



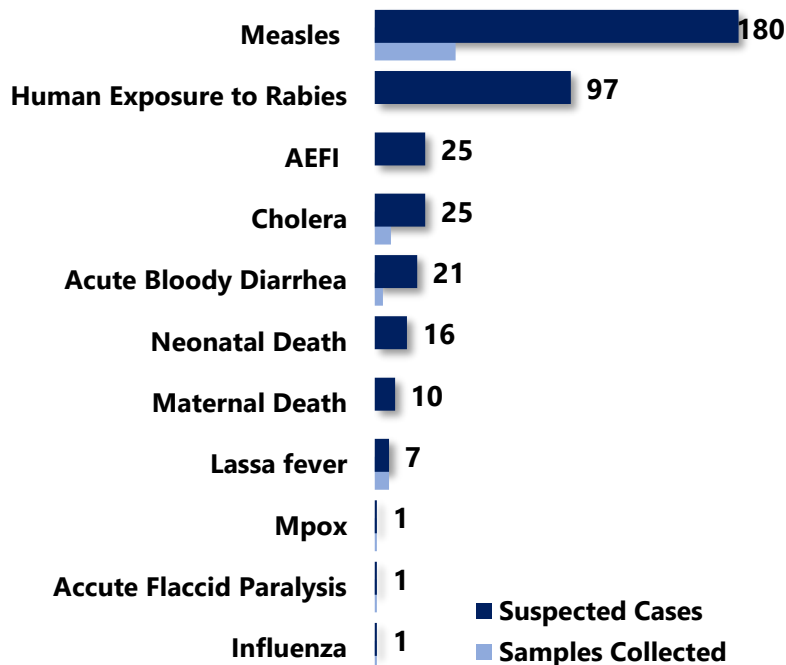
Liberia IDSR Epidemiology Bulletin

Epi-week 15 (April 10-16, 2023)

Country Population: 5,104,413 | Volume 18 Issue 15 | April 10-16, 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 **384 events** of public health importance including **27 deaths** reported
- ◆ **Completeness and timeliness** of health facility reports were **99 %** and **99%**
- ◆ **Ongoing Lassa fever** outbreak in 4 Counties
- ◆ **Ongoing Measles** outbreak in 14 Counties
- ◆ **Ongoing Mpox** outbreak in 1 County

Adverse Events Following Immunization/Adverse Drug Reaction (AEFI)

Reporting Coverage

Table 1: Health Facility Weekly IDSR Reporting Coverage, Liberia, Epi-week 15, 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	403	403	96	96
Nimba	92	92	92	100	100
Rivercess	21	21	21	100	100
River Gee	20	20	20	100	100
Sinoe	41	41	41	100	100
Liberia	978	963	963	99	99

963(99%)
Health facilities reported IDSR data

98(100%)
Health districts reported IDSR data

963 (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 reported on time to the national level

Legend: ≥80 <80

Vaccine-Preventable Diseases

Measles

- ☞ One hundred eighty (180) suspected cases were reported from 15 Counties (see distribution in table 2)
- ☞ Forty (40) specimens collected and pending testing
- ☞ Two hundred fifteen (115) were vaccinated (see distribution in table 3)

Table2: Distribution of Measles cases per county and epi-classification, Liberia, Epi week 15, 2023

