



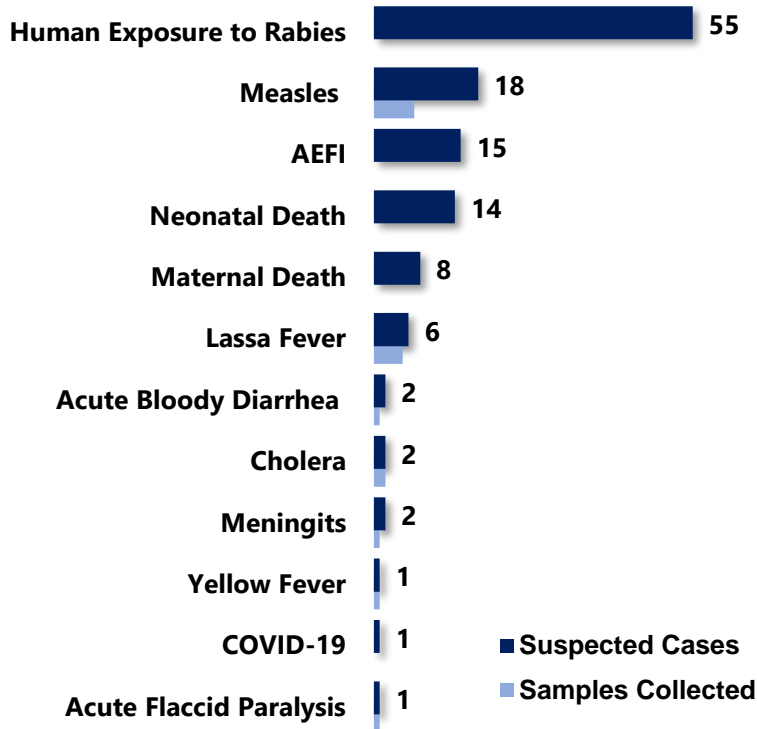
# Liberia IDSR Epidemiology Bulletin

2024 Epi-week 29 (July 15 – 21)

Country Population: 5,406,374 | Volume 20 Issue 29 | July 15 – 21, 2024 | 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 125 events of public health importance, including 23 deaths reported
- ◆ Completeness and Timeliness of health facility reports were 97% and 96% respectively
- ◆ Ongoing Lassa fever outbreak in 2 Counties
- ◆ Ongoing Measles outbreak in 5 Counties

## Reporting Coverage

Table 1: Health Facility Weekly IDSR Reporting Coverage, Liberia, Epi-week 29, 2024

County	Expected Reports from HF*	Reports Received	Received on Time	Completeness (%)	Timeliness (%)
Bomi	29	29	29	100	100
Bong	64	64	64	100	100
Gbarpolu	18	18	18	100	100
Grand Bassa	38	38	38	100	100
Grand Cape					
Mount	36	36	36	100	100
Grand Gedeh	24	24	24	100	100
Grand Kru	25	25	25	100	100
Lofa	61	61	61	100	100
Margibi	64	64	64	100	100
Maryland	28	28	28	100	100
Montserrado	391	368	364	94	93
Nimba	102	96	96	94	94
Rivercess	21	21	21	100	100
River Gee	21	21	21	100	100
Sinoe	41	41	41	100	100
<b>Liberia</b>	<b>963</b>	<b>934</b>	<b>930</b>	<b>97</b>	<b>96</b>

934 (97%)  
Health facilities reported IDSR

98(100%)  
Health districts reported IDSR data

930(96%)  
Health facilities reported timely

### Legend:

≥80

<80

- ◆ The national target for weekly IDSR reporting is 80%, Bong and Maryland counties reported late. Health facility timeliness is monitored at the health district level

