



Liberia IDSR Epidemiology Bulletin

Epi-week 7 (February 12-18, 2024)

Country Population: 5,104,413

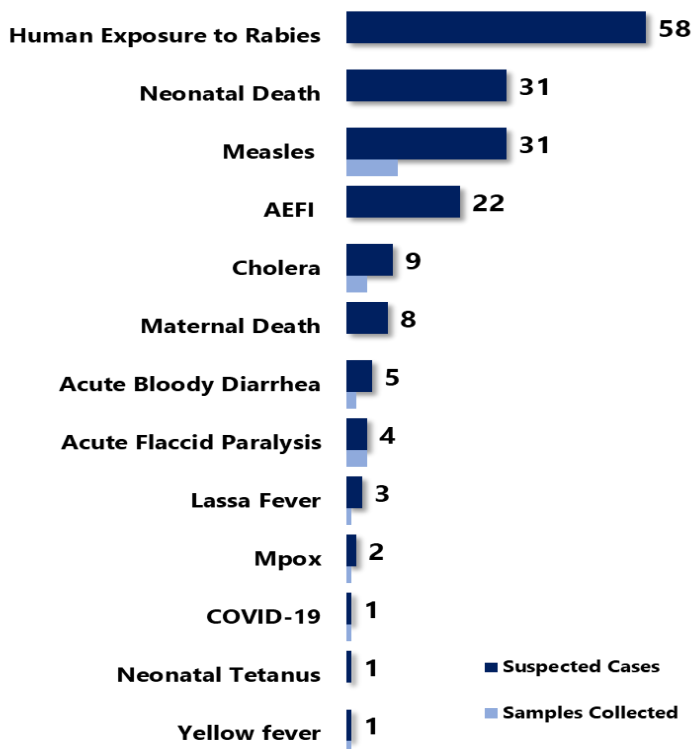
Volume 20 Issue 7

February 12-18, 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 176 events of public health importance including 41 deaths reported
- ◆ Completeness and timeliness of health facility reports were both 96% respectively
- ◆ Ongoing Lassa fever outbreak in 1 County
- ◆ Ongoing Measles outbreak in 4 Counties
- ◆ Ongoing Mpox outbreak in 2 counties

Adverse Events Following Immunization/Adverse Drug Reaction (AEFI)

Reporting Coverage

Table 1: Health Facility Weekly IDSR Reporting Coverage, Liberia, Epi-week 7, 2024

County	Expected Reports From HF*	Reports Received	Received on Time	Completeness (%)	Timeliness (%)
Bomi	28	28	28	100	100
Bong	67	64	64	96	96
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	63	63	95	95
Maryland	28	25	25	89	89
Montserrado	418	392	392	94	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	943	943	96	96

943 (96%) Health facilities reported IDSR data

98 (99%) Health districts reported IDSR data

943 (96%) 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

Legend:

≥80

<80

Vaccine-Preventable Diseases

Measles

- ☞ Thirty-one (31) suspected cases were reported (see table below)
 - Ten (10) specimens were collected, three (3) positive and 7 pending testing
- ☞ Twenty (20) persons were vaccinated
- ☞ Cumulatively, two hundred six (206) cases reported
 - Proportion of suspected cases with sample collected (109/206) 53%
 - Proportion of suspected cases with sample tested (81/109) 74% (negative 50, confirmed 31)
 - Proportion of negative Measles cases tested for Rubella (40/50) 80% (negative 35, confirmed 5)

Table 2: Distribution and Vaccination Status of Measles Cases, Liberia, Epi-week 7, 2024

County	# of cases	Vaccinated	Number of Doses Received		
			One Dose	Two Doses	Doses Not Indicated
Bong	2	2	0	0	2
Grand Bassa	3	3	1	1	1
Grand Gedeh	10	4	2	0	2
Grand Kru	4	3	1	2	0
Maryland	3	1	1	0	0
Nimba	5	3	3	0	0
River Gee	2	2	2	0	0
Sinoe	2	2	2	0	0
Total	31	20	12	3	5

