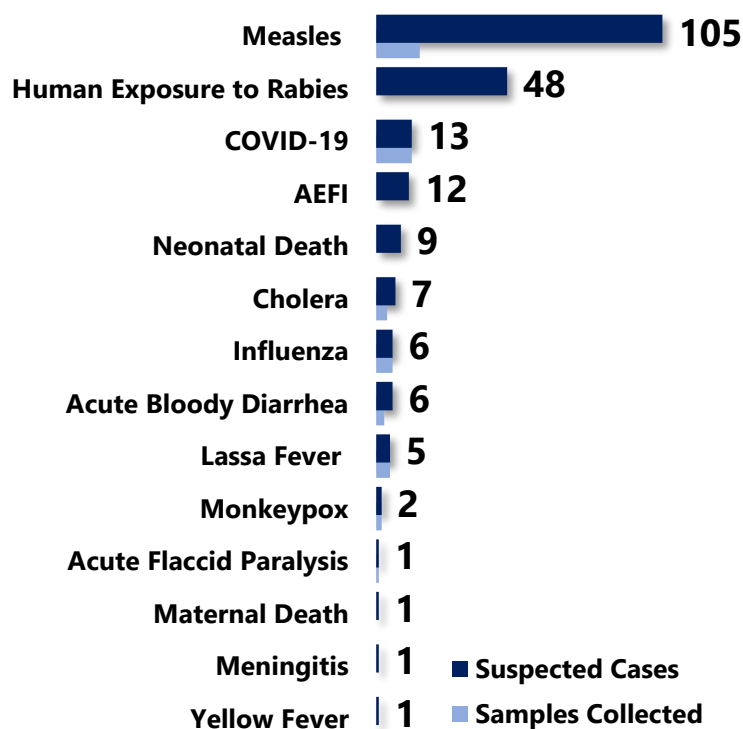
Epi-week 38 (September 19-25, 2022)

Country Population: 5,104,413 | Volume 17 Issue 38 | Sept 19-25, 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 217 events of public health importance including 10 deaths were reported
- ♦ Completeness and timeliness of health facility reports were both 99%
- ♦ Ongoing Lassa fever outbreak in 3 Counties
- ♦ Ongoing Measles outbreak in 15 Counties
- ♦ Thirteen 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 38, 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	22	22	96	96
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	85	85	97	97
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>865</b>	<b>865</b>	<b>99</b>	<b>99</b>

865(99%)  
Health facilities reported IDSR data

93 (100%)  
Health districts reported IDSR data

869(99%)  
Health facilities reported timely IDSR data

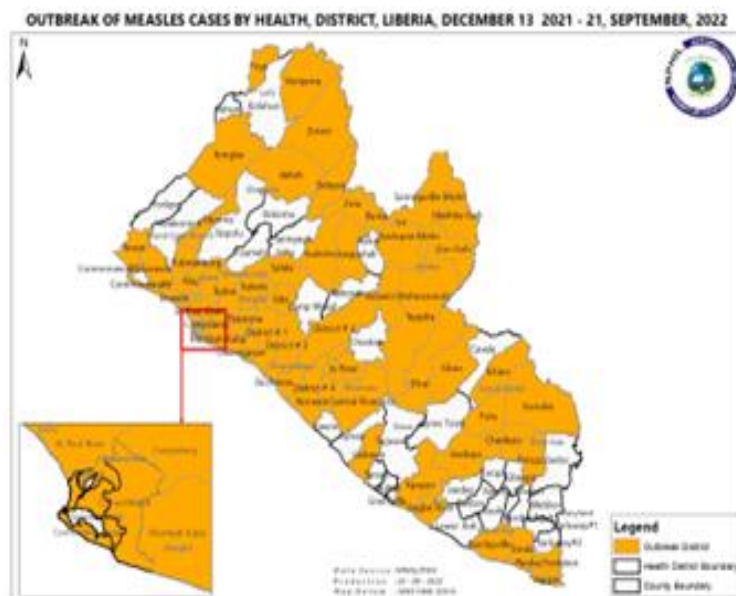
- ♦ The national target for weekly IDSR reporting is 80%. Health facility timeliness is monitored at the health district level
- ♦ All counties submitted weekly IDSR reports to the national level on time except Rivercess County

