



Liberia IDSR Epidemiology Bulletin

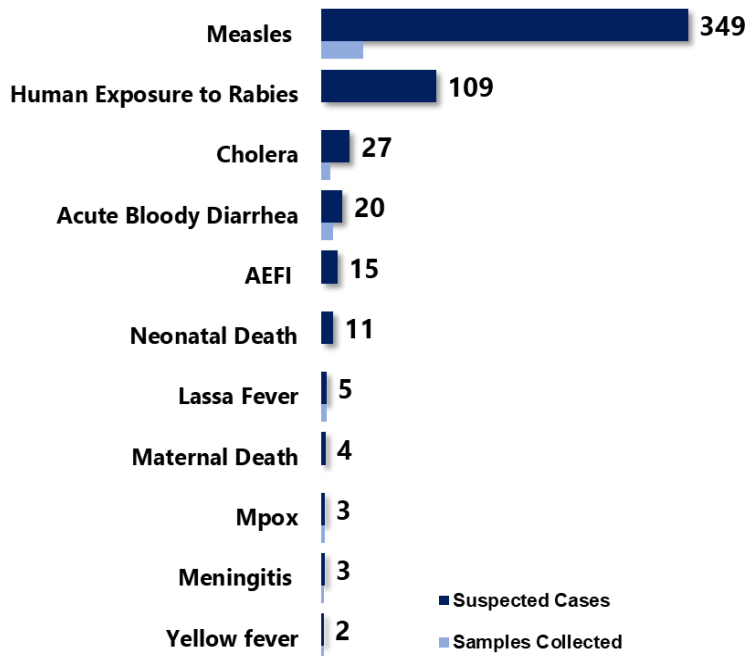
Epi-week 14 (April 3-9, 2023)

Country Population: 5,104,413 | Volume 18 Issue 14 | April 3-9, 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 548 events of public health importance including 15 deaths reported
- ◆ Completeness and timeliness of health facility reports were 98 % and 97%
- ◆ Ongoing Lassa fever outbreak in 4 Counties
- ◆ Ongoing Measles outbreak in 14 Counties
- ◆ Ongoing Mpox outbreak in 3 Counties

Adverse Events Following Immunization/Adverse Drug Reaction

Reporting Coverage

Table 1: Health Facility Weekly IDSR Reporting Coverage, Liberia, Epi-week 14, 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	396	391	95	94
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	956	951	99.6	99.6

956(99.6%)
Health facilities reported IDSR data

98(100%)
Health districts reported IDSR data

951 (99.6%)
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 except Gbarpolu County

Legend: ≥80 <80



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Vaccine-Preventable Diseases

Measles

- Three hundred forty-nine (349) suspected cases were reported from 15 Counties (see distribution in table 2)
- Forty (40) specimens collected and pending testing
- Two hundred thirty-six (236) were vaccinated (see distribution in table 3)

Table 2: Distribution of Measles cases per county and epi-classification, Liberia, Epi week 14, 2023

COUNTY	CASES WEEK 14	Lab confirmed	CLASSIFICATION OF CONFIRMED CASES			DEATHS	CFR (%)	CUMULATIVE # SUSPECTED CASES	CUMULATIVE # CONFIRMED CASES
			Lab confirmed	Epi Linked	Clinically Compatible				
Bomi	4	0	2	13	37	0	0	48	48
Bong	15	0	2	6	132	1	0.8	125	125
Gbarpolu	0	0	0	0	26	0	0	27	26
Grand Bassa	23	0	0	0	119	0	0	96	96
Grand Cape Mount	0	0	1	2	41	0	0	50	44
Grand Gedeh	24	0	1	23	102	0	0	121	102
Grand Kru	42	0	2	68	466	2	0.4	494	494
Lofa	6	0	0	0	44	0	0	42	38
Margibi	20	0	1	7	135	0	0	125	123
Maryland	23	0	0	0	363	0	0	342	340
Montserrado	156	0	4	44	540	0	0	437	432
Nimba	20	0	1	33	152	3	1.8	168	166
River Gee	7	0	0	0	52	0	0	56	45
Rivercess	2	0	0	0	26	0	0	27	24
Sinoe	7	0	2	11	42	0	0	53	48
Grand Total	349	0	16	207	2277	6	3	2211	2151