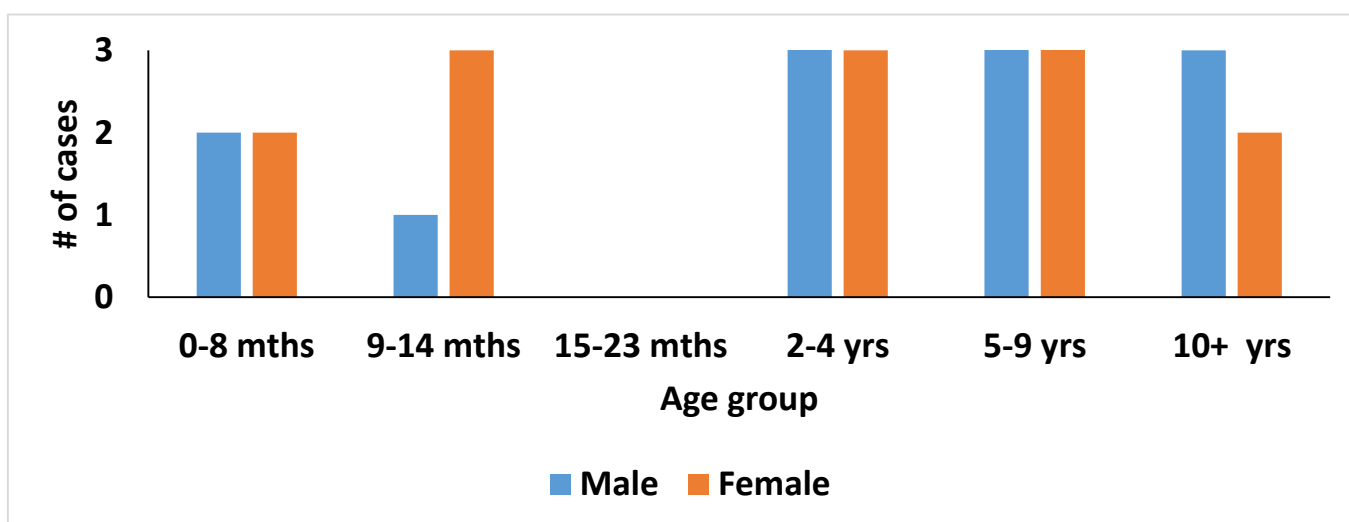


Figure 2: Distribution of Measles Cases by Age Group and Sex, Liberia Epi-Week 7, 2024