Legend: ≥80 <80

## Vaccine-Preventable Diseases

### Measles

- 👉 One hundred-five (105) suspected cases were reported: Montserrado (35), Sinoe (15), Margibi (12), Nimba (11), Grand Kru (8), Grand Gedeh (6), Bong (5), Lofa (4), Maryland (4), Grand Bassa (4), and Grand Cape Mount (1) Counties.
- 👉 Sixteen (16) specimens collected: all epidemiologically linked
- 👉 Vaccination status among suspected cases
  - Vaccinated: (37) 35%
  - Not vaccinated: (41) 39%
  - Unknown: (27) 26%
- 👉 Age distribution among suspected cases
  - < 5 years: (56) 53%
  - ≥5 years: (49) 47%
- 👉 Cumulatively, seven thousand, five hundred thirty-four (7,534) suspected cases have been reported including 80 deaths
  - (6,997) 93% confirmed:
    - ✓ Laboratory confirmed: (457/6,997) 7%
    - ✓ Clinically compatible: (556/6,997) 8%
    - ✓ Epidemiologically linked: (5,984/6,997) 86%
  - Non-measles discarded: 537
    - ✓ 40 tested positive for Rubella
- 👉 Proportion of samples collected: (1,177/7,534) 16%
- 👉 Proportion of samples tested: (994/1,177) 84%
- 👉 CFR: (80/6,997) 1.1%



**Geographical distribution of Measles Cases by epidemiological classification, health district, Liberia, Epi-week 1 - 38, 2022**

## Outbreak

### Measles: (Situation update from 13<sup>th</sup> December- 25<sup>th</sup> September 2022)

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

- 👉 Thirty-five (35) cases were reported from Bushrod (11), Commonwealth (10), Somalia Drive (6), Todee (6), and Central Monrovia (2) Districts
- 👉 A total of 3,932 cases have been confirmed including sixty-five (65) deaths
  - Median age 6 (1month-59years)
  - Not Vaccinated- (1,992/3,932) 51%
  - Vaccinated - (1,900/3,932) 48%
- 👉 CFR (65/3,932) 1.7%

#### Bong County: Suakoko, Zota, Jorquelleh, Salala, and Panta Districts (Situation update from 20<sup>th</sup> December 2021-25<sup>th</sup> September 2022)

- 👉 Four (4) new cases were reported from Salala District
- 👉 A total of 404 cases have been confirmed including two (2) deaths
  - Median age 8 (1 month - 38 years)
  - Vaccinated - (116/404) 29%
  - Not vaccinated - (105/404) 26%
  - CFR (2/404) 0.5%



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## Lofa County: Voinjama, Foyah, Zorzor, and Salayea Districts (Situation update from 21<sup>st</sup> January- 25<sup>th</sup> September 2022)

- 👉 Four (4) new cases new case were reported from Foyah (2), Zorzor (1), and Voinjama (1) Districts
- 👉 A total of 165 cases have been confirmed
  - Median age: 10 (2 months-46years)
  - Vaccinated: (157/165) 95%
  - Not vaccinated: (3/165) 1.9%

## Nimba County: Gbehlay-Geh, Sacleapea-Mah, Zoe-Geh, Tappita, Yarwin Mehnsonnoh, and Sanniquellie-Mah Districts (Situation update from 20<sup>th</sup> January-25<sup>th</sup> September 2022)

- 👉 Eleven (11) new cases were reported from Sacleapea-Mah (8), Sanniquellie-Mah (2), and Tappita (1) Districts
- 👉 A total of 653 cases have been confirmed
  - Median age 7 (2 months- 48years)
  - Not Vaccinated: (403/653) 62%
  - Vaccinated: (145/653) 22%

## Maryland County: Harper and Pleebo Districts (Situation update from 1<sup>st</sup> February- 25<sup>th</sup> September 2022)

- 👉 Four (4) new cases were reported from Pleebo District
- 👉 A total of 207 cases have been confirmed
  - Median age 7 (7 months-48 years)
  - Vaccinated: (26/207) 13%
  - Not Vaccinated: (52/207) 25%

## Grand Bassa County: District #1, District #2, Owensgrove, and Buchanan Districts (Situation update from 22<sup>nd</sup> April -25<sup>th</sup> September 2022)

- 👉 Four (4) new cases were reported from District #4 (2), Buchanan (1), and District #3A&B (1) Districts
- 👉 A total of 573 cases including three (3) deaths have been confirmed
  - Median age 7 (1 month-45 years)
  - Vaccinated: (217/573) 38%
  - Not Vaccinated: (233/573) 41%
  - CFR (3/573) 0.5%

