



# Liberia IDSR Epidemiology Bulletin

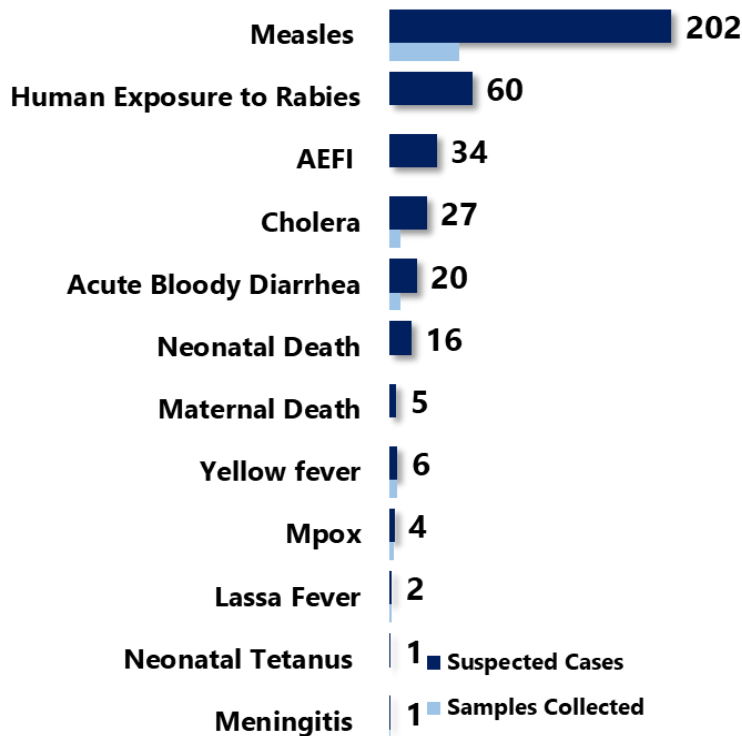
Epi-week 10 (March 6-12, 2023)

Country Population: 5,104,413 | Volume 18 Issue 10 | March 6-10, 2023

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 **378 events** of public health importance including **23 deaths** reported
- ◆ **Completeness and timeliness** of health facility reports were **100% and 99%**
- ◆ **Ongoing Lassa fever** outbreak in 4 Counties
- ◆ **Ongoing Measles** outbreak in 13 Counties
- ◆ **Ongoing Mpox** outbreak in 2 Counties

Adverse Events Following Immunization/Adverse Drug Reaction

## Reporting Coverage

Table 1: Health Facility Weekly IDSR Reporting Coverage, Liberia, Epi-week 10, 2023

County	Expected Reports From HF*	Reports Received	Received on Time	Completeness (%)	Timeliness (%)
Bomi	28	28	28	100	100
Bong	67	67	67	100	100
Gbarpolu	18	18	18	100	100
Grand Bassa	37	37	37	100	100
Grand Cape Mount	34	34	34	100	100
Grand Gedeh	24	24	24	100	100
Grand Kru	24	24	24	100	100
Lofa	60	60	60	100	100
Margibi	66	66	66	100	100
Maryland	28	28	28	100	100
Montserrado	418	418	410	100	98
Nimba	91	91	91	100	100
Rivercess	21	21	21	100	100
River Gee	20	20	20	100	100
Sinoe	41	41	41	100	100
<b>Liberia</b>	<b>977</b>	<b>977</b>	<b>969</b>	<b>100</b>	<b>99</b>

977(100%)  
Health facilities reported IDSR data

969(99%)  
Health facilities reported timely IDSR

93 (100%)  
Health districts reported IDSR data

◆ The national target for weekly IDSR reporting is 80%. Health facility timeliness is monitored at the health district level

Legend: ≥80 <80



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## Vaccine-Preventable Diseases

### Measles

- Two hundred two (202) suspected cases were reported from 15 Counties (see distribution in table 2)
- Fifty (50) specimens collected and pending testing
- One hundred thirty-seven (137) were vaccinated (see distribution in table 3)