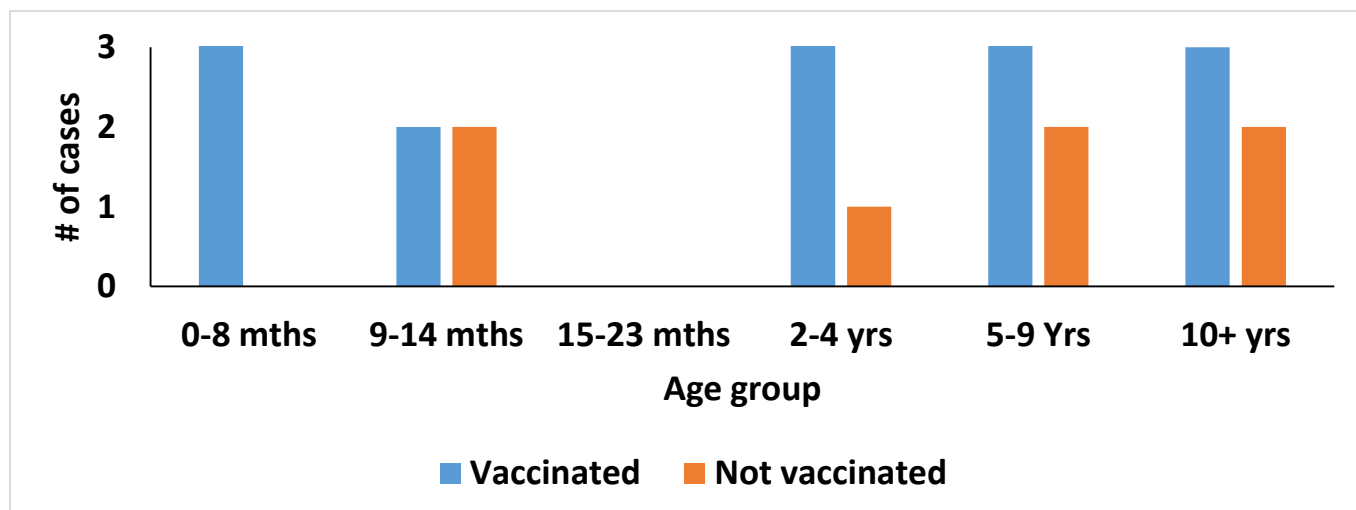


Figure 3: Vaccination Status of Suspected Measles Cases by Age Group, Liberia, Epi-Week 7, 2024

Outbreak

Table 3: Status of Confirmed (lab, clinically confirmed and epi-linked) Measles Cases by County, Liberia, December 13, 2021 February 18, 2024

COUNTY	CUMULATIVE SUSPECTED CASES	CUMULATIVE CONFIRMED CASES	CLASSIFICATION OF CONFIRMED CASES			CLASSIFICATION OF CONFIRMED DEATHS			CUMULATIVE DEATHS	CFR (%)	# CONFIRMED CASES WEEK 6	# CONFIRMED CASES WEEK 7	% CHANGE	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	1,143	1116	50	195	871	0	1	3	4	0.4	4	2	-	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	353	284	35	66	183	0	0	0	0	0	0	0	-	Ended
Bong	603	578	25	21	532	0	1	2	3	0.5	0	0	-	Ended
Maryland	1208	1188	26	308	854	0	0	0	0	0	13	4	-13	Ongoing
Grand Gedeh	676	527	57	62	408	0	0	0	0	0	5	9	-	Ongoing
Sinoe	284	231	48	84	99	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	994	965	42	106	817	0	0	2	2	0.2	0	0	-	Ended
Gbarpolu	67	46	5	2	39	0	0	0	0	0	0	0	-	Ended
Rivercess	112	84	26	54	4	0	1	0	1	1.1	0	0	-	Ended
River Gee	108	84	21	5	58	0	0	0	0	0	3	2	-	Ongoing
Total	13,191	12,537	621	2,954	8,962	5	68	22	95	7.8	25	17		

Table 4: Status of Confirmed Measles Cases by County, Liberia, December 13, 2021 February 18, 2024

County	Total Cases	Active	Recovery	Deaths	# of Districts
Montserrado	5,373	0	5,304	69	0/7
Nimba	1,116	2	1,110	4	0/6
Grand Bassa	924	0	917	7	0/8
Margibi	803	0	802	1	0/4
Bong	578	0	575	3	0/9
Maryland	1188	4	1184	0	3/6
Lofa	284	0	284	0	0/6
Grand Kru	965	0	963	2	0/5
Grand Cape Mount	187	0	184	3	0/5
Bomi	147	0	142	5	0/4
Rivercess	84	0	83	1	0/6
Gbarpolu	46	0	46	0	0/5
Grand Gedeh	527	9	518	0	2/6
River Gee	84	2	81	0	1/6
Sinoe	231	0	231	0	0/10
Total	12,537	17	12,425	95	6/98