## Gbarpolu: Belle and Kongba Districts (Situation update from 22<sup>nd</sup> February- 25<sup>h</sup> September 2022)

- 👉 No new case was reported
- 👉 A total of 14 cases have been confirmed
  - Median age 10 (1-24 years)
  - Vaccinated: (4/14) 29%
  - Not Vaccinated: (7/14) 50%

## Bomi County: Klay District (Situation update from 14<sup>th</sup> March-25<sup>th</sup> September 2022)

- 👉 No new case was reported
- 👉 A total of 69 cases have been confirmed including 6 deaths
  - Median age 7 (1 month-48 year)
  - Vaccinated: (31/69) 45%
  - Not Vaccinated: (18/69) 26%
  - CFR (6/69) 9%

## Grand Kru: Trehn and Barclayville Districts (Situation update from 14<sup>th</sup> March – 25<sup>th</sup> September 2022)

- 👉 Eight (8) new cases were reported from Dorbor District
- 👉 A total of 102 cases confirmed
  - Median age 9 (53 months-18 years)
  - Vaccinated: (75/102) 74%



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- Not Vaccinated: (30/102) 29%

## **Rivercess: Central C, Timbo, Doedine and Yarnee Districts (Situation update from 16<sup>th</sup> March – 25<sup>th</sup> September 2022)**

- 📁 No new case was reported
- 📁 A total of 33 confirmed cases have been recorded
  - Median age 5 (6 months -36 years)
  - Vaccinated: (7/33) 21%
  - Not Vaccinated: (10/33) 30%
  - CFR: (1/33) 3%

## **Margibi County: Firestone, Gibi, Kakata, and Mamba Kaba Districts (Situation update from 21<sup>st</sup> February–25<sup>th</sup> September 2022)**

- 📁 Twelve (12) new cases were reported from Kakata District
- 📁 A total of 557 cases have been confirmed
  - Median age 6 (4 months - 67 years)
  - Vaccinated: (278/557) 50%
  - Not Vaccinated: (164/557) 29%

## **Grand Cape Mount County: Gola Konneh, District (Situation update from 10<sup>th</sup> March –25<sup>th</sup> September 2022)**

- 📁 One (1) new case was reported from Commonwealth C
- 📁 A total of 89 cases have been confirmed including 3 deaths
  - Median age 12 (2 months – 45 years)
  - Vaccinated: (74/89) 83%
  - Not Vaccinated: (13/89) 15%
  - CFR: (3/89) 3.4%

## **Grand Gedeh County: Tchien, Konobo, Bhai, and Gbao Districts (Situation update from 10<sup>th</sup> March–25<sup>th</sup> September 2022)**

- 📁 No new case was reported
- 📁 A total of 100 cases have been confirmed
  - Median age 6 (6 months-35 years)
  - Vaccinated (29/100) 29%
  - Not Vaccinated: (38/100) 38%

## **Sinoe: Gblonee, Dugbeh River, Kpanyan, and Jedepo Districts (Situation update from 19<sup>th</sup> May - 25<sup>th</sup> September 2022)**

- 📁 Fifteen (15) new cases were reported from Jaedae (12), and Gblonee (3) Districts
- 📁 A total of 132 cases have been confirmed
  - Median age 6 (2 months-38 years)
  - Vaccinated: (76/132) 58%
  - Not Vaccinated (18/132) 14%

## **River Gee: Chedepo and Potupo Districts (Situation update from 29<sup>th</sup> June - 25<sup>th</sup> September 2022)**

- 📁 No new case was reported
- 📁 A total of 10 cases have been confirmed
  - Median age 10 (9months-48 years)
  - Vaccinated: (6/10) 60%
  - Not Vaccinated: (2/10) 20%



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## 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

- 📁 Nationwide Measles campaign completed with 68% coverage (age 6-59 months)

### V. Laboratory

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

### VI. Risk Communication and Community Engagement

- Airing of measles prevention and control messages ongoing (Rivercess, Bomi, and Lofa) counties

### VII. Challenges

- Lacked essential medications and medical supplies for case management
- No support for surveillance team for fieldwork
- 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)

- 📁 One (1) case reported from Bong County
  - Specimen was collected
- 📁 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