Table 2: Distribution of Measles cases per county and epi-classification, Liberia, Epi week 10, 2023

COUNTY	CURRENT WEEK		CUMULATIVE DEATHS	CLASSIFICATION OF CONFIRMED CASES wk 1-10			CUMULATIVE CONFIRMED CASES WEEK 1-10	CFR (%)
	SUSPECTED	LAB CONFIRMED		Lab confirmed	Epi-Linked	Clinically Compatible		
Bomi	4	0	0	2	28	4	38	0.0
Bong	11	0	1	2	84	14	100	1.0
Gbarpolu	0	0	0	0	14	12	26	0.0
Grand Bassa	7	0	0	0	80	0	80	0.0
Grand Cape Mount	9	0	0	1	27	1	29	0.0
Grand Gedeh	15	0	0	0	7	57	64	0.0
Grand Kru	21	0	2	0	380	1	381	0.5
Lofa	5	0	0	0	24	9	33	0.0
Margibi	17	0	0	0	82	1	83	0.0
Maryland	33	0	0	0	261	1	262	0.0
Montserrado	51	0	0	1	318	2	321	0.0
Nimba	14	0	2	1	120	0	121	1.7
River Gee	12	0	0	0	21	13	34	0.0
Rivercess	0	0	0	0	10	2	12	0.0
Sinoe	3	0	0	2	10	26	38	0.0
<b>Total</b>	<b>202</b>	<b>0</b>	<b>5</b>	<b>9</b>	<b>1466</b>	<b>143</b>	<b>1618</b>	<b>4</b>

Table 3: Vaccination Status of Measles Cases, Liberia, Epi week 10, 2023

County	Vaccinated	Number of Doses Received		
		One Dose	Two Doses	Doses Not indicated
Bomi	3	1	2	0
Bong	9	3	1	5
Gbarpolu	0	0	0	0
Grand Bassa	6	4	1	1
Grand Cape Mount	8	6	2	0
Grand Gedeh	6	5	0	1
Grand Kru	11	10	1	0
Lofa	5	5	0	0
Margibi	17	17	0	0
Maryland	1	1	0	0
Montserrado	48	36	12	0
Nimba	11	11	0	0
River Gee	10	2	4	4
Sinoe	2	1	1	0
<b>Total</b>	<b>137</b>	<b>102</b>	<b>24</b>	<b>11</b>