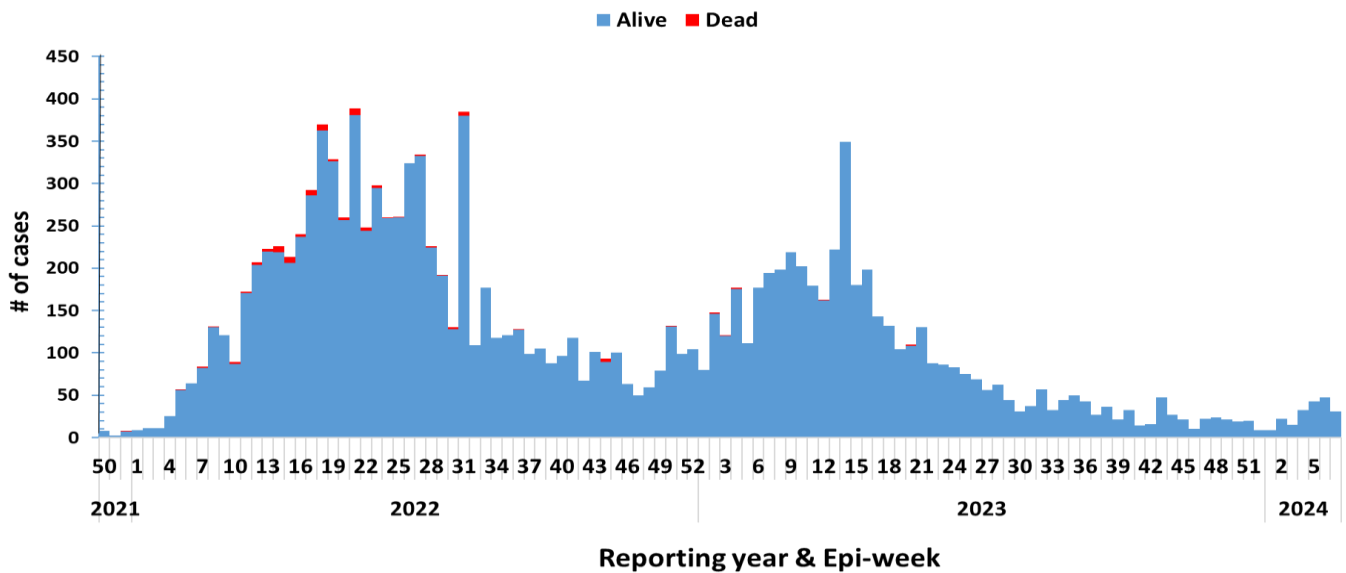


Figure 4: Epi Curve of Measles Cases Liberia, Epi week 50, 2021 – Epi week 7, 2024

Public Health Measures

I. Coordination

- IMS meetings are being held for coordination and mobilization of resources in Maryland County.

II. Epidemiological Surveillance

- Active case search and contact tracing ongoing in affected Districts (Pleebo, Konobo, Tchien, Karluway-II, Potupo, Putu, and Harper) in Maryland, River Gee, Nimba, and Grand Gedeh Counties.

III. Case management

- Case management ongoing in Maryland, Nimba, River Gee and Grand Gedeh Counties.

IV. Immunization

- The Expanded Program on Immunization (EPI) conducted a 7-day periodic intensification Routine Immunization (PIRI) from January 30 to February 5, 2024 in 14 counties and 94 health districts excluding Margibi County. The activity targeted children 9-23 months and used one-month (January) target as the denominator: 17,363, vaccinated: dose one: 8893 (51%) and dose two: 4528 (26%).
- Routine immunization intensified in affected districts (Pleebo, Konobo, Karluway-II, Tchien, Putu and Harper) in Maryland, Grand Gedeh, River Gee and Nimba Counties.

V. Laboratory

- The National Public Health Reference Laboratory (NPHRL) confirmed two measles cases from Saclepea-Mah and Sanniquellie-Mah districts for the week.
- Six hundred twenty-one (621) cases have been confirmed by the NPHRL from December 13, 2021 – February 22, 2024.

VI. Risk Communication and Community Engagement

- Community engagement and health education ongoing in affected and surrounding communities.