Table 3: Vaccination Status of Measles Cases, Liberia, Epi week 14, 2023

County	Vaccinated	Number of Doses Received		
		One Dose	Two Doses	Doses Not indicated
Bomi	4	3	1	0
Bong	9	7	0	2
Gbarpolu	0	0	0	0
Grand Bassa	12	3	1	8
Grand Cape Mount	0	0	0	0
Grand Gedeh	13	9	2	2
Grand Kru	11	6	5	0
Lofa	6	0	0	6
Margibi	12	12	0	0
Maryland	6	2	3	1
Montserrado	145	118	11	16
Nimba	10	10	0	0
River Gee	6	2	4	0
Rivercess	0	0	0	0
Sinoe	2	1	1	0
Grand Total	236	173	28	35



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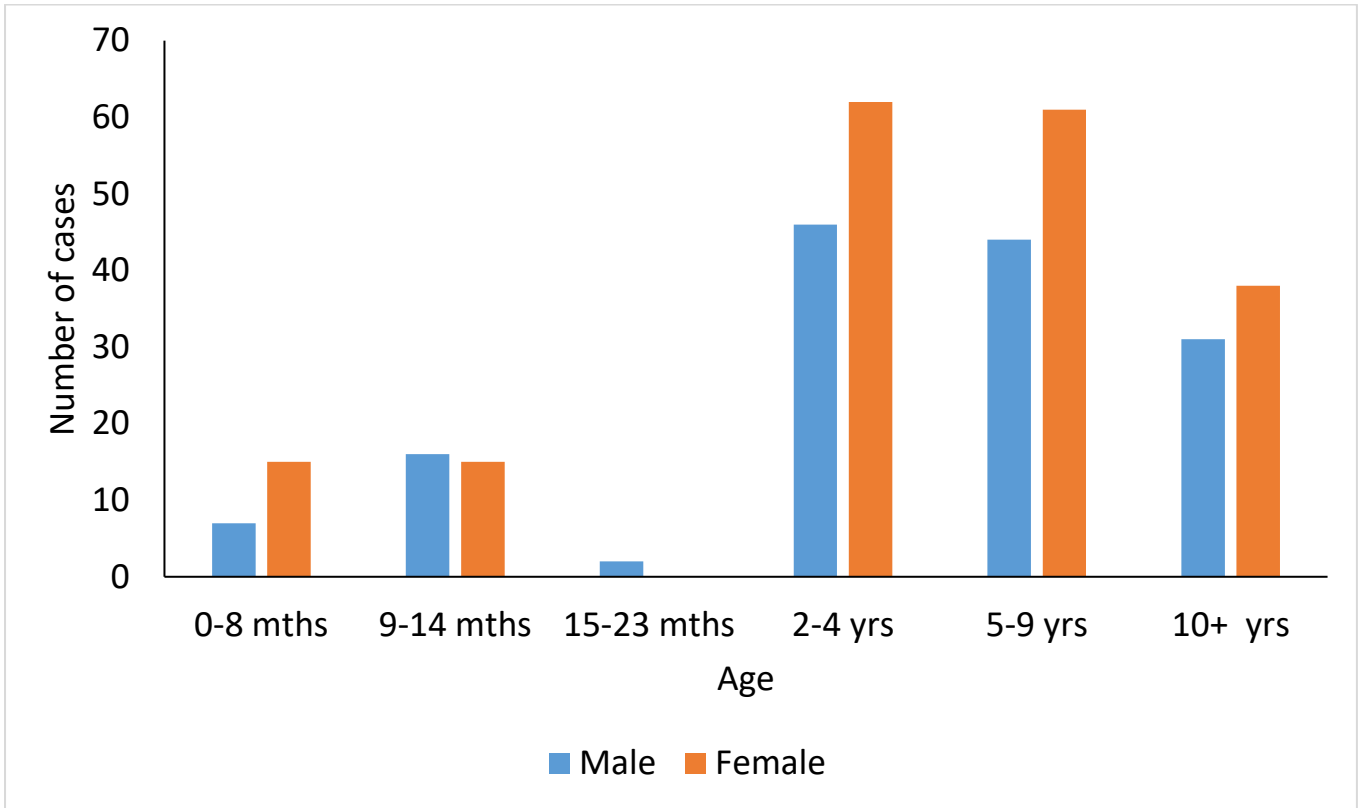