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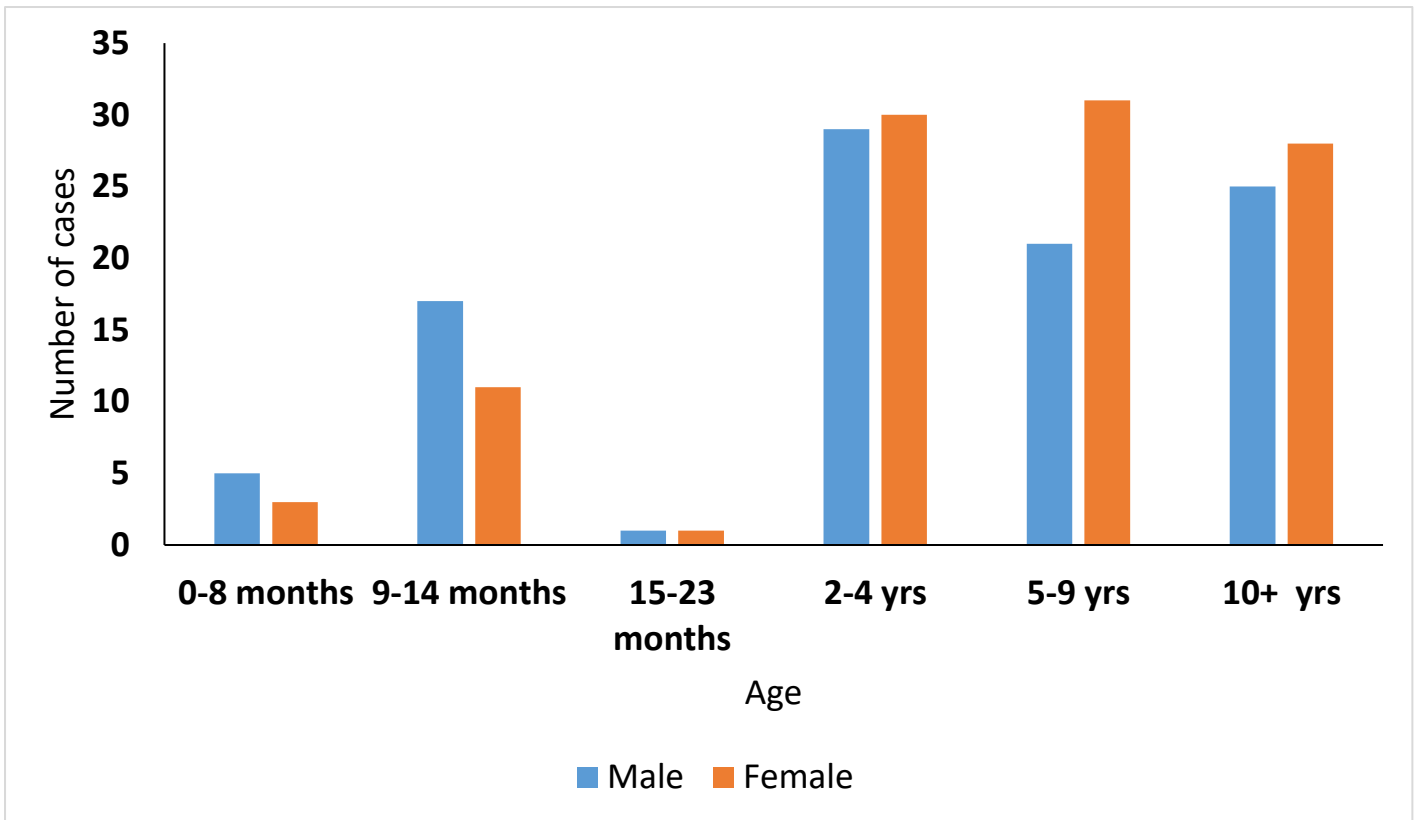


Figure 2: Distribution of Measles Cases by Age and Sex, Liberia Epi week 10, 2023