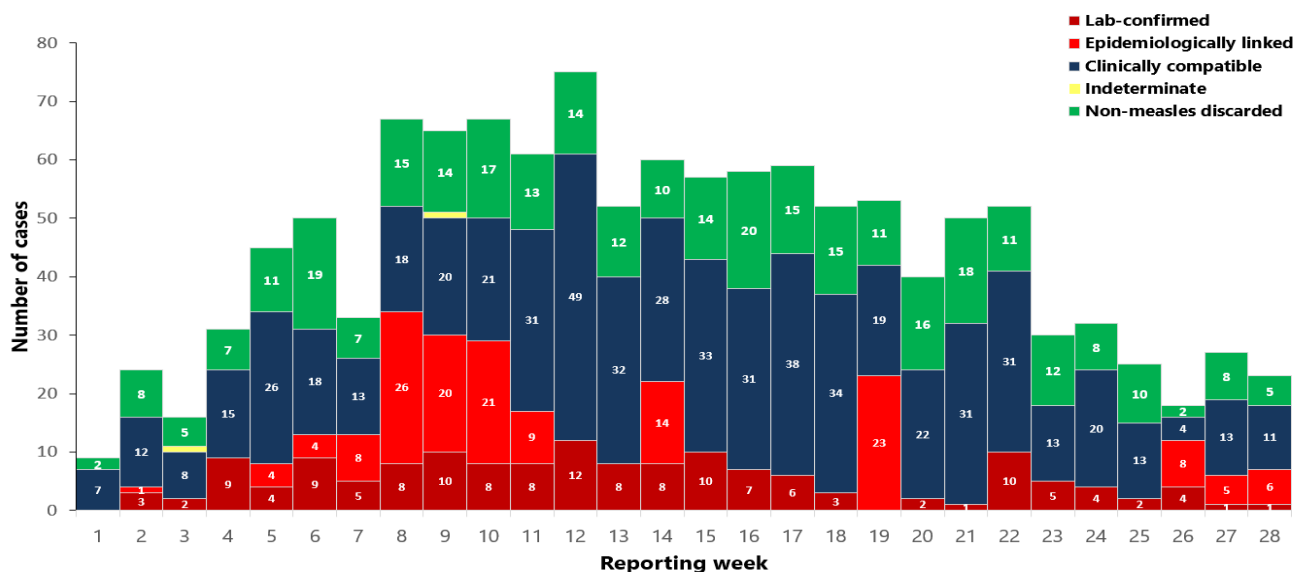
## Vaccine-Preventable Diseases

### Measles

- ☞ Eighteen (18) suspected cases were reported from Nimba (10), River Gee (2), Gbarpolu (2), Lofa (2), Grand Cape Mount (1), and Sinoe (1) Counties
  - Ten(10) specimens were collected: 2 positive, 5 negative, and 3 pending testing
  - Fifty percent (9/18) of the suspected cases were vaccinated for measles (*see Table 3*)
- ☞ Cumulatively, 1250 suspected cases have been reported since Epi-week 1 (*see Table 2*)
  - Of the total reported 924 confirmed cases,
    1. 53% were reported to have previously been vaccinated,
    2. 37% were unvaccinated
    3. 10% had unknown vaccination status
  - Fifty-one percent (475/924) of the confirmed cases are below 5 years
  - Proportion of suspected cases with sample collected 46% (578/1250)
  - Proportion of suspected cases with sample tested 83% (480/578) [negative – 326, positive – 152, indeterminate-2]
  - Proportion of negative Measles cases tested for Rubella 94% (289/306) [negative – 282, positive – 26]
- ☞ Liberia’s annualized non-measles febrile rash illness rate now stands at 11.0 per 100,000. Montserrado County is below the target (*see Table 2*)

**Table 2. Classification of measles, reporting rate, and annualized non-measles rash illness rate per 100,000 population by County, Liberia, Week 1-29 2024**

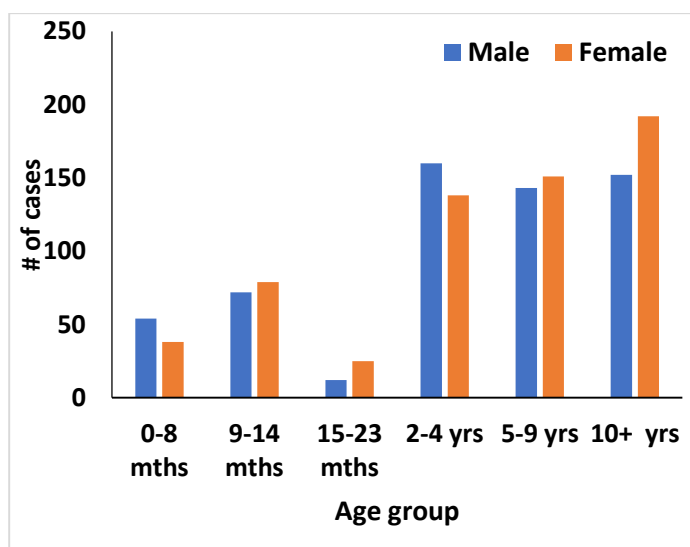
Reporting County	Epi-classification					Cumulative	Annualized Non Measles Febrile Rash Illness Rate
	Lab confirmed	Epi-linked	Clinically compatible	Indeterminate (Equivocal)	Discarded (Negative)		
Bomi	1	0	4	0	5	10	6.7
Bong	1	0	21	0	9	31	3.5
Gbarpolu	6	0	11	1	24	42	46.0
Grand Bassa	2	0	8	0	14	24	8.7
Grand Cape Mount	3	0	6	0	25	34	25.3
Grand Gedeh	33	28	61	0	33	155	27.2
Grand Kru	26	35	43	0	44	148	71.4
Lofa	0	0	18	0	15	33	7.4
Margibi	0	0	2	0	4	6	2.4
Maryland	21	6	163	0	8	198	8.5
Montserrado	3	0	22	0	17	42	1.6
Nimba	26	66	187	0	25	304	7.3
River Gee	20	13	45	1	36	115	52.7
Rivercess	0	0	3	0	6	9	11.7
Sinoe	8	1	17	0	54	80	64.9
<b>Liberia</b>	<b>150</b>	<b>149</b>	<b>611</b>	<b>2</b>	<b>319</b>	<b>1231</b>	<b>11.0</b>
Target Achieved	≥2		Below Target		<2		



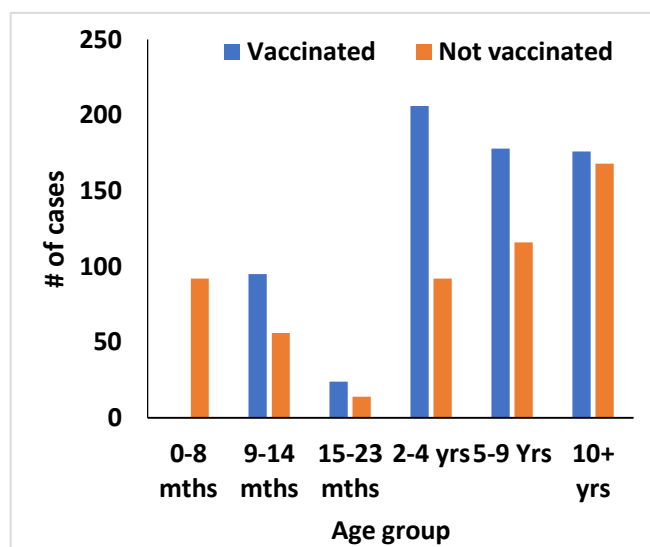
**Figure 2: Distribution of Measles Cases by Reporting Week and Epi-classification, Liberia, Week 1-29, 2024**