Figure 2: Distribution of Measles Cases by Sex, Liberia Epi Week 14, 2023

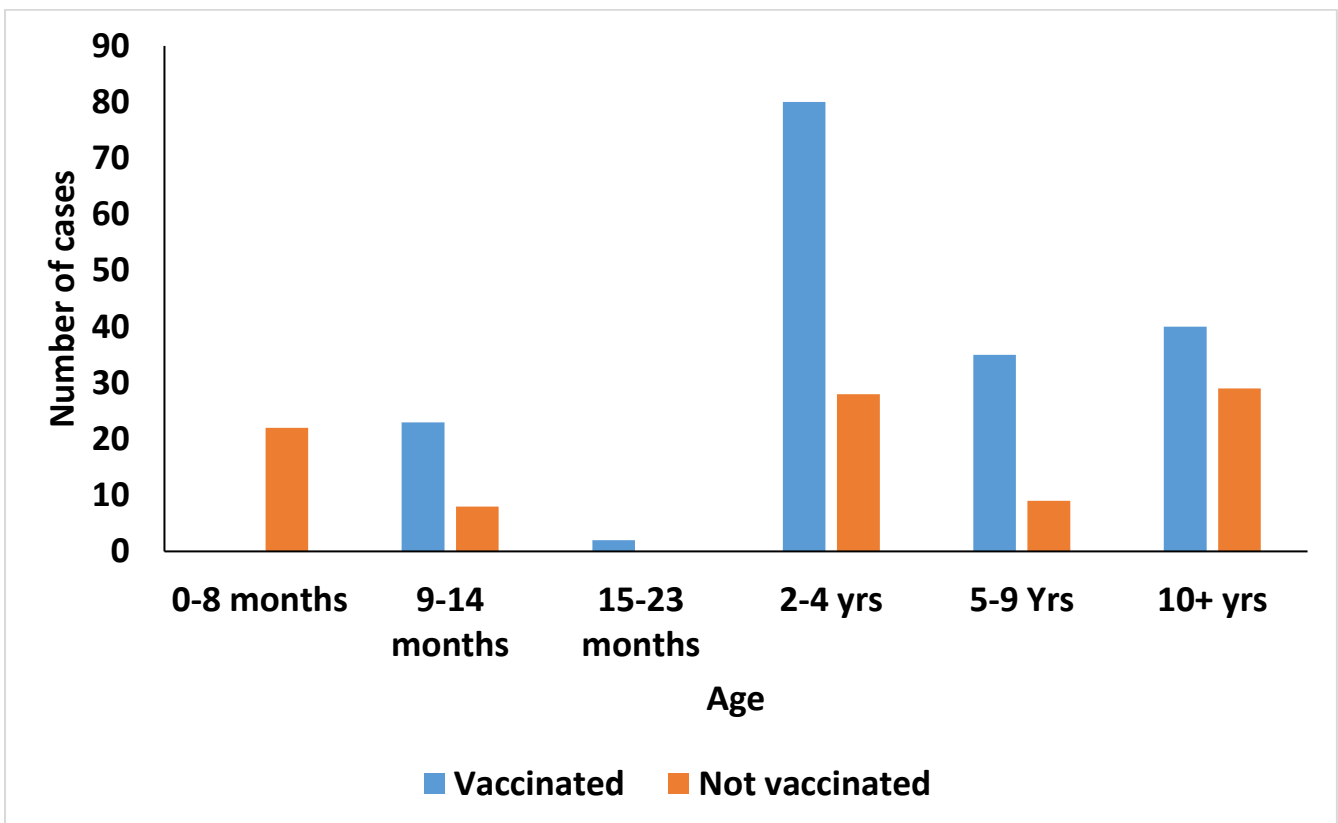


Figure 3: Vaccination Status of Suspected Measles Cases by Age group, Liberia, Epi-Week 14, 2023