COUNTY	CASES WEEK 15	Lab confirmed EPI WEEK 15	CLASSIFICATION OF CONFIRMED CASES, EPI WEEK 1-15			DEATHS	CFR (%)	CUMULATIVE # SUSPECTED CASES, EPI WEEK 1-15	CUMULATIVE # CONFIRMED CASES, EPI WEEK 1-15
			Lab confirmed	Epi Linked	Clinically Compatible				
Bomi	1	0	2	13	31	0	0.0	53	46
Bong	5	0	2	6	138	1	0.7	146	146
Gbarpolu	2	0	0	0	28	0	0.0	29	28
Grand Bassa	2	0	0	0	121	0	0.0	121	121
Grand Cape Mount	4	0	1	2	44	0	0.0	54	47
Grand Gedeh	11	0	3	26	97	0	0.0	156	126
Grand Kru	21	0	4	69	483	2	0.4	557	556
Lofa	4	0	0	0	47	0	0.0	52	47
Margibi	7	0	1	7	142	0	0.0	152	150
Maryland	31	0	0	0	396	0	0.0	398	396
Montserrado	66	0	4	50	598	0	0.0	659	652
Nimba	16	0	1	33	168	3	1.5	204	202
River Gee	4	0	0	0	53	0	0.0	67	53
Rivercess	0	0	1	0	23	0	0.0	29	24
Sinoe	6	0	3	11	41	0	0.0	66	55
Grand Total	180	0	22	217	2410	6	3	2743	2649

Table 3: Vaccination Status of Measles Cases, Liberia, Epi week 15, 2023

County	Vaccinated	Number of Doses Received		
		One Dose	Two Doses	Doses Not indicated
Bomi	1	0	1	0
Bong	5	4	0	1
Gbarpolu	2	2	0	0
Grand Bassa	1	0	0	1
Grand Cape Mount	4	2	2	0
Grand Gedeh	6	5	1	0
Grand Kru	2	2	0	0
Lofa	4	0	0	4
Margibi	6	6	0	0
Maryland	8	4	3	1
Montserrado	54	41	13	0
Nimba	12	6	6	0
River Gee	4	0	0	4
Rivercess	0	0	0	0
Sinoe	6	1	0	5
Grand Total	115	73	26	16