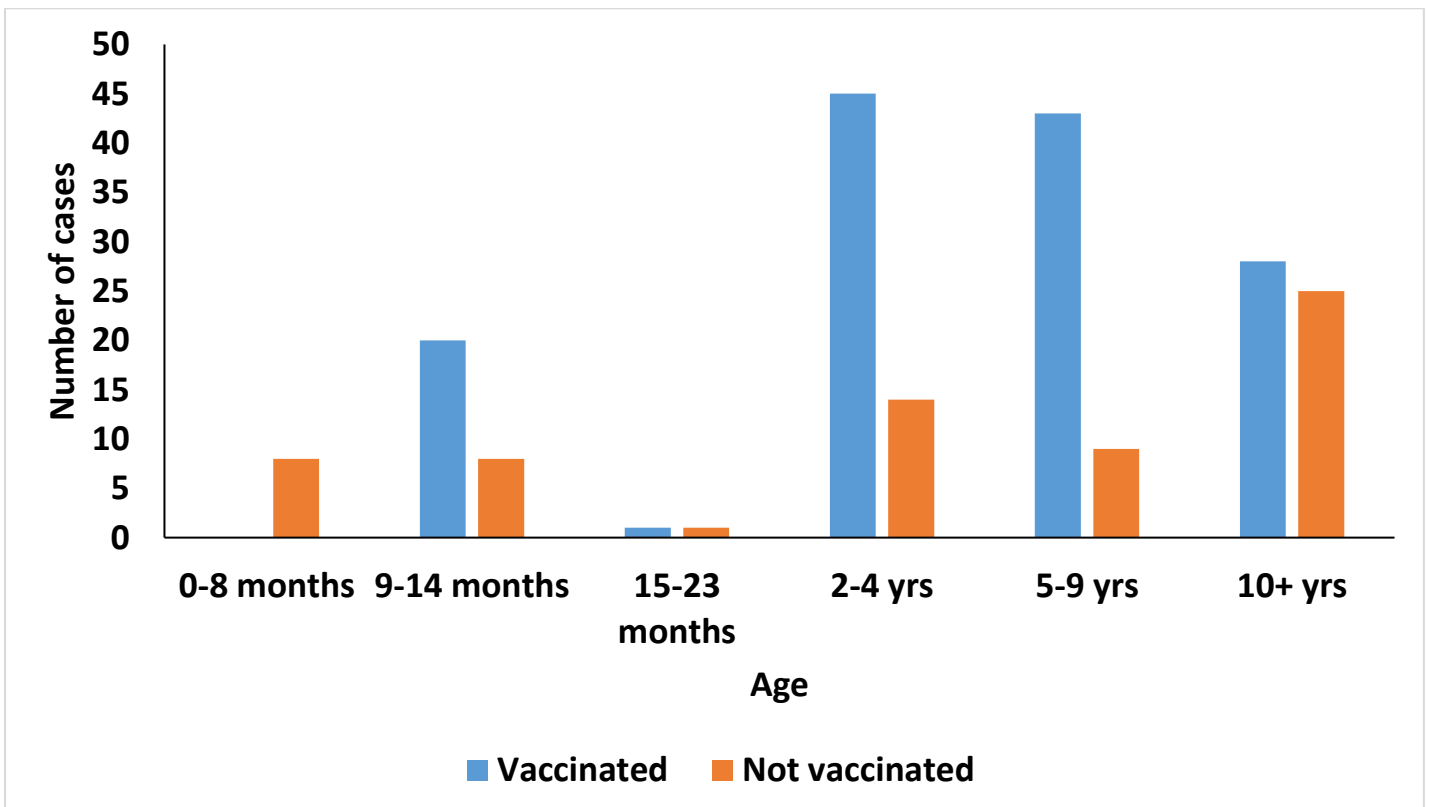


Figure 3: Vaccination Status of Measles Cases by Age group, Liberia, Epi-week 10, 2023



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## Outbreak Section

**Table 4: Summary Distribution of Measles Cases and Deaths, December 13, 2021- March 12, 2023**

County	Cumulative Suspected Cases	Cumulative Confirmed Cases	Classification of confirmed cases			Classification of Confirmed deaths			Cumulative Deaths	CFR (%)	# of confirmed cases	# of confirmed cases week 10	% Change	Outbreak Status
			Lab-confirmed	Epi-linked	Clinically compatible	Lab-confirmed	Epi-linked	Clinically compatible						
Montserrado	4,690	4,628	141	4,333	154	3	61	3	67	1.6	57	51	-11	Ongoing
Nimba	893	865	37	790	38	0	0	2	3	0.1	15	14	-6	Ongoing
Margibi	696	675	33	634	8	0	1	1	1	0	17	17	0	Ongoing
Grand Bassa	853	816	40	674	102	1	6	0	7	1	10	7	-0.3	Ongoing
Lofa	270	210	32	139	39	0	0	0	0	0	3	2	-33	Ongoing
Bong	474	454	19	390	45	0	1	2	3	0.6	10	10	0	Ongoing
Maryland	639	631	22	590	19	0	0	0	0	0	12	33	175	Ongoing
Grand Gedeh	279	166	30	103	33	0	0	0	0	0	6	15	150	Ended
Sinoe	199	161	33	58	70	0	0	0	0	0	6	0	-100	Ended
Bomi	144	119	33	70	16	1	2	2	5	7.4	8	4	-96	Ongoing
Grand Cape Mount	173	153	16	110	27	0	2	1	3	2.7	3	5	67	Ongoing
Grand Kru	625	599	16	577	6	0	2	0	2	0	40	21	-48	Ongoing
Gbarpolu	84	70	5	60	5	0	0	0	0	0	4	0	-100	Ongoing
Rivercess	102	83	22	54	7	0	1	0	1	1.3	0	0	0	Ongoing
River Gee	20	10	3	0	7	0	0	0	0	0	6	6	0	Ongoing
<b>Total</b>	<b>10,141</b>	<b>9,640</b>	<b>482</b>	<b>8,582</b>	<b>576</b>	<b>5</b>	<b>76</b>	<b>11</b>	<b>92</b>	<b>1.5</b>	<b>206</b>	<b>185</b>		