VII. Challenges

- Limited support for response in the affected counties
- Limited isolation space for cases in Grand Gedeh County
- Lack of needed resources to adequately respond (logistics)

Acute Flaccid Paralysis (AFP)

- Four (4) cases were reported from Nimba (2), Lofa (1), and Grand Cape Mount (1) Counties
 - Four (4) specimens were collected: Three shipped and one pending arrival
- Cumulatively, seven (7) cases reported

Neonatal Tetanus

- One death was reported from Montserrado County
- Cumulatively, four (4) cases have been reported including one death

Influenza-Like Illnesses

Coronavirus Disease (COVID-19)

- One (1) suspected case was reported from Grand Bassa County
 - One specimen was collected and tested positive
- Cumulatively, one (1) case has been reported

Influenza

- Zero cases have been reported
- Cumulatively, ten (10) suspected cases reported
 - Ten specimens collected: 5 tested negative, 5 pending verification

Viral Hemorrhagic Fever

Lassa fever

- Three (3) suspected cases were reported from Bong (2), and Grand Kru (1) Counties
 - Specimens were collected and tested negative
- Cumulatively, thirty-one (31) suspected cases have been reported
 - Proportion of suspected cases with sample collected (31/31) 100%
 - Proportion of suspected cases with sample tested (30/31) 97%
 - Negative 29, confirmed 1, suspected 1

Outbreak

- No new confirmed case reported
- All contacts completed 21 days follow up
- Cumulative Case Fatality Rate (CFR): 29% (41/139)
- One county currently in countdown (Nimba)

Table 5: Summary of Lassa fever Outbreak, Liberia, January 6, 2022- February 23, 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	Over
	Central Monrovia	27-Nov-23	1	2	0	1	0	50%	49	0	0	0	49	Completed	Over
	Central Monrovia	3-Mar-23	38	2	0	1	0	50%	28	27	0	0	28	Completed	Over
Bong	Suakoko	21-Apr-23	190	54	18	13	2	24%	480	194	6	0	417	Completed	Over
	Jorquelleh	15-Oct-23	14	6	3	1	1	17%	121	86	3	0	169	Completed	Over
Grand Bassa	District 3A&B	21-Aug-23	87	44	0	10	0	23%	177	40	40	0	159	Completed	Over
	Buchanan	11-Aug-23	2	1	0	1	0	100%	4	2	0	0	4	Completed	Over
Nimba	Saclepea-Mah	21-Nov-23	4	2	0	1	0	50%	5	0	0	0	5	Completed	Over
	Sanniquelle-Mah	6-Feb-23	41	15	0	6	0	40%	43	35	8	0	43	Completed	Over
	Tappita	20-Nov-23	11	5	0	3	0	60%	88	39	4	0	77	19	Countdown
	Bain-Garr	1-Jun-23	24	6	0	3	0	50%	61	25	0	0	31	Completed	Over
River Gee	Putupo	25-Nov-22	1	1	0	1	0	100%	14	0	0	0	14	Completed	Over
Total			430	139	21	41	3	29%	1085	469	61	0	1025		

Diarrheal Diseases

Acute Bloody Diarrhea (Suspected Shigellosis)

- Five (5) suspected cases were reported from Sinoe (2), Lofa (1), River Gee (1), and Rivercess (1) Counties
 - Three (3) specimens were collected, 1 rejected and 2 pending testing
- Cumulatively, forty-six (46) cases have been reported
 - 20 specimens collected, 13 reached the Lab
 - 8 tested negative, 3 rejected