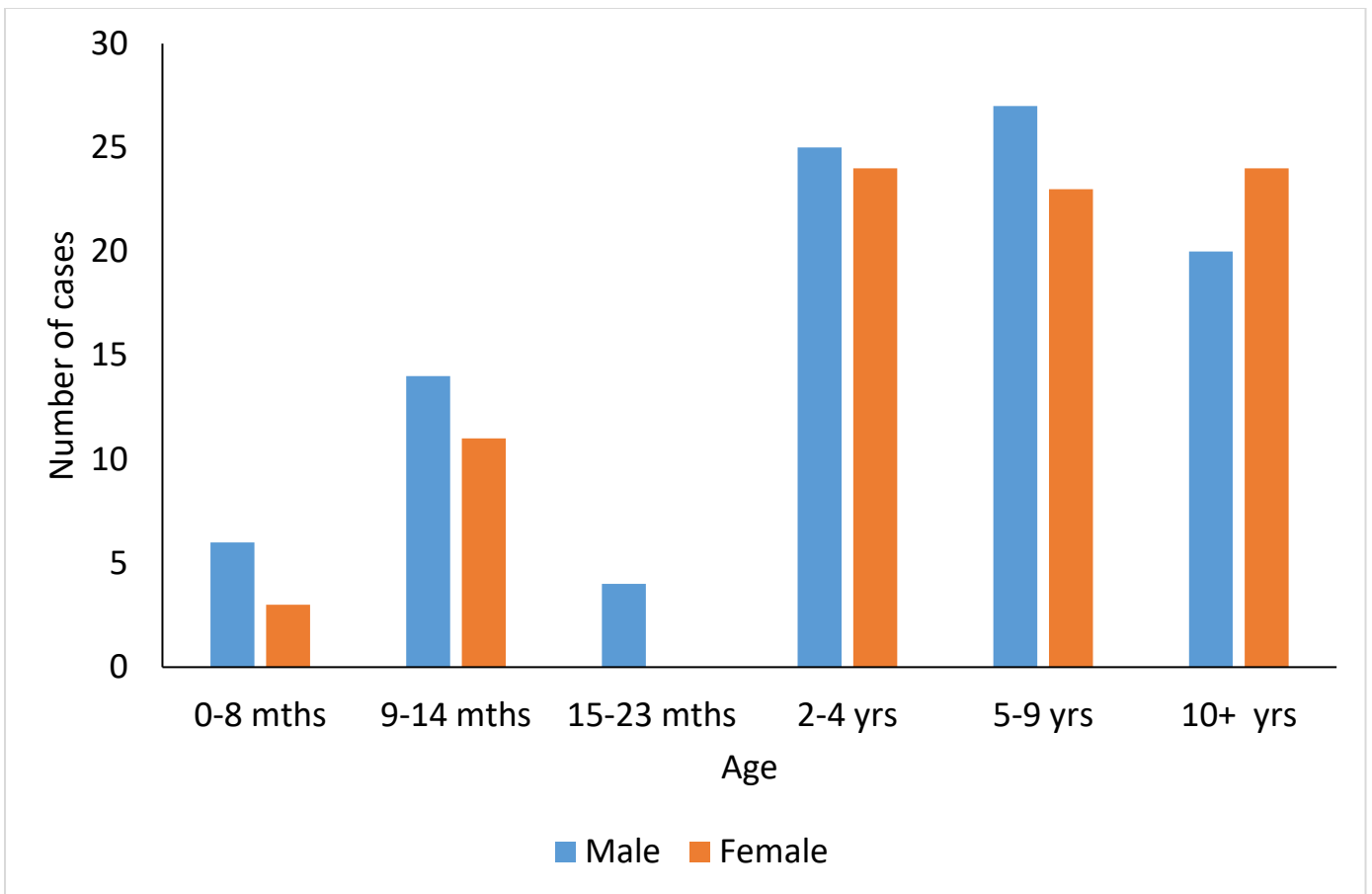


Figure 2: Distribution of Measles Cases by Sex, Liberia Epi Week 15, 2023

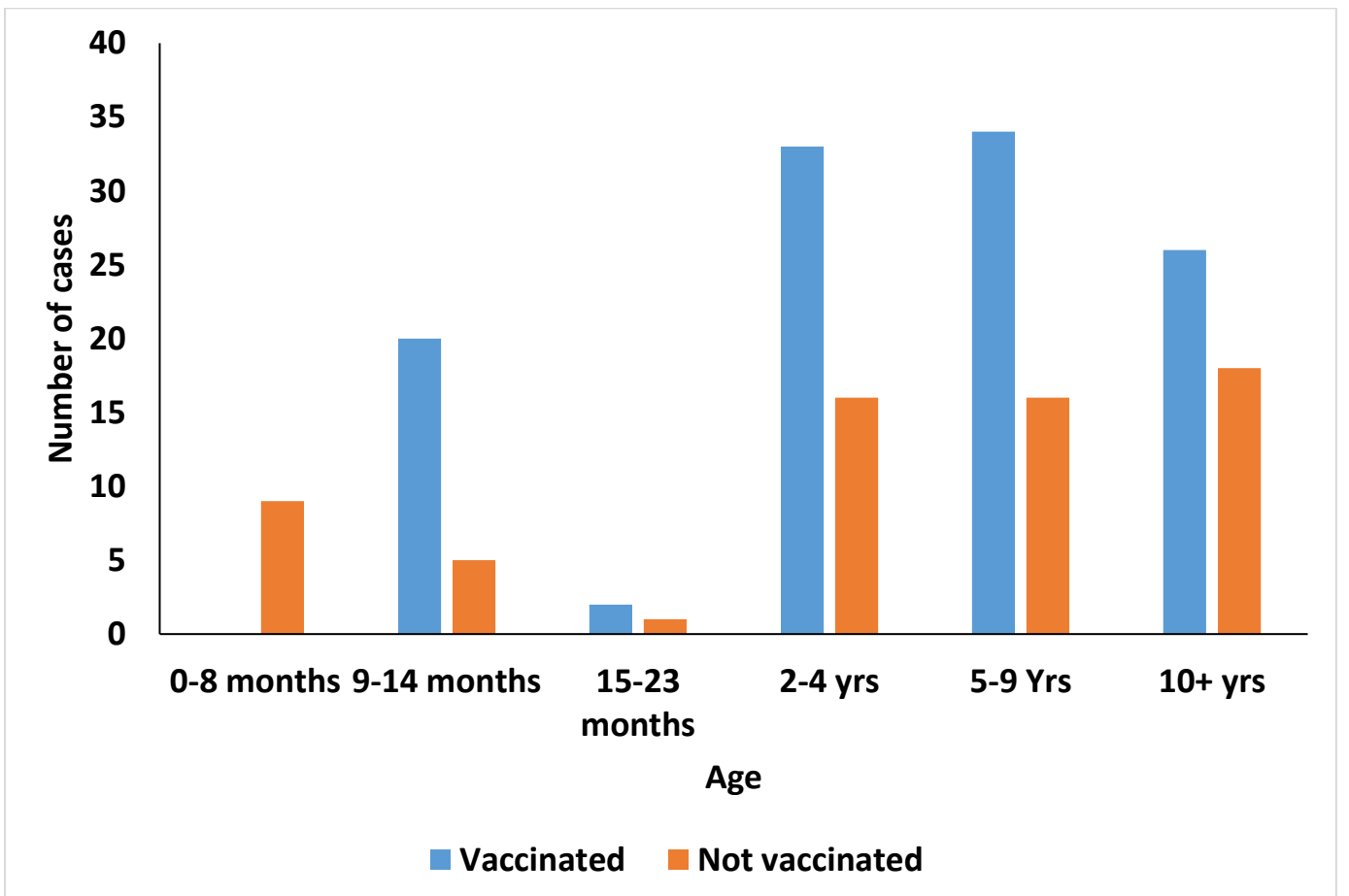


Figure 3: Vaccination Status of Suspected Measles Cases by Age group, Liberia, Epi-Week 15, 2023

Table 4: Cumulative Distribution of Measles Cases and Deaths, December 13, 2021- April 16, 2023

COUNTY	CUMULATIVE SUSPECTED CASES	CUMULATIVE CONFIRMED CASES	CLASSIFICATION OF CONFIRMED CASES			CLASSIFICATION OF CONFIRMED DEATHS			CUMULATIVE DEATHS	CFR (%)	# CONFIRMED CASES WEEK 14	# CONFIRMED CASES WEEK 15	% CHANGE	Outbreak Status
			Lab confirmed	Epi Linked	Clinically Compatible	Lab confirmed	Epi Linked	Clinically Compatible						
Montserrat	5,018	4,956	141	4,449	366	3	61	3	67	1.6	156	66	-57	Ongoing
Nimba	976	948	37	837	74	0	0	4	4	0.1	20	16	-20	Ongoing
Margibi	752	730	33	663	34	0	1	0	1	0	20	7	-93	Ongoing