**Table 3: Distribution and Vaccination Status of Measles Cases, Liberia, Epi-week 29, 2024**

County	# of cases	Vaccinated	Number of Doses Received		
			One-Dose	Two Doses	Doses Not Indicated
Grand Cape Mount	1	0	0	0	0
Grand Gedeh	1	0	0	0	0
Grand Kru	3	0	0	0	0
Lofa	1	0	0	0	0
Maryland	2	0	0	0	0
Montserrado	1	1	1	0	0
Nimba	7	4	4	0	0
River Gee	5	3	0	0	3
Sinoe	2	2	2	0	0
<b>Total</b>	<b>23</b>	<b>10</b>	<b>7</b>	<b>0</b>	<b>3</b>



**Figure 3: Suspected Measles Cases by Age group and Sex, Liberia Epi week 1-29, 2024**



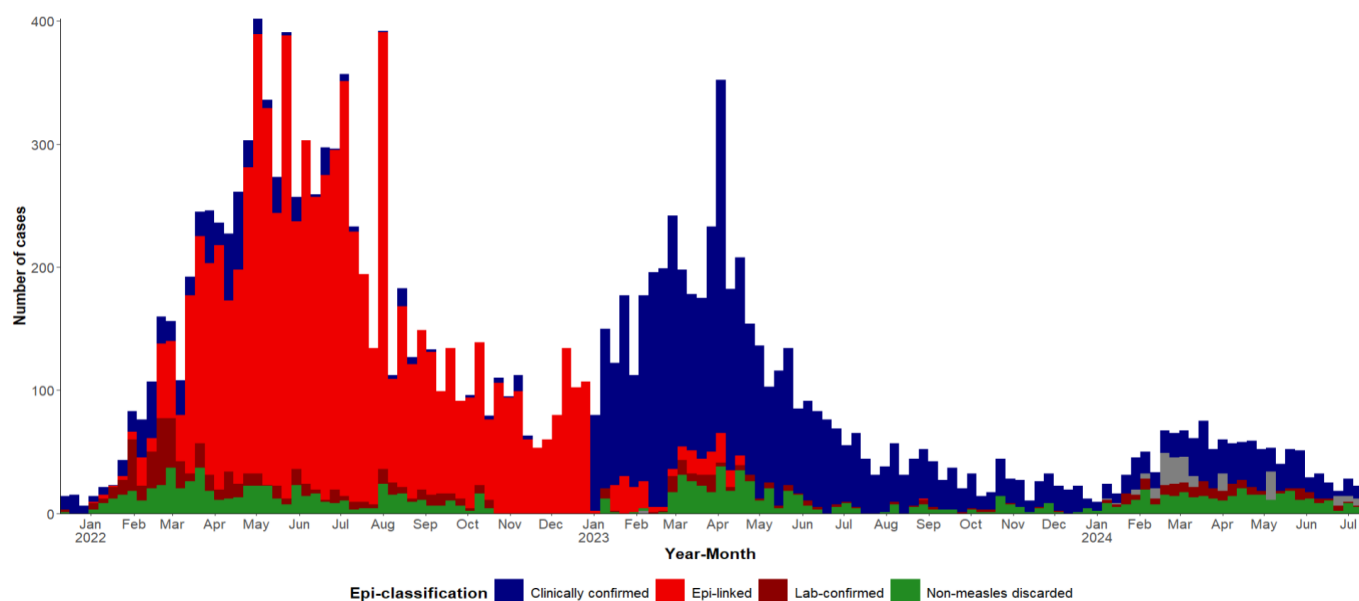
**Figure 4: Suspected Measles Cases by Age Group and Vaccination Status, Liberia, Epi-Week 1-29, 2024**

**Table 4: Status of Confirmed Measles Cases by County, Liberia, December 13, 2021-July 21, 2024**

County	Total Cases	Active	Recovery	Deaths	# of Districts
Montserrado	5,373	0	5,304	69	0/7
Nimba	1318	8	1306	4	4/6
Grand Bassa	924	0	917	7	0/8
Margibi	803	0	802	1	0/4
Bong	578	0	575	3	0/9
Maryland	1,316	0	1316	0	3/6
Lofa	292	0	292	0	0/6
Grand Kru	1,100	0	1,108	2	3/5
Grand Cape Mount	187	0	184	3	0/5
Bomi	147	0	142	5	0/4
Rivercess	84	0	83	1	0/6
Gbarpolu	64	0	64	0	1/5
Grand Gedeh	602	0	602	0	0/6
River Gee	134	0	134	0	1/6
Sinoe	247	0	247	0	0/10
<b>Total</b>	<b>13,169</b>	<b>8</b>	<b>13,066</b>	<b>95</b>	<b>12/98</b>

**Table 5: Status of Confirmed (lab, clinically confirmed, and epi-linked) Measles Cases by County, Liberia December 13, 2021- July 21, 2024**