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Outbreak Section

Table 4: Summary Distribution of Measles Cases and Deaths, December 13, 2021- April 9, 2023

COUNTY	CUMULATIVE SUSPECTED CASES	CUMULATIVE CONFIRMED CASES	CLASSIFICATION OF CONFIRMED CASES			CLASSIFICATION OF CONFIRMED DEATHS			CUMULATIVE DEATHS	CFR (%)	# CONFIRMED CASES WEEK 13	# CONFIRMED CASES WEEK 14	% CHANGE	Outbreak Status
			Lab confirmed	Epi Linked	Clinically Compatible	Lab confirmed	Epi Linked	Clinically Compatible						
Montserrado	4,952	4,890	141	4,443	306	3	61	3	67	1.6	45	156	247	Ongoing
Nimba	960	932	37	837	58	0	0	4	4	0.1	11	20	-80	Ongoing
Margibi	745	724	33	663	28	0	1	0	1	0	14	20	43	Ongoing
Grand Bassa	879	842	40	677	125	1	6	0	7	1	0	23	-	Ongoing
Lofa	284	224	32	141	51	0	0	0	0	0	1	3	200	Ongoing
Bong	512	492	19	413	60	0	1	2	3	0.6	9	15	67	Ongoing
Maryland	732	724	22	661	41	0	0	0	0	0	36	22	-39	Ongoing
Grand Gedeh	378	265	30	113	122	0	0	0	0	0	15	24	60	Ongoing
Sinoe	230	179	33	58	88	0	0	0	0	0	1	2	100	Ongoing
Bomi	163	138	33	71	34	1	2	2	5	7.4	8	4	-100	Ongoing
Grd Cape Mt	182	159	16	116	27	0	2	1	3	2.7	3	0	-100	Ongoing
Grand Kru	780	754	16	635	103	0	2	0	2	0	55	42	-24	Ongoing
Gbarpolu	84	70	5	60	5	0	0	0	0	0	0	0	-	Ongoing
Rivercess	102	83	22	54	7	0	1	0	1	1.3	0	0	-	Ongoing
River Gee	36	26	3	0	23	0	0	0	0	0	4	7	75	Ongoing
Total	11,019	10,502	482	8,942	1078	5	76	12	93	1.5	202	338		

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 (Grand Gedeh, Grand Kru, and Maryland).
- Active case search
- Line listing of cases

III. Case Management

- Patients were managed at health facilities and sent for home-based isolation

IV. Laboratory

- Specimens were collected from 14 districts in 6 counties for testing (Bomi-Dewoin, Grand Gedeh-B'hai, Putu, Tchien, Cavalla and Konobo, Grand Kru- Barclayville and Trehn, Lofa-Kolahun and Foya, River Gee-Potupo, Sinoe- Kpanyan Dugbeh River and Tarjuwon).

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



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Acute Flaccid Paralysis (AFP)

- Zero case was reported
- Cumulatively, sixteen (16) cases were reported

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

Viral Hemorrhagic Diseases

Lassa fever

- Five (5) suspected cases were reported from Montserrado (3), River Gee (1) and Grand Bassa (1) Counties
- Five (5) specimens were collected and tested negative
- Cumulatively ninety-one (91) suspected cases reported
 - Proportion of suspected cases with a sample collected (80/91) 88%
 - Proportion of suspected cases with sample tested (80/80) 100%

Current Outbreak

Lassa fever disease

- No new confirmed case was reported
- Ten (10) contacts under 21 days' follow-up
- Cumulatively, sixty-nine (69) laboratory-confirmed cases including 18 deaths reported (CFR=26%)