Grand Bassa	880	843	40	677	126	1	6	0	7	1	23	1	-99	Ongoing
Lofa	288	228	32	141	55	0	0	0	0	0	3	4	33	Ongoing
Bong	513	493	19	413	61	0	1	2	3	0.6	15	4	-73	Ongoing
Maryland	763	755	22	661	72	0	0	0	0	0	22	31	-39	Ongoing
Grand Gedeh	388	275	30	113	132	0	0	0	0	0	24	10	-58	Ongoing
Sinoe	232	181	33	58	90	0	0	0	0	0	2	2	-	Ongoing
Bomi	163	139	33	72	34	1	2	2	5	7.4	4	1	-75	Ongoing
Grd Cape Mt	183	160	16	116	28	0	2	1	3	2.7	0	1	-	Ongoing
Grand Kru	799	773	16	635	122	0	2	0	2	0	42	19	-55	Ongoing
Gbarpolu	86	72	5	60	7	0	0	0	0	0	0	2	-100	Ongoing
Rivercess	102	83	22	54	7	0	1	0	1	1.3	0	0	-	Ended
River Gee	38	28	3	0	25	0	0	0	0	0	7	2	-98	Ongoing
Total	11,181	10,664	482	8,949	1,233	5	76	12	93	1.5	338	166		

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 (Maryland, Grand Gedeh, Lofa, Grand Cape Mount, River Gee, Bomi, and Sinoe).
 - Active case search
 - Line listing of cases