COUNTY	CUMULATIVE SUSPECTED CASES	CUMULATIVE CONFIRMED CASES	CLASSIFICATION OF CONFIRMED CASES			CLASSIFICATION OF CONFIRMED DEATHS			CUMULATIVE DEATHS	CFR (%)	# CONFIRMED CASES WEEK 28	# CONFIRMED CASES WEEK 29	Outbreak Status
			Lab confirmed	Epi Linked	Clinically Compatible	Lab confirmed	Epi Linked	Clinically Compatible					
Montserrado	5,456	5,373	148	1658	3,567	3	61	5	69	1.3	0	0	Ended
Nimba	1,343	1,318	59	335	924	0	1	3	4	0.4	5	8	Ongoing
Margibi	827	803	37	136	630	0	0	1	1	0.1	0	0	Ended
Grand Bassa	962	924	41	212	671	1	0	6	7	0.9	0	0	Ended
Lofa	361	292	35	66	191	0	0	0	0	0	0	0	Ended
Bong	603	578	25	21	532	0	1	2	3	0.5	0	0	Ended
Maryland	1325	1316	33	393	890	0	0	0	0	0	2	0	Ongoing
Grand Gedeh	754	604	83	121	400	0	0	0	0	0	0	0	Ended
Sinoe	302	247	48	88	111	0	0	0	0	0	0	0	Ended
Bomi	183	147	37	27	83	1	2	2	5	3	0	0	Ended
Grd Cape Mt	215	187	23	18	146	0	2	1	3	1.6	0	0	Ended
Grand Kru	1131	1,100	56	204	840	0	0	2	2	0.2	3	0	Ongoing
Gbarpolu	82	62	7	5	50	0	0	0	0	0	0	0	Ongoing
Rivercessa	112	84	26	54	4	0	1	0	1	1.1	0	0	Ended
River Gee	167	134	33	51	50	0	0	0	0	0	0	0	Ongoing
<b>Total</b>	<b>13,823</b>	<b>13,169</b>	<b>691</b>	<b>3,389</b>	<b>9,089</b>	<b>5</b>	<b>68</b>	<b>22</b>	<b>95</b>	<b>7.8</b>	<b>10</b>	<b>8</b>	



**Figure 5: Epi-curve of Measles Cases by Epi-classification, Liberia, 13 December 2021 – 23 July 2024**

## PUBLIC HEALTH RESPONSE

### I. Coordination

- The response has been led by the County Health Teams with technical support from the National Public Health Institute of Liberia (NPHIL), the Ministry of Health (MOH) and partners (Grand Gedeh-UNICEF, Maryland-PIH, Grand Kru-IRC and WHO).
- IMS meetings are being held for coordination and mobilization of resources in affected Counties.

### II. Epidemiological Surveillance

- Active case search in affected and surrounding communities ongoing in Grand Kru County
- Four districts (Buah, Trehn, and Dorbor in Grand Kru and Putu in Grand Gedeh counties outbreaks ended and the end of outbreak reports were shared.

### III. Case management

- Case management ongoing in affected counties

### IV. Immunization

- Routine immunization ongoing across the country

### V. Laboratory

- The National Public Health Reference Laboratory continues testing of Measles samples
- A total of Six hundred ninety-one (691) cases have been confirmed by the NPHRL from December 13, 2021 – July 24 2024.

### VI. Risk Communication and Community Engagement

- Continual of community advocacy meetings with local leaders and family members in the affected communities (Grand Kru).

### Challenges

- Limited supply of essential medications and medical supplies for case management in Grand Kru county

### Photos taken during the measles response in Grand Gedeh County



**HFSFP carrying on Awareness on Measles Outbreak in Putu Jarwodee Town Hall, Putu District, with County Level Response team and Partners.**



**Surveillance Officers creating Measles outbreak awareness and health education in communities and on school campuses**

**Acute Flaccid Paralysis (AFP)**

- ☞ One (1) case was reported from Montserrado County
  - Specimen was collected and shipped to Ivory Coast for testing
- ☞ Cumulatively, seventy-one (71) cases have been reported
  - Forty-seven (47) tested negative, 9 (NPENT), 15 pending testing