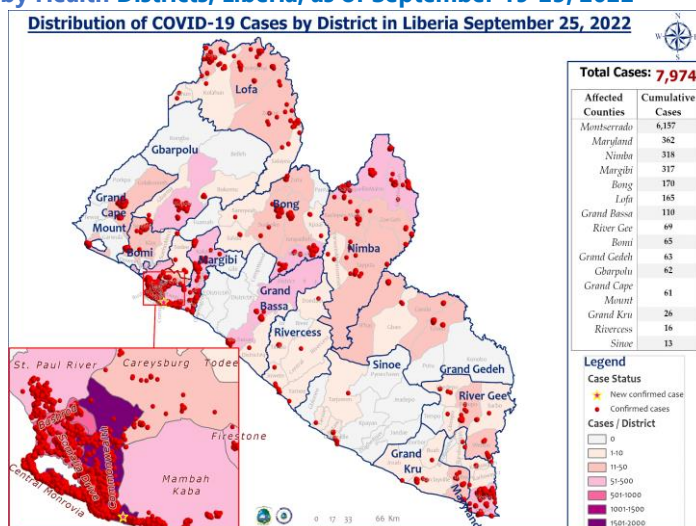
## Influenza-Like Illnesses

### Coronavirus Disease (COVID-19)

#### Outbreak

- ✍ Thirteen (13) new confirmed cases were reported from Nimba (8), and Montserrado (5) Counties
- ✍ A total of one thousand sixty-nine (1,069) confirmed cases have been reported since epi week 1
- ✍ Cumulatively, seven thousand nine hundred seventy-four (7,974) confirmed cases, including 294 deaths
  - 601 healthcare workers (including 8 deaths) reported with 17,827 contacts generated

**Figure 2: Geographical Distribution of Laboratory Confirmed COVID-19 Cases by Health Districts, Liberia, as of September 19-25, 2022**



## 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
- ✍ 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

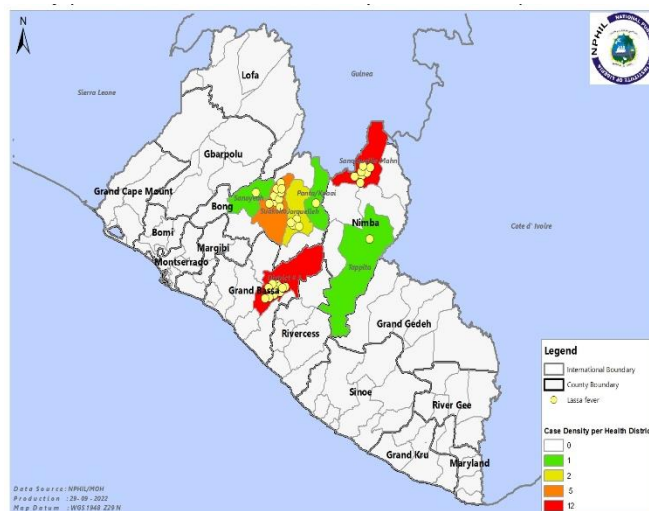
## Influenza

- ✍ Six (6) cases were reported from Montserrado County
- ✍ All specimens were collected and pending testing
- ✍ Cumulatively, thirty-four (34) cases have been reported

## Viral Hemorrhagic Diseases

### Lassa fever

- ✍ Five (5) suspected cases were reported from Grand Bassa (2), Grand Kru (1), Nimba (1), and Bong (1) Counties
- ✍ Five specimens collected: 1 tested positive, 1 negative and 3 pending
- ✍ Cumulatively, one hundred twenty-two (122) suspected cases have been reported including 19 deaths
  - Thirty-nine (39) confirmed cases were recorded including 13 deaths
  - Seventy-seven (77) negatives
  - Case Fatality Rate: (14/39) 36%
  - Proportion of suspected cases with sample collected (121/122) 99%
  - Proportion of suspected cases with sample tested (116/121) 96%



**Geographical distribution of confirmed Lassa fever cases by Health District, Liberia, Epi-week 1-38, 2022**





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- 2 samples rejected
  - 1 not collected

## Outbreak

### Lassa fever disease: (Sitrep update as of September 25, 2022)

- 👉 One new confirmed case was reported from Grand Bassa County
- 👉 Ninety-one (91) contacts generated and under 21 days' follow-up
- 👉 Cumulatively, thirty-nine (39) laboratory-confirmed cases including 14 deaths reported (CFR=36%)