III. Case Management

- Patients were managed at health facilities and sent for home-based (Bomi, Maryland, Montserrado, Grand Gedeh, Grand Kru, Gbarpolu, and Nimba)

IV. Laboratory

- Specimens were collected from 10 districts in eight counties for testing (Bomi-Klay, Grand Gedeh-Putu, Konobo Maryland-Barrobo Whojah, B’hai, Sinoe-Jaedae, GCM-Commonwealth C, Lofa-Foyah, River Gee-Putu, and Gbarpolu-Kokomo).
- Five hundred thirteen (521) cases have been confirmed by the laboratory from December 13, 2021 –April 21, 2023

V. Immunization

- Completed the plan to conduct a mini-vaccination campaign in the 6 health districts in Grand Gedeh County
 - Target age group 7-59 months
 - Targeted 5,927 children to be vaccinated

VI. Immunization

- Awareness and health education are ongoing on the prevention and control of Measles at the health facility awareness

Acute Flaccid Paralysis (AFP)

- ☞ One case was reported from Grand Bassa County
- ☞ Specimen was collected and shipped
- ☞ Cumulatively, seventeen (17) cases were reported
 - Eight (8) tested negative
 - Nine (9) pending

Neonatal Tetanus

- ☞ Zero case was reported
- ☞ Cumulatively, twenty (20) cases including 3 deaths 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

Influenza

- ☞ One (1) suspected case was reported from Bong County
- ☞ Specimen was collected and pending testing
- ☞ Cumulatively, 39 suspected cases reported

Viral Hemorrhagic Diseases

Lassa fever

- ☞ Seven (7) suspected cases were reported from Grand Bassa (3 including 1 death), Nimba (2), and Bong (2) Counties
- ☞ Specimens were collected: 2 tested positive (Grand Bassa), 3 negative, and 2 pending testing
- ☞ Cumulatively ninety-eight (98) suspected cases reported
 - Proportion of suspected cases with a sample collected (88/98) 90%
 - Proportion of suspected cases with sample tested (85/88) 97%

Current Outbreak

Lassa fever disease

- ☞ One (1) new confirmed case was reported
- ☞ Eighteen (18) contacts under 21 days' follow-up
- ☞ Cumulatively, seventy-one (71) laboratory-confirmed cases including 17 deaths reported (CFR=24%)

Table 5: Confirmed Case Reported in Epi week 15

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 specimen confirmed	Total contacts generated	Total HCWs contacts
35 yrs	M	Alive	Tapper	Camp Iwert	District 3AB	G. Bassa	4-Apr-23	11-Apr-23	LAC hospital	11-Apr-23	11-Apr-23	11-Apr-23	13-Apr-23	4 (all family)	0
41 yrs	M	Dead	Tapper	Kpongbah Camp	District 3AB	G. Bassa	6-Apr-23	11-Apr-23	LAC hospital	11-Apr-23	11-Apr-23	11-Apr-23	13-Apr-23	4 (all family)	0

Table 6: Summary of Lassa fever Outbreak, Liberia, Jan 6, 2022 – April 16, 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	110	38	7	7	18	366	120	366	0
Nimba	Feb. 6, 2023 to date	Sanniquellie-Mah & Tappita	9	3	0	1	33	79	52	79	0
Grand Bassa	Sept. 9, 2022 to date	District #3 A&B	52	27	0	7	26	147	28	129	18
Mont	Feb 13, 2023 to date	Central Monrovia	6	3	0	2	67	56	48	56	0
Total		4	177	71	7	17	24	648	248	630	18

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

- Zero case was reported
- Cumulatively thirty-two (32) suspected cases reported
 - Proportion of suspected cases with samples collected (32/32) 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 (11/32) 34%
 - Negative- 11
 - Pending testing -18

Ebola Virus Disease

- Zero suspected case was reported

Diarrheal Diseases

Acute Bloody Diarrhea (Suspected Shigellosis)