**Table 6: Non-Polio AFP Rate 3/100,000 <15 years by County, Liberia, Epi-week 1 – 29, 2024**

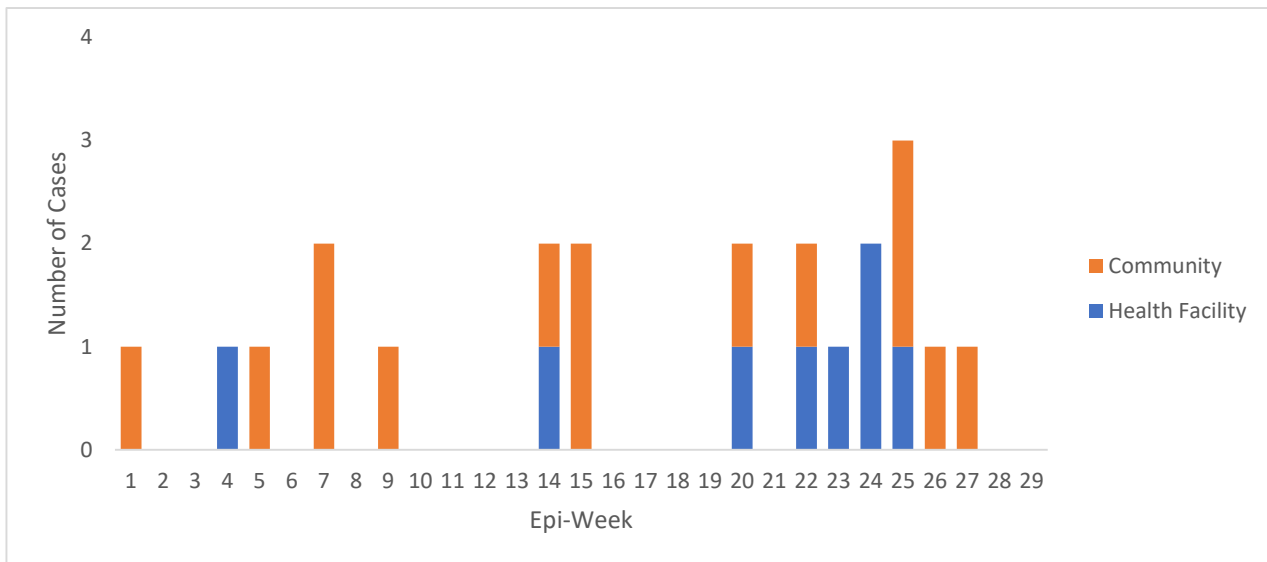
County	< 15 years pop	# of AFP Cases Reported	# of Cases with Lab Result	Non-Polio AFP Rate	# of cases <14 days specimen collected	% of stool <14days	# of NPENTs	% of NPENT
Bomi	62196	2	2	6.0	2	100%	0	0%
Bong	215425	1	1	0.9	1	100%	0	0%
Gbarpolu	43630	2	2	8.5	2	100%	0	0%
Grand Bassa	134743	3	3	4.1	3	100%	0	0%
Grand Cape Mount	82471	6	5	13.5	6	100%	1	17%
Grand Gedeh	101412	5	4	9.2	4	80%	1	20%
Grand Kru	51467	2	2	7.2	2	100%	1	50%
Lofa	168626	8	5	8.8	8	100%	0	0%
Margibi	140931	2	1	2.6	2	100%	0	0%
Maryland	78808	2	1	4.7	1	50%	0	0%
Montserrado	898124	12	10	2.5	12	100%	2	17%
Nimba	285705	18	15	11.7	17	94%	4	22%
Rivercess	42729	1	0	4.3	1	100%	0	0%
River Gee	57047	1	1	3.3	1	100%	0	0%
Sinoe	69556	5	4	13.4	5	100%	0	0%
<b>Liberia</b>	<b>2432868</b>	<b>70</b>	<b>56</b>	<b>5.3</b>	<b>67</b>	<b>96%</b>	<b>9</b>	<b>13%</b>
<b>Non-Polio AFP Rate</b>	<b>&lt;2</b>			<b>&lt;80%</b>	<b>Non-Polio Enterovirus</b>	<b>&lt;10%</b>		
	<b>≥ 2</b>	<b>Stool adequacy</b>		<b>≥80%</b>		<b>≥10%</b>	<b>Silent</b>	

**Neonatal Tetanus**

- ☞ Zero cases were reported
- ☞ Cumulatively, twenty- two (22) cases have been reported including six (6) deaths

Of the total 22 cases reported

- 32% (7/22) Adequate case response rate
- 29% (2/7) Deaths
- 59% (13/22) Community detection



**Figure 6: Neonatal Tetanus cases detection by Epidemiological week, Liberia, Epi-week 1-29, 2024**

#of mothers of NT cases that received a TTCV dose in conjunction with case detection or investigation / total # of NT case investigation

### Influenza-Like Illnesses

#### Coronavirus Disease (COVID-19)

- ☞ One (1) suspected case was reported from Lofa County
- ☞ No specimen was collected
- ☞ Cumulatively, three (3) cases have been reported: two positive and one negative

#### Influenza

- ☞ Zero suspected cases were reported
- ☞ Cumulatively, seventy-one (71) suspected cases reported
  - Seventy-one (71) specimens were collected: 65 tested negative, 5 specimens were discarded and one positive for Influenza B

### Viral Hemorrhagic Fever

#### Lassa fever

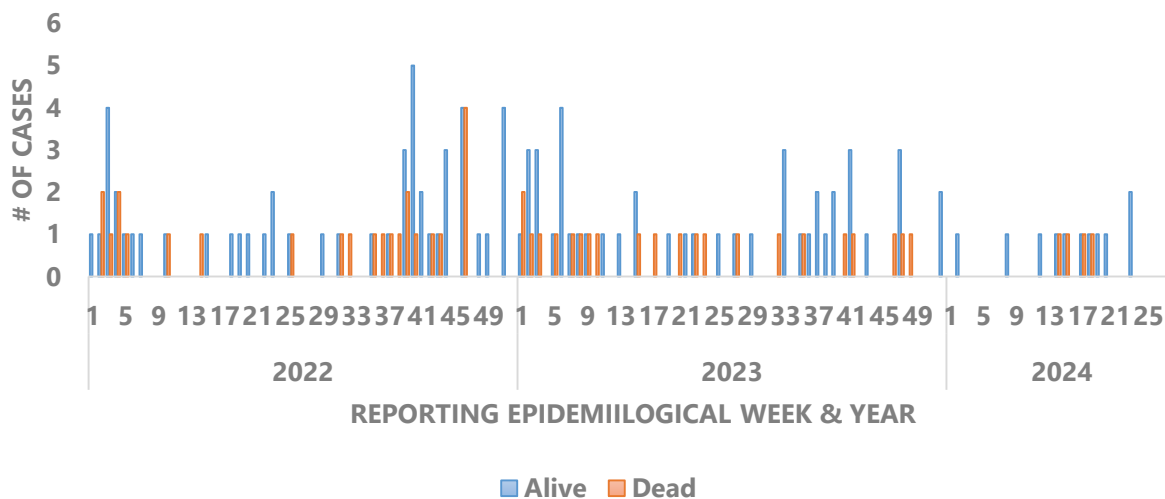
- ☞ Six (6) suspected cases were reported from Bong (4) (including 1 death), Nimba (1), and Montserrado (1) Counties
  - Specimens were collected: 2 positive and 4 tested negative
- ☞ Cumulatively, one hundred twenty-seven (127) suspected cases have been reported
  - Proportion of suspected cases with sample collected (127/127) 100%
    - 4 discarded
  - Proportion of suspected cases with sample tested (121/127) 95%
    - Seventeen (17) positive including 5 deaths, 104 negative, 1 indeterminate, 1 pending testing
    - Case fatality rate: (5/17) 29%