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Table 5: Summary of Lassa fever Outbreak, Liberia, Jan 6, 2022 – April 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	9	24	366	120	366	0
Nimba	Feb. 6, 2023 to date	Sanniquellie-Mah & Tappita	6	3	0	1	33	79	52	79	0
Grand Bassa	Sept. 9, 2022 to date	District #3 A&B	50	25	0	6	25	139	28	129	10
Mont	Feb 13, 2023 to date	Central Monrovia	9	3	0	2	67	51	15	51	0
Total		4	173	69	8	18	26	635	215	625	10

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

- ☞ Two (2) cases were reported from River Gee County
- ☞ Two (2) specimens were collected and pending testing
- ☞ 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



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Diarrheal Diseases

Acute Bloody Diarrhea (Suspected Shigellosis)

- ☞ Twenty (20) cases were reported from Lofa (8), Sinoe (3), River Gee (2), Rivercess (2), Montserrado (2), Grand Kru (1), Grand Cape Mount (1), and Bong (1) Counties
- ☞ Eleven (11) specimens were collected and pending testing
- ☞ Cumulatively, one hundred seventy-three (173) cases were reported
 - Fifty-six (56) specimens were collected and received by NPHRL:
 - 30 negative
 - 7 specimens rejected
 - 19 pending testing
 - Six (6) specimens were not transported in epi weeks 8 & 12

Severe Acute Watery Diarrhea (Suspected Cholera)

- ☞ Twenty-seven (27) cases were reported from Bong (8), Lofa (7), Grand Kru (4), Nimba (2), Bomi (1), Margibi (1), Rivercess (1), River Gee (1), Maryland (1), and Montserrado (1) Counties
- ☞ Eight (8) specimens were collected and pending
- ☞ Cumulatively, two hundred thirty-three (233) cases reported
 - Thirty-eight specimens collected and received by NPHRL
 - 31 negative
 - 7 rejected
 - Nine (9) specimens were not transported in epi weeks 8 & 12

Other Reportable Diseases

Animal bite (Human Exposure to Rabies)

- ☞ One hundred nine (109) animal bite cases were reported:

Table 7: Distribution of Animal bite cases and PEP administration per county, Liberia, Epi week 14, 2023

Counties	Cases	Person receiving PEP	PEP doses administered	Cumulative cases (Wk 1-14)	Cumulative PEP administered (Wk 1-14)
Bomi	1	0	1	18	7
Bong	14	7	7	75	31
Gbarpolu	0	0	0	10	0
Grand Bassa	8	0	0	73	3
Grand Cape Mount	2	2	2	29	14
Grand Gedeh	2	0	0	35	2
Grand Kru	10	0	0	83	15
Lofa	8	6	4	77	22
Margibi	6	3	3	60	32
Maryland	6	2	1	37	14
Montserrado	34	6	6	187	74
Nimba	15	7	7	99	31
Rivercess	1	0	0	15	0
River Gee	0	0	0	32	5
Sinoe	2	1	1	33	2
Total	109	34 (31%)	32	863	252

Public Health Actions

- ☞ Ongoing monitoring and follow-up of cases



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Meningitis

- ☞ Three (3) suspected cases reported from Nimba (2) and River Gee (1) Counties
- ☞ Two (2) specimens were collected and tested negative
- ☞ Cumulatively, fifteen (15) suspected cases reported
 - Proportion of suspected cases with samples collected (13/15) 87%
 - Proportion of sample tested (9/13) 69%

Mpox

- ☞ Three (3) suspected cases were reported from Grand Bassa (2), and River Gee (1) Counties
- ☞ Three (3) specimens were collected: 2 tested negative and 1 pending
- ☞ Cumulatively, forty-three (43) suspected cases reported
- ☞ Five confirmed: Rivercess (2), Grand Cape Mount (2), and Gbarpolu (1)

Outbreak

Mpox:

- ☞ No new confirmed case was reported
- ☞ Total confirmed cases reported: 6
- ☞ Total contacts under follow-up: 7
- ☞ Counties currently in outbreak: 3

Table 8: Summary of Mpox Outbreak, Liberia, Dec 5, 2022 – April 9, 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



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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