- Twenty-one (21) cases were reported from Lofa (5), Grand Kru (4), Grand Gedeh (3), Sinoe (3), Montserrado (2), Nimba (2), Bomi (1), and River Gee (1), Counties
- Four (4) specimens were collected and pending testing
- Cumulatively, one hundred ninety-four (194) cases were reported
 - Eighty-two (82) specimens were collected and 48 received by NPHRL:
 - 40 negative
 - 8 specimens rejected
 - Eight (8) specimens were not transported in epi weeks 8 & 12

Severe Acute Watery Diarrhea (Suspected Cholera)

- Twenty-five (25) cases were reported from Lofa (7), Maryland (6), Montserrado (6), Nimba (2), Rivercess (2), Bomi (1), and Grand Kru (1) Counties
- Eight (8) specimens were collected: 3 tested negative and 5 pending testing
- Cumulatively, two hundred fifty-eight (258) cases reported
 - Seventy-nine specimens collected and 46 received by NPHRL
 - 37 negative
 - 9 rejected
 - Nine (9) specimens were not transported in epi weeks 8 & 12

Other Reportable Diseases

Animal bite (Human Exposure to Rabies)

- Ninety-seven (97) animal bite cases were reported:

Table 7: Distribution of Animal bite cases and PEP administration per county, Liberia, Epi week 15, 2023

Counties	Cases	Person receiving PEP	PEP doses administered	Cumulative cases (Wk 1-15)	Cumulative PEP administered (Wk 1-15)
Bomi	4	4	4	22	11
Bong	5	2	2	81	34
Gbarpolu	0	0	0	10	0
Grand Bassa	3	1	1	76	4
Grand Cape Mount	0	0	0	29	14
Grand Gedeh	2	0	0	37	2
Grand Kru	3	0	0	86	15
Lofa	5	2	2	82	24
Margibi	1	0	0	61	32
Maryland	6	2	2	43	16
Montserrado	44	8	8	231	82
Nimba	14	6	6	113	37
Rivercess	6	6	6	15	11
River Gee	0	0	0	38	0
Sinoe	4	0	0	37	2
Total	97	31 (32%)	31	961	284

Public Health Actions

- ☞ Ongoing monitoring and follow-up of cases

Meningitis

- ☞ Zero was case reported
- ☞ Cumulatively, fifteen (15) suspected cases reported
 - Proportion of suspected cases with samples collected (13/15) 87%
 - Proportion of sample tested (9/10) 90%

Mpox

- ☞ One (1) case was reported from River Gee County
- ☞ Specimen was collected and tested negative
- ☞ Cumulatively, forty-four (44) suspected cases reported
 - Five confirmed:
 - Rivercess (2),
 - Grand Cape Mount (2)
 - Gbarpolu (1)

Outbreak

Mpox:

- ☞ No new confirmed case was reported
- ☞ Total confirmed cases reported: 8
- ☞ Total contacts under follow-up: 7
- ☞ Counties currently in outbreak: 1

Table 8: Summary of Mpox Outbreak, Liberia, Dec 5, 2022 – April 16, 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
Rivercess	Dec 5 to date	Central "C"	3	2	0	0	16	2	0	16
		Jo-River	1	1	0	0	6	2	0	6
Grand Cape Mt	Feb 24 to date	Garwula	2	2	0	0	6	0	0	6
Gbarpolu	March 17, 2023 to date	Belle	2	1	0	0	7	0	7	0
Total		4	8	6	0	0	35	4	7	28

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

- ☞ Ten (10) deaths were reported from Nimba (4), Montserrado (3), Lofa (1), Margibi (1) and Maryland (1) Counties
- ☞ Reported causes: PPH (5), Sepsis (2), Antepartum hemorrhage (1), Uterine Perforation (1) and Cardiac arrest (1)
- ☞ All deaths occurred at the health facility
- ☞ Cumulatively, ninety (90) deaths reported
 - Proportion of death reviewed (26/90) 29%
 - Proportion of community death (13/90) 14%