### **Outbreak: January 6, 2022-July 22, 2024**

- ☞ Two (2) new confirmed cases reported from Bong, and Nimba (dead) Counties
- ☞ Thirty-four (34) contacts including 18 healthcare workers line listed and under 21 days follow-up
- ☞ A total of 155 confirmed cases including 46 deaths reported
- ☞ Cumulative Case Fatality Rate (CFR): (46/155) 30%
- ☞ Two counties currently in outbreak

**Table 7: Summary of Lassa fever Outbreak, Liberia, January 6, 2022-July 22, 2024**

County	Outbreak Districts	Outbreak Start Date	Total suspected	Total confirmed	HCWs confirmed	Total Deaths	Deaths in HCWs	CFR %	Total Contacts	# HCW contacts	Contacts_ became cases	Contacts under follow up	Contacts completed	Days in countdown	Outbreak Status
Montserrado	Bushrod	13-Feb-23	17	1	0	0	0	0%	29	21	0	0	29	Completed	Ended
	Central Monro	27-Nov-23	1	2	0	1	0	50%	49	0	0	0	49	Completed	Ended
	Central Monro	3-Mar-23	38	2	0	1	0	50%	28	27	0	0	28	Completed	Ended
	Bushrod	30-Apr-24	2	1	0	0	0	0%	14	6	0	0	14	Completed	Ended
Bong	Suakoko	21-Apr-23	192	54	18	13	2	24%	496	114	6	0	417	Completed	Ended
	Jorquelleh	15-Oct-23	14	6	3	1	1	17%	121	86	3	0	169	Completed	Ended
	Kokoyah	6-Jun-24	3	1	0	0	0	0%	8	0	0	0	8	26	Countdown
	Suakoko	23-Feb-24	31	3	0	0	0	0%	29	14	0	0	29	Completed	Ended
	Salala	8-Mar-24	2	2	0	1	0	50%	21	0	0	0	21	Completed	Ended
	Jorquelleh	11-Apr-24	3	2	0	1	0	0%	41	30	0	0	41	26	Countdown
Grand Bassa	Jorquelleh	22-Jul-24	1	1	0	0	0	0%	14	2	0	14	0	Active	Ongoing
	District 3A&B	21-Aug-23	87	44	0	10	0	23%	177	40	40	0	159	Completed	Ended
	Buchanan	11-Aug-23	2	1	0	1	0	100%	4	2	0	0	4	Completed	Ended
	District 3A&B	30-Apr-24	6	3	0	1	0	33%	12	3	0	0	12	Completed	Countdown
Nimba	Saclepea-Mah	21-Nov-23	4	2	0	1	0	50%	5	0	0	0	5	Completed	Ended
	Samquellie-Mah	6-Feb-23	43	15	0	6	0	40%	43	35	8	0	43	Completed	Ended
	Tappita	20-Nov-23	12	5	0	3	0	60%	88	39	4	0	77	Completed	Ended
	Bain-Garr	1-Jun-23	25	6	0	3	0	50%	61	25	0	0	31	Completed	Ended
	Bain-Garr	15-Apr-24	5	2	0	1	0	50%	25	7	0	0	25	Completed	Ended
River Gee	Bain-Garr	18-Jul-24	2	1	0	1	0	100%	20	16	0	20	0	Active	Ongoing
River Gee	Putupo	25-Nov-22	2	1	0	1	0	100%	14	0	0	0	14	Completed	Ended
<b>Total</b>			<b>492</b>	<b>155</b>	<b>21</b>	<b>46</b>	<b>3</b>	<b>30%</b>	<b>1299</b>	<b>467</b>	<b>61</b>	<b>34</b>	<b>1175</b>		



**Figure 7: Epi-curve of Confirmed Lassa Fever Cases by Outcome, Liberia, January 6, 2022 – July 14, 2024**

**Public Health Measures**

**I. Coordination**

- The National Public Health Institute of Liberia (NPHIL) and the Ministry of Health (MOH) are providing technical support to the affected counties with support from partners

**II. Surveillance**

- Active case search ongoing in affected communities
- Thirty-four (34) contacts including 18 healthcare workers line listed and under 21 days follow-up
- Weekly sit-reps developed and disseminated to stakeholders





**Photos of field investigation and burial team, Nimba County, July 18&19, 2024**

### III. Case management and IPC

- Ribavirin distributed to all affected counties
- Cases treated with ribavirin and discharged

### IV. Dead Body Management

- Safe and dignified burial for the deceased conducted in Ganta, Nimba County, 18 July 2024

### V. Laboratory

- The National Public Health Reference Laboratory continues testing of Lassa fever samples
- A total of 155 Lassa fever cases have been confirmed since this outbreak

### Challenges

- Limited supply of IPC materials in affected counties
- Limited logistics (gasoline, communication cards, fuel, etc.) to support active case finding
- Lack of stationeries in EOC to produce case alert forms and others tools for investigations (Bong County)
- Lack of computer for the County Surveillance Officer (Bong County)