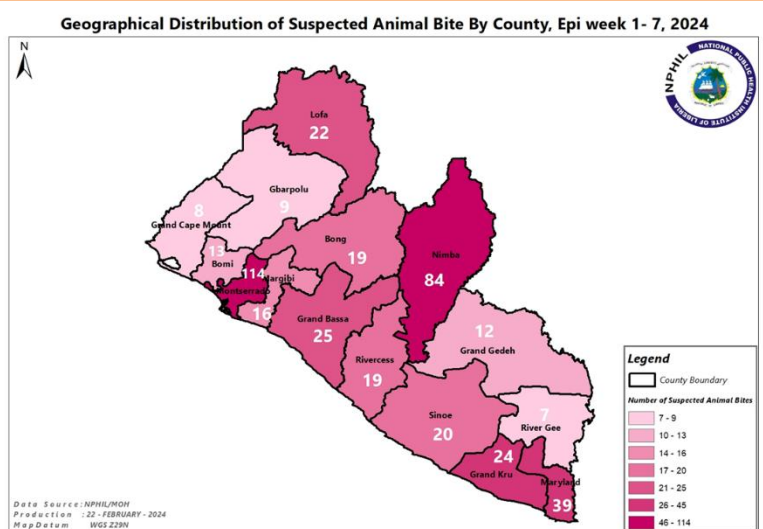
Severe Acute Watery Diarrhea (Suspected Cholera)

- Nine (9) cases were reported from Maryland (3), Nimba (2), Bong (2), Grand Kru (1), and Lofa (1) Counties
 - Six (6) specimens were collected, 2 tested negative, 2 not sent and 2 pending testing
- Cumulatively, fifty (50) cases have been reported
 - 21 specimens collected, 9 reached the Lab
 - 7 tested negative, 2 rejected

Other Reportable Diseases

Animal bite (Human Exposure to Rabies)

- Fifty-eight (58) animal bite cases were reported from, Nimba (17), Montserrado (11), Grand Kru (8), Bong (4), Grand Bassa (4), Lofa (3), Maryland (3), Grand Gedeh (2), Sinoe (2), Margibi (1), Grand Cape Mount (1), River Gee (1), and Rivercess (1) Counties
- All bites were attributed to dog
- *Proportion of cases investigated: 37/58 (64%)
 - Proportion of dogs vaccinated: 0/37 (0%)
- Cumulatively, 435 cases have been reported



Public Health Actions

- All cases were clinically managed and sent home
- PEP Administered to 4 persons: Lofa, Maryland, Montserrado and Nimba counties
- Thirty-eight (38) dogs restrained and underwent 10-14 days' follow-up
 - All cases were investigated only by the human health surveillance team

Tuberculosis

- Zero case was reported
- Cumulatively, twenty-five (25) drug susceptible TB cases have been reported
 - Twenty (20) are notified
 - Five (5) not notified
 - Zero MDRTB

Meningitis

- Zero suspected cases reported
- Cumulatively, five (5) suspected cases have been reported
 - Proportion of specimen collected 5/5 100%
 - Proportion of specimen tested 5/5 100% (4 negative, 1 positive)

Mpox

- Two (2) suspected cases were reported from Grand Kru (1), and Sinoe (1) Counties

- One (1) specimen was collected and tested positive from Sinoe County
- ☞ Cumulatively, ten (10) suspected cases have been reported, 2 tested positive, 4 negative, 1 rejected, 1 sample not tested

Unexplained cluster of deaths

- ☞ Zero cases reported

Unexplained cluster of Health Events

- ☞ Zero cases reported

Events of Public Health Importance

Maternal Mortality

- ☞ Eight (8) deaths were reported from Montserrado (6), Sinoe (1), and Grand Bassa (1) Counties
- ☞ Reported causes: Eclampsia (3), PPH (2), Antepartum Hemorrhage (2), and Sepsis (1)
- ☞ Reporting sites
 - Health facility (8/8) 100%
- ☞ Cumulatively, thirty-six (36) deaths reported
 - Proportion of deaths reviewed (10/36) 28%