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

- 👉 One new confirmed case reported from District #3A&B
- 👉 The confirmed case was 19 years old, St Michael Camp, LAC Plantation in District 3A&B
- 👉 Onset of symptom was September 12, 2022, and presented with fever ( $>38.5^{\circ}\text{C}$ ), bleeding from orifice, malaise, vomiting, and myalgia.
- 👉 The case sought treatment at LAC hospital on September 21, 2022 and was immediately isolated with Ribavirin treatment initiated
- 👉 Specimen was collected on September 21, 2022 and sent to the National Public Health Reference Laboratory for testing
- 👉 The specimen got tested on September 23, 2022 and positive Lab. results released to the county on the same day
- 👉 Cumulatively, fourteen (14) confirmed cases since this year
  - CFR (4/14) 29%
- 👉 Cumulatively, 59 contacts generated since this year
  - Forty-eight (48) contacts completed monitoring while eleven (11) contacts 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

### Bong County: Suakoko District

- 👉 No new confirmed case reported
- 👉 Cumulatively, fifteen (15) confirmed cases since this year
  - CFR: (3/15) 20%
- 👉 Districts reported confirmed cases since this year
  - Suakoko District: 10 cases and 3 deaths
  - Jorquellah District: 3 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



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## Nimba: Sanniquellie-Mah District

- ✎ No new confirmed case
- ✎ Cumulative confirmed cases: ten (10)
  - CFR (3/10) 30%
- ✎ Cumulative contacts generated: 174 contacts
  - 104 contacts completed monitoring while 70 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

## Yellow fever

- ✎ One (1) case reported from Grand Kru County
- ✎ No specimen was collected
- ✎ Cumulatively, sixty-seven (67) suspected cases have been reported
  - Proportion of suspected cases with sample collected (59/67) 88%
  - Proportion of suspected cases with sample tested (55/59) 93%
  - Samples pending testing (4/59) 7%

## Diarrheal Diseases

### Acute Bloody Diarrhea (Suspected Shigellosis)

- ✎ Six (6) suspected cases were reported from Grand Kru (1), Grand Bassa (1), Lofa (1), Rivercess (1), Bong (1), and Nimba (1) Counties
- ✎ Three (3) specimens were collected and pending testing
- ✎ Cumulatively, three hundred fifty-two (352) suspected cases reported
- ✎ One hundred seventy-one (171) specimens collected; 142 received by the lab
  - 112 tested negatives
    - 1 positive (Grand Gedeh)
    - 11 rejected
    - 18 specimens not tested

### Severe Acute Watery Diarrhea (Suspected Cholera)

- ✎ Seven (7) suspected cases were reported from Maryland (2), Lofa (2), Sinoe (1), Bong (1), and River Gee (1) Counties
- ✎ Four (4) specimens were collected and pending testing
- ✎ Cumulatively, two hundred seventy (270) suspected cases reported
  - 152 specimens collected; 100 received by the lab
    - 71 tested negatives
      - 5 rejected
      - 25 specimens not tested

## Other Reportable Diseases

### Animal bite (Human Exposure to Rabies)

- ✎ Forty-eight (48) animal bite cases were reported: Montserrado (15), Grand Bassa (6), Nimba (6), Margibi (5), Maryland (4), Grand Kru (3), Grand Cape Mount (3), Bong (2), River Gee (2), Grand Gedeh (1), and Lofa (1) Counties
- ✎ Persons received Post Exposure Prophylaxis (PEP) (7/48) 15%
- ✎ Cumulatively, one thousand five hundred eighty-two (1,582) animal bite cases reported
  - Dog bites account for 100%
    - 1-4 doses (PEP) administered to (286/1,582) 18% of patients

## Public Health Actions

- ✎ Administration of post-exposure prophylaxis
- ✎ Cases Jointly Investigated





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- 👉 Quarantined suspected rabid dog
- 👉 Ongoing monitoring and follow-up of cases

## Meningitis

- 👉 One (1) case reported from Lofa County
- 👉 No specimen was collected
- 👉 Cumulatively, twenty-five (25) suspected cases reported
- 👉 One (1) confirmed

## Monkeypox

- 👉 Two (2) new suspected cases were reported from Grand Bassa and Montserrado Counties
- 👉 Two (2) specimens were collected
- 👉 Cumulatively, forty-seven (47) suspected cases reported