## Public Health Response

### I Coordination

- Response efforts have been coordinated by CHTs with support from partners

### II. Epidemiological Surveillance

- Surveillance activities have been intensified at all levels in affected counties (Margibi, Gbarpolu, Grand Kru, Maryland, Nimba, and Grand Bassa).
- Active case search
- Line listing of cases

### III. Case Management

- Patients were managed at the health facility and sent for home-based isolation (Bong, Grand Cape Mount, Grand Bassa, Bomi, Maryland, Lofa, Montserrado, and Nimba)

### IV. Laboratory

- Specimens were collected from eight (8) districts in five (5) counties for testing (Bomi-Senjah, GCM-Garwula, Tewor, Grand Gedeh-B'hai, Tchien, Cavalla, Sinoe-Kpanyan).

### V. Immunization

- Measles vaccine outreach is ongoing in affected and surrounding communities in Bong County

### VI. Risk Communication and Community Engagement

- Community advocacy meetings with local leaders and family members in the affected communities ongoing in Grand Kru County.
- Engagement with community stake holders on measles prevention ongoing and control of Measles at the health facility and community levels in Montserrado, and Grand Kru Counties

## Acute Flaccid Paralysis (AFP)

- ☞ Zero (0) cases were reported
- ☞ Cumulatively, eleven (11) cases were reported



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## Neonatal Tetanus

- ☞ One (1) case was reported from Lofa County
- ☞ Cumulatively, thirteen (13) cases reported

## Influenza-Like Illnesses

### Coronavirus Disease (COVID-19)

#### Outbreak

- ☞ No new confirmed cases reported
- ☞ Cumulatively, eight thousand twenty-two (8,022) confirmed cases including 294 deaths
  - 601 healthcare workers
- ☞ A total of 17,827 contacts have been generated
  - 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

## Viral Hemorrhagic Diseases

### Lassa fever

- ☞ Two (2) suspected cases were reported from Montserrado, and Nimba Counties
- ☞ Specimens were collected: 1 tested positive (Nimba) and 1 negative
- ☞ Cumulatively, sixty-four (64) suspected cases reported
  - Proportion of suspected cases with a sample collected (54/64) 84%
  - Proportion of suspected cases with sample tested (54/54) 100%
  - Case fatality rate: CFR (6/24) 25%

## Current Outbreak

### Lassa fever disease

- ☞ One (1) new confirmed case was reported
- ☞ Ninety (90) contacts under 21 days' follow-up
- ☞ Cumulatively, sixty-seven (67) laboratory-confirmed cases including 16 deaths reported (CFR=25%)

**Table 5: Description of Confirmed Lassa fever Case, Liberia, March 12, 2023**

Age (Yrs)	Sex	Outcome	Occupation	Community of resident	District of outbreak	Reporting County	Date of Onset	Date of Admission	Hospital	Date specimen collected	Date specimen sent to Lab.	Date ribavirin initiated	Date case confirmed	Total contacts	Total HCWs contacts
17	F	Alive	Student	Dekpeh Ville	Tappita	Nimba	23-Feb-23	8-Mar-23	J.F.D hospital	9-Mar-23	9-Mar-23	9-Mar-23	13-Mar-23	39	35



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**Table 6: Summary of Lassa fever Outbreak, Liberia, January 6, 2022-March 12, 2023**