Neonatal Mortality

- ☞ Thirty-one (31) deaths were reported from Montserrado (23), Maryland (2), Bong (1), Nimba (1), Gbarpolu (1), Rivercess (1), Bomi (1), and Grand Gedeh (1) Counties
- ☞ Reported causes: Birth asphyxia (11), Neonatal sepsis (8), and under investigation (12)
 - Reported sites:
 - Health facility (29/31) 94%
 - Community (2/31) 6%
- ☞ Cumulatively, seventy-seven (77) deaths reported
 - Proportion of deaths reviewed (8/77) 10%

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

- ☞ Twenty-two (22) suspected cases were reported from Grand Kru (6), Sinoe (6), Grand Cape Mount (5), Bomi (3), and Grand Gedeh (2) Counties
- ☞ All reported cases were classified as non-serious
- ☞ Related vaccine:
 - Penta (11/22) 50%
 - COVID-19 (5/22) 23%
 - Others (6/22) 27%
- ☞ Cumulatively one hundred fifty-six (156) events were reported

Neglected Tropical Diseases

YAWS

- ☞ Zero cases were reported

Buruli Ulcer

- ☞ Zero cases were reported

Border Surveillance Update

A total of 5059 travelers were recorded for the week with incoming travelers accounting for 49% (2491/5059)

Table 6: Border activity at the PoE for incoming and outgoing travelers, Liberia, Epi week 7

Type of Ports	Point of Entry	Weekly total	Arrival	Departure	Total travelers with YB	Yellow Book Damage	Card Replaced	Vaccinated against YF & Issued	Alerts detected/ Verified	Evidence of COVID-19 vaccination card/certificate
Airport	James S. Paynes	97	39	58	3	0	0	0	0	4
	Robert Int'l Airport	3741	1841	1900	1882	4	28	0	0	3710
Seaport	Freeport of Monrovia	308	154	154	308	0	0	0	0	308
	Buchanan Port	82	41	41	82	0	0	0	0	82
Ground Crossing	Bo Water Side	495	211	284	491	0	4	0	0	195
	Ganta	117	73	44	68	0	0	0	0	45
	Yekepa	97	70	27	14	0	0	0	0	22
	Loguatu	122	62	60	66	0	0	0	0	41
Total		5,059	2,491	2,568	2,914	4	32	0	0	4,407

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 disseminate 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	Maryland	Montserrado	Nimba	Rivercess	River Gee	Sinoe	Total Weekly	Cumulative Reported	Cumulative Lab-confirmed	
No. of Expected Health District		4	9	5	8	5	6	5	6	4	6	7	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	1	0	0	1	0	0	0	2	0	0	0	4	7	0	
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Measles	A	0	2	0	3	0	10	4	0	0	3	0	5	0	2	2	31	206	31
		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	4	0
		D	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0
	Yellow fever	A	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	10	0
		D	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	3	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	2	0	0	0	0	1	0	0	0	0	0	0	0	0	3	26	1
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0
Influenza-Like	COVID-19	A	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1
		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	10	0
		D	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	0	0	0	0	0	0	1	0	0	0	0	1	1	2	5	46	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	0	0	0	1	1	0	3	0	2	0	0	0	9	50	0
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Events of Public Health In	Maternal Mortality	D	0	0	0	1	0	0	0	0	0	6	0	0	0	1	8	38		
	Neonatal Mortality	D	1	1	1	0	0	1	0	0	2	23	1	1	0	0	31	77		
	AEFI	A	3	0	0	0	5	2	6	0	0	0	0	0	0	6	22	156	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		
Other Reportable Diseases	Mpox	A	0	0	0	0	0	1	0	0	0	0	0	0	0	1	2	10	1	
		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	25	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	4	0	4	1	2	8	3	1	3	11	16	1	1	2	57	434	0
		D	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	
	Meningitis	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	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		
Neglected Tr	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		4	11	1	9	0	15	0	6	0	11	0	27	0	4	14	176	1115	4	

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

Epidemiological bulletin published with support from WHO and CDC

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.