## **Events of Public Health Importance**

### Maternal Mortality

- 👉 One (1) death was reported from Grand Bassa County
  - Cause of death: Postpartum hemorrhage (1)
- 👉 Reporting site:
  - Health facility (1/1) 100%
- 👉 Cumulatively, two hundred twenty-four (224) deaths have been reported
  - Proportion of deaths reviewed (49/224) 22%
  - Proportion of community deaths (22/224) 10%
    - Proportion of community deaths reviewed: (8/22) 36%

### Neonatal Mortality

- 👉 Nine (9) deaths were reported: Montserrado (6) Lofa (1), Grand Kru (1), and Bong (1) Counties
  - 👉 Causes of death: Birth asphyxia (7), and Sepsis (2)
  - 👉 Eight deaths occurred at the health facility and One in the community
  - 👉 Cumulatively, five hundred ninety-six (596) deaths have been reported
- The proportion of deaths reviewed (79/596) 13%
- Proportion of community deaths (25/596) 4%
    - Proportion of deaths reviewed from the community (8/25) 32%

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

- 👉 Twelve (12) cases were reported: Lofa (5), Sinoe (4), and Grand Bassa (3) Counties
  - Related vaccines:
    - COVID-19 (10/12) 83%
    - Penta-3 (1/12) 8%
    - IPV (1/12) 8%
- 👉 Cumulatively, four hundred eighteen (418) events were reported with (283/418) 68% related to COVID-19
- 👉 Proportion of COVID-19 vaccine
  - J&J vaccine – (220/283) 78%
  - AstraZeneca – (6/283) 2%
  - Pfizer – (57/283) 20%
- 👉 Proportion of other vaccine-related events – (135/418) 32%
  - Measles Vaccine – (78/135) 58%
  - Penta – (24/135) 18%
  - Others- (33/135) 24%

## **Public Health Actions**

- 👉 All events were investigated, categorized as *non-serious AEFI*, and *symptomatically treated*



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👉 Active case search and community engagement ongoing

## Border Surveillance Update

**Table2: Border activity at the PoE for Incoming and Outgoing Travelers, Liberia, Epi week 38, 2022**

👉 A total of 4,173 travelers were recorded for the week with incoming travelers accounting for 53% (2,209/4,173)

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	COVID-19 vaccination card/certificate
Airport	James S. Pavnes Robert Int'l Airport	110	65	53	110	0	0	0	0	0	40
		2600	1263	1337	2565	29	0	6	0	0	2578
Seaport	Freeport of Monrovia	200	100	100	200	0	0	0	0	0	200
	Buchanan Port	110	55	55	110	0	0	0	0	0	110
Land Crossing	Bo Water Side	510	343	167	432	26	25	27	0	0	63
	Ganta	384	267	117	371	13	0	0	0	0	68
	Yekepa	159	78	81	145	14	0	0	0	0	34
	Loguatu	100	38	62	90	10	0	0	0	0	44
<b>Total</b>		<b>4,173</b>	<b>2,209</b>	<b>1,972</b>	<b>4,023</b>	<b>92</b>	<b>25</b>	<b>33</b>	<b>0</b>	<b>0</b>	<b>3,137</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	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	94	0
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Measles	A	0	5	0	4	1	6	8	4	12	4	35	11	0	0	15	105	7,534	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	41	0
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Yellow fever	A	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	67	0	
	D	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
		D	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
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Lassa fever	A	0	1	0	2	0	0	1	0	0	0	0	1	0	0	0	5	103	25
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	14
Influenza-Like Illnesses	COVID-19	A	0	0	0	0	0	0	0	0	0	0	5	8	0	0	0	13	7,974	7,974
		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	6	0	0	0	0	6	34	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	0	1	0	0	1	1	0	0	0	1	1	0	0	6	352	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	0	1	0	0	0	0	0	2	0	2	0	0	0	1	1	7	270	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	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	224	
	Neonatal Mortality	D	0	1	0	0	0	0	1	1	0	0	6	0	0	0	0	9	596	
	Adverse Events Following Immunization (AEFI)	A	0	0	0	3	0	0	0	5	0	0	0	0	0	0	4	12	418	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
		D	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	1	0	0	0	0	2	47	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
		D	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	0	2	0	6	3	1	3	1	5	4	15	6	0	2	0	48	1,581	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	1	0	0	0	0	0	0	0	1	25	1
		D	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
		D	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
		D	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	
	D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL			0	12	0	18	4	7	15	15	17	10	68	27	1	3	20	217	19458	8768

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

Epidemiological bulletin published with support from WHO and CDC

### 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.