- ☞ Four (4) deaths were reported from Nimba (2), Grand Gedeh (1), and Grand Cape Mount (1) Counties
- ☞ Reported causes: PPH (2), Severe anemia (1), and one pending review
- ☞ Reported sites:
 - Health facility: (3/4) 75%
 - Community: (1/4) 25%
- ☞ Cumulatively, eighty (80) deaths reported
 - Proportion of death reviewed (26/80) 33%
 - Proportion of community death (13/80) 16%

Neonatal Mortality

- ☞ Eleven (11) deaths were reported: Montserrado (6), Nimba (2), Maryland (1), River Gee (1), and Bong (1) Counties
- ☞ Reported causes: Neonatal sepsis (6) Birth Asphyxia (3), and Prematurity (2)
- ☞ Reporting sites:
 - Health facility: 11/11 (100%)
- ☞ Cumulatively, one hundred eighty-nine (189) deaths reported

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

- ☞ Fifteen (15) cases were reported from Lofa (4), Sinoe (4), Grand Bassa (2), Grand Gedeh (2), Maryland (1), Grand Kru (1), and Nimba (1) Counties
- ☞ All reported cases were non-serious
- ☞ Related vaccine:
 - COVID-19/J&J (5/15) 33%
 - Penta (5/15) 33%
 - Measles (2/15) 13%
 - Others (3/15) 20%
- ☞ Cumulatively, one hundred eighty-one (181) events were reported and COVID-19 accounted for (96/181) 53%



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Border Surveillance Update

A total of 5,862 travelers were recorded for the week with incoming travelers accounting for 42% (2,482/5,862)

Table 9: Border activity at the PoE for Incoming and Outgoing Travelers, Liberia, Epi week 14, 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	98	37	61	8	0	0	0	0	0	10
	Robert Int'l Airport	4388	1849	2539	4380	8	0	0	0	0	4388
Seaport	Freeport of Monrovia	252	126	126	252	0	0	0	0	0	252
	Buchanan Port	148	74	74	148	0	0	0	0	0	148
Land Crossing	Bo Water Side	651	217	434	650	0	1	0	0	0	651
	Ganta	160	74	86	67	0	0	0	0	0	85
	Yekepa	58	38	21	38	0	0	0	0	0	40
	Loguatu	107	67	40	92	0	0	0	0	0	79
Totol		5,862	2,482	3,381	5,635	8	1	0	0	0	5,653

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 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	Montserrat	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	11	6	6	10	98				
No. of Health District Reported		4	9	5	8	5	6	5	6	4	6	7	11	6	6	10	98				
Vaccine Preventable Diseases	Acute Flaccid Paralysis (Suspected Polio)	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	0	
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Measles	A	4	15	0	23	0	24	42	6	20	23	156	20	2	7	7	349	2,211	16	
		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	0	20	0
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0
	Yellow fever	A	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	30	0	0
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Viral Hemorrhagic Diseases	Dengue fever	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Ebola Virus Disease	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Lassa fever	A	0	0	0	1	0	0	0	0	0	0	3	0	0	1	0	5	73	18	
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	8	
Influenza-Like Diseases	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	0	0	
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Diarrhoeal Diseases	Acute Bloody Diarrhoea (Shigellosis)	A	0	1	0	0	1	0	1	8	0	0	2	0	2	2	3	20	153	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	1	8	0	0	0	0	4	7	1	1	1	2	1	1	0	27	206	0	
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Events of Public Health Interest	Maternal Mortality	D	0	0	0	0	1	1	0	0	0	0	0	2	0	0	4	76			
	Neonatal Mortality	D	0	1	0	0	0	0	0	0	1	6	2	0	1		11	177			
	AEFI	A	0	0	0	2	0	2	1	4	0	1	0	1	0	0	4	15	166	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		
D	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	2	0	0	0	0	0	0	0	0	0	1	3	40	5		
		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	0	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	1	14	0	8	2	2	10	8	6	6	34	15	1	0	2	109	754	0	
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Meningitis	A	0	0	0	0	0	0	0	0	0	0	0	2	0	1	0	3	11	0		
	D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	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		
Neglected Tropical Diseases	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			
TOTAL		6	39	0	36	0	29	0	33	0	32	0	44	0	15	17	548	3950	31		

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.