### Yellow Fever

- ☞ One (1) suspected case was reported from Bomi County
- ☞ Specimens was collected and pending testing
- ☞ Cumulatively Sixty-one (61) cases have been reported
  - Proportion of suspected cases with samples collected 95% (58/61) however, 7 samples pending testing, 1 rejected
  - Proportion of suspected cases with samples tested 86% (50/58): 49 negative, 1 indeterminate

### Dengue

- ☞ zero suspected cases were reported
- ☞ Cumulatively, five (5) suspected cases were reported

### Ebola Virus Disease

- ☞ Zero cases reported

### Diarrheal Diseases

#### Acute Bloody Diarrhea (Suspected Shigellosis)

- ☞ Two (2) cases were reported from Grand Cape Mount (1), and River Gee (1) Counties
  - One (1) specimen was collected: and pending testing
- ☞ Cumulatively, two hundred forty-four (244) cases have been reported
  - 142 specimens were collected, 110 reached the Lab
  - 92 tested negative, 7 rejected
  - 8 confirmed (*S. flexneri-2* & *S. sonnei-6*)
  - 3 pending testing

## Severe Acute Watery Diarrhea (Suspected Cholera)

- Two (2) cases were reported from Margibi and Lofa Counties
- Specimens were collected: 2 pending testing and 1 pending arrival
- Cumulatively, one hundred seventy (170) cases have been reported
  - 103 specimens collected, 76 reached the Lab
  - 54 tested negatives, 10 rejected, and 12 pending testing

## Other Reportable Diseases

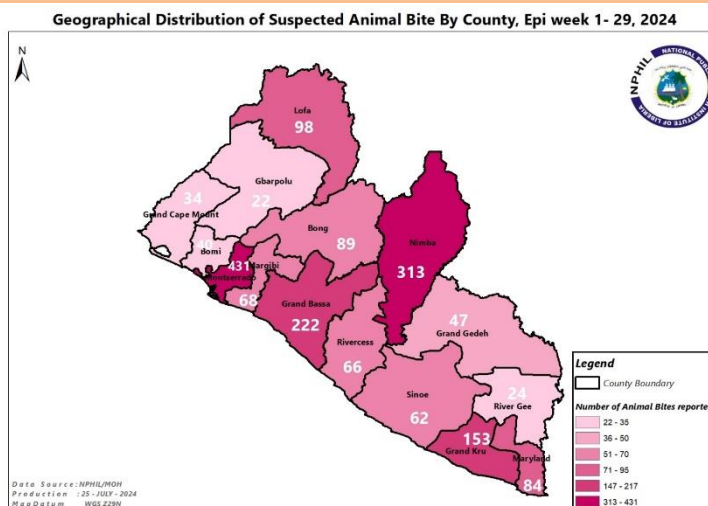
### Animal bite (Human Exposure to Rabies)

Fifty-five (55) dog bite cases were reported from Nimba (14), Montserrado (10), Grand Kru (6), Bong (6), Grand Bassa (5), Lofa (4), Rivercess (3), Margibi (2), Grand Gedeh (2), Sinoe (1), River Gee (1), and Maryland (1) Counties

- Proportion of cases investigated: 47% (26/55)
- Proportion of dogs vaccinated: 0% (0/55)
- Cumulatively, 1,742 cases have been reported including 2 deaths (Suspected Human Rabies)

### Public Health Actions

- All cases were clinically managed and discharged
- PEP administered to three (3) persons (5%) in Bong (2), and Lofa (1) Counties
- PEP supplied to Rivercess, Grand Bassa, Nimba, Montserrado and Sinoe counties



## Meningitis

- Two (2) cases were reported from Lofa and Grand Kru Counties
- One specimen was collected and pending testing
- Cumulatively, Nineteen (19) suspected cases have been reported
  - Proportion of specimen collected 84% (16/19), 3 specimens not collected
  - Proportion of specimens tested 94% (15/16) (14 negative, 1 positive)

## Mpox

- Zero cases were reported
- Cumulatively, forty-eight (48) suspected cases have been reported with 41 samples collected:
  - Thirty-five (35) tested of which 5 confirmed positive and 30 negative
  - 2 rejected, 3 pending testing and 1 discarded

## Unexplained cluster of deaths

- Zero cases reported

## An Unexplained Cluster of Health Events

- Zero cases reported

## Other Events of Public Health Importance

### Maternal Mortality

- Eight (8) deaths reported from Montserrado (5), Grand Bassa (1), Bomi (1), and Margibi (1) Counties
- Reported causes: Eclampsia (4), PPH (2), Anemia (1), and under review (1)
- Reporting sites:
  - Health facility 88% (7/8)
  - Community 12% (1/8)
- Cumulatively, one hundred eighty-eight (188) deaths reported
  - Proportion of deaths reviewed 40% (75/188)

**Table 8. Cumulative Maternal Mortality reporting rate and annualized Maternal Mortality per 100,000 live-birth by County, Liberia, Week 1-29, 2024**

County	Estimated Annual Live birth (4.3%)	Current week	Cumulative	% of Cumulative Maternal deaths	Annualized Maternal Mortality
Grand Bassa	12875	0	16	8.9	231
Montserrado	85821	1	94	52.2	203
Grand Cape Mount	7881	1	7	3.9	165
Margibi	13467	0	10	5.6	138
Nimba	27301	3	23	12.8	156
Maryland	7531	0	5	2.8	123
Bomi	5943	0	3	1.7	94
Lofa	16113	0	8	4.4	92
Rivercess	4083	0	2	1.1	91
Grand Kru	4918	0	2	1.1	76
River Gee	5451	0	2	1.1	68
Grand Gedeh	9690	0	3	1.7	57
Bong	20585	0	4	2.2	36
Sinoe	6646	0	1	0.6	28
Gbarpolu	4169	0	0	0.0	0
<b>Liberia</b>	<b>232474</b>	<b>5</b>	<b>180</b>	<b>100.0</b>	<b>144</b>