County	Outbreak Dates	District of Outbreak	Total suspected cases	Total confirmed cases	Total confirmed cases in HCWs	Total Deaths	CFR %	Total contacts	Total HCWs contacts	Total contact completed	Total contacts under follow-up
Bong	Jan. 6, 2022, to date	Suakoko	108	38	8	8	21	366	200	358	8
Nimba	Feb. 6, 2023	Sanniqueлие-Mah	3	3	0	0	0	82	70	43	39
Grand Bassa	Sept. 9, 2022 to date	District #3 A&B	46	23	0	6	26	121	19	114	7
Mont	13-Feb-23	Central Monrovia	4	3	0	2	67	46	15	10	36
<b>Total</b>		<b>4</b>	<b>161</b>	<b>67</b>	<b>8</b>	<b>16</b>	<b>24</b>	<b>615</b>	<b>304</b>	<b>525</b>	<b>90</b>

## Public Health Measures

- NPHIL continues to provide technical support to the affected counties

### I. Surveillance:

- Heightened case detection and reporting in affected communities and districts
- Situational reports are produced and shared regularly at the National Level
- Daily follow-up/monitoring of contacts

### II. RCCE

- Health Education in affected and surrounding communities
- Health workers and visitors are encouraged to enhance IPC practices by regular washing of hands

### III. Case Management

- Cases isolated and ribavirin treatment administered

### IV. IPC

- Affected communities were empowered with the WASH package to enable them to undertake short-term interventions that will improve the sanitation situation in each community thereby helping in Lassa fever prevention and control

## Yellow fever

- ☞ Six (6) cases were reported from Grand Gedeh (2), Grand Kru (1), River Gee (1), Lofa (1), and Grand Bassa (1) Counties
- ☞ Specimens were collected and pending testing
- ☞ Cumulatively, eighteen (18) suspected cases reported
  - Proportion of suspected cases with samples collected (18/18) 100%
    - Three samples were collected but not transported (Epi week 5 from Grand Gedeh, River Gee, and Grand Kru Counties)
  - Proportion of samples collected and tested (8/18) 44%
    - Negative- 8

## Ebola Virus Disease

- ☞ Zero suspected cases reported

## Diarrheal Diseases

### Acute Bloody Diarrhea (Suspected Shigellosis)

- ☞ Twenty (20) cases were reported from Lofa (5), Margibi (4), Sinoe (4), Rivercess (3), River Gee (2), Grand Kru (1), and Nimba (1) Counties
- ☞ Eight (8) specimens were collected: 1 tested negative, 7 pending testing, and 1 not transported from Lofa



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- Cumulatively, one hundred (100) cases reported
- Negative-19

## Severe Acute Watery Diarrhea (Suspected Cholera)

- Twenty-seven (27) cases were reported from Lofa (7), River Gee (5), Margibi (3), Sinoe (3), Nimba (3), Bong (2), Rivercess (1), Grand Gedeh (1), Grand Kru (1), and Grand Bassa (1) Counties
- Eight (8) specimens were collected and pending testing
- Cumulatively, one hundred twenty-nine (129) suspected cases reported
- Negative-7

## Other Reportable Diseases

### Animal bite (Human Exposure to Rabies)

- Sixty (60) animal bite cases were reported:

**Table 7: Distribution of Animal bite cases and PEP administration per county, Liberia, Epi week 10, 2023**

Counties	Cases	Person receiving PEP	PEP doses administered	Cumulative cases (Wk 1-10)	Cumulative PEP administered (Wk 1-10)
Bomi	2	2	2	13	3
Bong	4	1	1	32	10
Gbarpolu	3	0	0	8	0
Grand Bassa	6	0	0	48	3
Grand Cape Mount	0	0	0	18	3
Grand Gedeh	4	0	0	25	1
Grand Kru	13	0	0	64	15
Lofa	8	4	4	41	7
Margibi	2	0	0	32	14
Maryland	0	0	0	16	9
Montserrado	6	1	1	105	52
Nimba	6	2	2	61	14
Rivercess	2	0	0	11	2
River Gee	1	0	0	22	0
Sinoe	2	0	0	19	1
<b>Total</b>	<b>60</b>	<b>10 (17%)</b>	<b>10</b>	<b>515</b>	<b>134(26%)</b>
Legend	1-2 doses		3-4 doses		5 doses