Neonatal Mortality

- ☞ Sixteen (16) deaths were reported: Montserrado (9), Margibi (3), Bomi (2), Grand Kru (1), and Rivercess (1) Counties
- ☞ Reported causes: Asphyxia (9), Neonatal sepsis (5) and Prematurity (2)
- ☞ Reporting sites:
 - All deaths occurred at the health facility
- ☞ Cumulatively, two hundred five (205) deaths reported

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

- ☞ Twenty (25) cases were reported from Sinoe (11), Grand Gedeh (6), Grand Kru (3) Lofa (3), Bomi (1), and Grand Bassa (1) Counties
- ☞ All reported cases were non-serious
- ☞ Related vaccine:
 - COVID-19/J&J (13/25) 52%
 - Penta (7/25) 28%
 - Measles (1/25) 4%
 - Others (4/25) 16%
- ☞ Cumulatively, two hundred six (206) events were reported and COVID-19 accounted for (111/206) 54%

Border Surveillance Update

- ☞ A total of 5,698 travelers were recorded for the week with incoming travelers accounting for 48% (2,731/5,698)

Table 9: Border activity at the PoE for Incoming and Outgoing Travelers, Liberia, Epi week 15, 2023

Type of Ports	Point of Entry	Weekly total	Arrival	Departure	Total travelers with YB	Yellow Book Damage	Card Replaced	Travelers Vaccinated against YF & Issued book	Alerts detected/ Verified	COVID-19 Reactive	Evidence of COVID-19 vaccination card/certificate
Airport	James S. Paynes	90	46	44	2	0	0	0	0	0	2
	Robert Int'l Airport	4052	1853	2199	3983	16	0	8	0	0	3989
Seaport	Freeport of Monrovia	238	119	119	238	0	0	0	0	0	238
	Buchanan Port	156	78	78	156	0	0	0	0	0	156
Land Crossing	Bo Water Side	690	371	319	685	0	5	0	0	0	688

	Ganta	324	162	162	76	0	0	0	0	0	63
	Yekepa	74	48	26	53	0	0	0	0	0	53
	Loguatu o	74	54	20	65	0	0	0	0	0	52
Total		5,698	2,731	2,967	5,258	16	5	8	0	0	5,241

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

Public Health Measures

National level

- ☞ Community engagement on Lassa fever ongoing in Grand Bassa County
- ☞ IDSR data harmonization ongoing in Bong and Montserrado Counties

County-level

☞ Coordination

- 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 and Lassa fever 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			
0																						
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	1	0	0	0	0	0	0	0	0	0	0	0	1	17	0		
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Measles	A	1	5	2	2	4	11	21	4	7	31	66	16	0	4	6	180	2,743	22		
		D	0	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	20	0		
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0		
	Yellow fever	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0		
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Viral Hemorrhagic Fe	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	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	2	0	2	0	0	0	0	0	0	0	2	0	0	0	6	93	21		
		D	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	15	7		
Influenza-Like	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	0	
	Influenza Like Illnesses	A	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	39	0		
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Diarrheal Disease	Acute Bloody Diarrhoea (Shigellosis)	A	1	0	0	0	3	4	5	0	0	2	2	0	1	3	21	194	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	1	7	0	6	6	2	2	0	0	25	258	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	Maternal Mortality	D	0	0	0	0	0	0	1	1	1	3	4	0	0	0	10	90				
	Neonatal Mortality	D	2	0	0	0	0	1	0	3	0	9	0	1	0	0	16	205				
	AEFI	A	1	0	0	1	0	6	3	3	0	0	0	0	0	11	25	206	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	0
Other Reportable Diseases	Mpox	A	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	44	5			
		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)	A	4	5	0	3	0	2	3	5	1	6	44	14	6	0	4	97	961	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	0	0	0	0	0	11	0	0	
		D	0	0	0	0	0	0	0	0	0	0	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	0		
	D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Neglected Tr	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	0
	Yaws	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL		10	13	2	10	0	22	0	25	0	44	0	40	0	6	24	384	4931	34			

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

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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.