#### Neonatal Mortality

- ☞ Fourteen (14) deaths were reported from Montserrado (9), Nimba (3), Lofa (1), and River Gee (1) Counties
- ☞ Reported causes: Birth asphyxia (11), Respiratory disorder (1), Prematurity (1), Malaria (1)
- ☞ Reported sites:
  - Health facility (14/14) 100 %
- ☞ Cumulatively, four hundred ninety-two (492) deaths reported
  - Proportion of deaths reviewed 31% (152/492)

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

- ☞ Fifteen (15) cases were reported from Sinoe (7), Lofa (4), Grand Gedeh (1), Grand Cape Mount (1), Maryland (1), and Rivercess (1) Counties
- ☞ All were classified as non-serious
- ☞ Related vaccine:
  1. Penta (6/15) 40%
  2. BCG (4/15) 27%
  3. Measles (3/15) 20%
  4. OPV-3 (1/15) 7%
  5. Unknown (1/15) 7%
- ☞ Cumulatively, six hundred fifty-three (653) events were reported.

#### Neglected Tropical Diseases

##### YAWS

- ☞ Zero cases were reported

##### Buruli Ulcer

- ☞ Zero cases were reported

## Border Surveillance Update

A total of 5501 travelers were recorded from eight (8) designated out of Forty-five (45) official POEs with incoming travelers accounting for 49% (2704/5501)

**Table 7: Border activity at the PoE for incoming and outgoing travelers, Liberia, Epi week 29**

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
Airport	James S. Paynes	0	0	0	0	0	0	0	0
	Robert Int'l Airport	4557	2175	2382	4376	0	42	6	0
Seaport	Freeport of Monrovia	214	107	107	214	0	0	0	0
	Buchanan Port	74	37	37	74	0	0	0	0
Ground Crossing	Bo Water Side	476	274	202	474	0	2	0	0
	Ganta	80	53	27	31	0	0	0	0
	Yekepa	100	58	42	15	0	0	0	0
	Loguatu	0	0	0	0	0	0	0	0
Total		5,501	2704	2797	5184	0	44	6	0

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

## Public Health Measures

### National level

- ☞ Providing remote technical and operational support to counties
- ☞ Produced and disseminated situation reports (Lassa fever, Measles, and Mpox outbreaks)
- ☞ Produced and disseminated weekly bulletin

### County-level

#### Surveillance

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

#### Case Management

- ☞ Administration of PEP
- ☞ Management of measles and Lassa fever cases ongoing in affected counties

**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	Manyland	Montserrado	Nimba	Rivercess	River Gee	Sinoe	Total Weekly	Cumulative Reported	Cumulative Lab-confirmed	
<b>No. of Expected Health District</b>		4	9	5	8	5	6	5	6	4	6	7	11	6	6	10	98			
<b>No. of Health District Reported</b>		4	9	5	8	5	6	5	6	4	6	7	11	6	6	10	98			
<b>Vaccine Preventable Diseases</b>	Acute Flaccid Paralysis (Suspected Polio)	A	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	71	0
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Measles	A	0	0	2	0	1	0	0	2	0	0	0	10	0	2	1	18	1,250	50
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Neonatal Tetanus	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	0
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0
	Yellow fever	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	61	0
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Viral Hemorrhagic Fe</b>	Dengue fever	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	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	4	0	0	0	0	0	0	0	0	1	1	0	0	0	6	127	2
		D	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	0
<b>Influenza-Like</b>	COVID-19	A	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	3	2
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Influenza Like Illnesses	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	71	0
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Diarrheal Disease</b>	Acute Bloody Diarrhoea (Shigellosis)	A	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	2	244	0
		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	0	0	0	0	0	1	1	0	0	0	0	0	0	0	2	170	0
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Events of Public Health In</b>	Maternal Mortality	D	1	0	1	0	0	0	0	1	0	5	0	0	0	0	8	188		
	Neonatal Mortality	D	0	0	0	0	0	0	1	0	0	9	3	0	1	0	14	491		
	AEFI	A	0	0	0	1	1	0	4	1	0	0	0	1	0	7	15	653	0	
		D	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	
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Other Reportable Diseases</b>	Mpox	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48	2	
		D	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	20	0
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Human Exposure to Rabies (Suspected Human)	A	0	6	0	5	0	2	6	4	2	1	10	14	3	1	1	55	1,691	0
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
	Meningitis	A	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	2	19	1
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Unexplained Cluster of deaths	A	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		
<b>Neglected Tr</b>	Buruli Ulcer	A	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	
	Yaws	A	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	
<b>TOTAL</b>		2	11	2	6	0	4	0	14	0	1	0	28	0	4	9	126	5147	7	

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 of 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 of 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

Ralph W. Jetoh, MD, MPH  
**Director**

Infectious Disease and Epidemiology Division  
National Public Health Institute of Liberia  
Republic of Liberia

Email: [ralphica2000@gmail.com](mailto:ralphica2000@gmail.com)

Phone: +231 886526388/777372655

Website: [www.nphil.gov.lr](http://www.nphil.gov.lr)

## 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.