## Public Health Actions

- Ongoing monitoring and follow-up of cases

## Meningitis

- One case (dead) was reported from Margibi County
- No specimen was collected
- Cumulatively, eight (8) suspected cases reported
  - Proportion of suspected cases with samples collected (6/8) 75%
  - Proportion of sample tested (5/8) 63%

## Mpox

- Four (4) suspected cases were reported from Maryland (2), Sinoe (1), and Lofa (1) Counties
- Three (3) Specimens were collected: 3 tested negative
- Cumulatively, thirty (30) suspected cases reported



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Four confirmed: Rivercess (2), and Grand Cape Mount (2)

**Table 8: Summary of Mpox Outbreak, Liberia, December 5, 2022 – March 12, 2023**

County	Outbreak Start Date	Outbreak Districts	Total suspected cases	Total confirmed cases	Total Deaths	CFR %	Total Contacts	# HCW contacts	Contacts under follow up	Contacts completed
Grand Cape Mount	Feb.24 to date	Garwula	2	2	0	0.0	6	0	6	0
Rivercess	Dec. 5 to date	Central "C"	3	1	0	0.0	16	2	0	16
	Dec. 5 to date	Jo River	1	1	0	0.0	6	2	0	6

## Outbreak

### Mpox:

- No new confirmed case
- Total of 6 confirmed cases reported
- Counties currently in outbreak: 2

## Public Health Measures

### I. Coordination

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

### II. Epidemiological Surveillance

- Active case search, case investigation, and contact tracing ongoing in the affected and neighboring communities and districts
- Development and dissemination of Sitrep by affected county and national

### III. Case management and IPC

- Symptomatic treatment of the suspected case initiated
- IPC measures instituted in affected communities and schools

### IV. Risk Communication and Community Engagement

- Community engagement and awareness with local leaders and community health development committees in the affected community and surrounding towns ongoing

## Key Challenges

- No support from county-based partners for response activities
- Limited IPC materials for response activities
- Limited copies of Mpox standard case definitions

## Events of Public Health Importance

### Maternal Mortality

- Five (5) deaths were reported from Montserrado (3), and Lofa (2) Counties
- Reported causes: Sepsis (2), PPH (1), Hypovolemic shock (1), and Hepatitis B (1)
- Reported sites:
  - Health facility: 5/5 (100%)





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- ☞ Cumulatively, fifty-four (54) deaths reported
  - Proportion of death reviewed (23/54) 43%
  - Proportion of community death (11/54) 20%

## Neonatal Mortality

- ☞ Sixteen (16) deaths were reported: Montserrado (5), Lofa (3), Margibi (2), Nimba (2), Grand Kru (1), Gbarpolu (1), Rivercess (1), and Sinoe (1) Counties
- ☞ Reported causes: Birth Asphyxia (7), Sepsis (5), Prematurity (3) and Congenital malaria (1)
- ☞ Reporting sites:
  - Health facility: 15/16 (94%)
  - Community: 1/16 (6%)
- ☞ Cumulatively, one hundred eighteen (118) deaths reported

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

- ☞ Thirty-four (34) cases were reported from Grand Cape Mount (17), Bomi (5), Rivercess (4), Grand Gedeh (3), Lofa (2) Grand Kru (1), Sinoe (1), and River Gee (1), Counties
- ☞ All reported cases were non-serious
- ☞ Related vaccine:
  - COVID-19 (23/34) 68%
  - Measles (5/34) 15%
  - TT (3/34) 9%
  - Penta (2/34) 6%
  - BCG (1/34) 3%
- ☞ Cumulatively, ninety-one (91) events were reported and COVID-19 accounted for (52/91) 57%

## Border Surveillance Update

- ☞ A total of 5,506 travelers were recorded for the week with incoming travelers accounting for 49% (2,688/5,506)

**Table 9: Border activity at the PoE for Incoming and Outgoing Travelers, Liberia Epi week 10, 2023**

Type of Ports	Point of Entry	Weekly total	Arrival	Departure	Total travellers 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	28	12	16	5	0	0	0	0	0	5
	Robert Int'l Airport	4129	2125	2004	4069	52	0	8	0	0	4067
Seaport	Freeport of Monrovia	206	103	103	206	0	0	0	0	0	206
	Buchanan Port	116	58	58	116	0	0	0	0	0	116
Land Crossing	Bo Water Side	662	276	386	649	0	0	4	0	0	658
	Ganta	217	53	164	122	0	0	36	0	0	114
	Yekepa	46	28	18	39	0	0	0	0	0	39
	Loguatu	102	33	69	89	0	0	0	0	0	76
<b>Total</b>		<b>5,506</b>	<b>2,688</b>	<b>2,818</b>	<b>5,295</b>	<b>52</b>	<b>0</b>	<b>48</b>	<b>0</b>	<b>0</b>	<b>5,281</b>

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



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## Public Health Measures

### National level

- ☞ Completed health facility spot-check in Bushrod, Central Monrovia, and Commonwealth Districts, Montserrado County
- ☞ IDSR data harmonization ongoing in all 15 Counties
- ☞ Ongoing supportive supervision in 3 Maryland, River Gee, and Grand Kru Counties

### County-level

#### ☞ Coordination

- Ongoing IMS meetings in outbreak counties
- Partner coordination and resource mapping

#### ☞ 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

		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		
<b>No. of Expected Health District</b>		4	9	5	8	5	6	5	6	4	6	7	6	6	6	10	93				
<b>No. of Health District Reported</b>		4	9	5	8	5	6	5	6	4	6	7	6	6	6	10	93				
<b>Vaccine Preventable Diseases</b>	Acute Flaccid Paralysis (Suspected Polio)	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0	
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Measles	A	4	11	0	7	9	15	21	5	17	33	51	14	0	12	3	202	1,416	9	
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	
	Neonatal Tetanus	A	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	9	0	
		D	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	3	0	
	Yellow fever	A	0	0	0	1	0	2	1	1	0	0	0	0	0	1	0	6	12	0	
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	<b>Viral Hemorrhagic Diseases</b>	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	0	0	0	0	0	0	0	0	0	1	1	0	0	0	2	54	18	
		D	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	8	5	
<b>Influenza-Like Diseases</b>	COVID-19	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	
	Influenza Like Illnesses	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Diarrheal Diseases</b>	Acute Bloody Diarrhoea (Shigellosis)	A	0	0	0	0	0	1	5	4	0	0	1	3	2	4	20	102	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	2	0	1	0	1	1	7	3	0	0	3	1	5	3	27	92	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 Interest</b>	Maternal Mortality	D	0	0	0	0	0	0	2	0	0	3	0	0	0	0	5	49			
		D	0	0	1	0	0	0	1	3	2	0	5	2	1	0	1	16	82		
	AEFI	A	5	0	0	0	17	3	1	2	0	0	0	4	1	1	34	57	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	
<b>Other Reportable Diseases</b>	Mpox	A	0	0	0	0	0	0	1	0	2	0	0	0	0	1	4	26	4		
		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 Ra+ <sup>1</sup> bbies (Suspected Human Rabies)	A	2	4	3	6	0	4	13	8	2	0	6	6	2	1	2	59	455	0	
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Meningitis	A	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	7	0	
		D	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	
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		
<b>Neglected Tropical Diseases</b>	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	
<b>TOTAL</b>		11	17	4	15	0	25	0	35	0	35	0	27	0	23	15	380	2395	27		

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

D = Dead A = Alive

## Notes

- ☞ **Completeness** refers to the proportion of expected weekly IDSR reports received (target: ≥80%)
- ☞ **Timeliness** refers to the proportion of expected weekly IDSR reports received by the next level on time (target: ≥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: ≥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.