



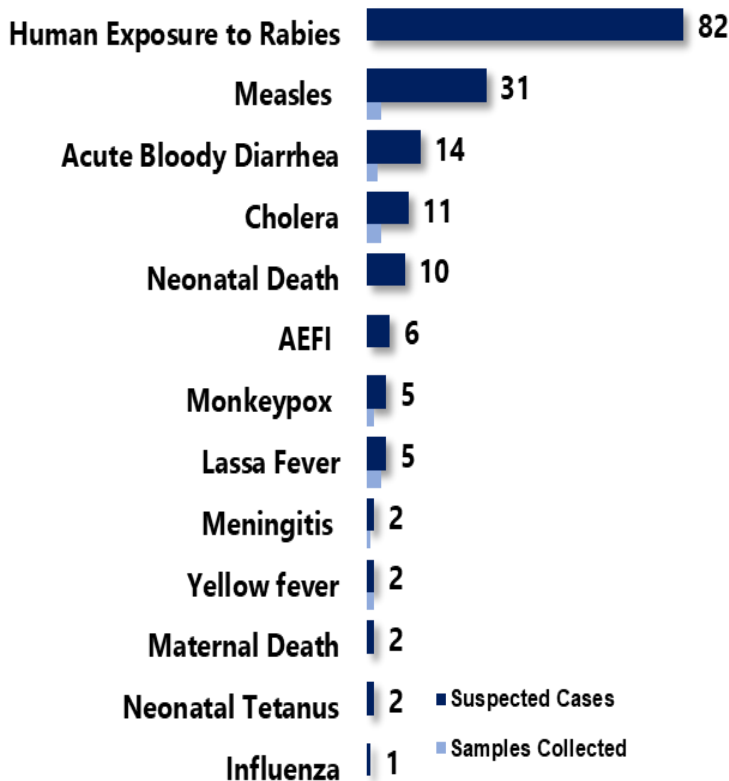
Liberia IDSR Epidemiology Bulletin

Epi-week 30 (July 24- 30, 2023)

Country Population: 5,104,413 | Volume 30 Issue 18 | July 24-30, 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 173 events of public health importance including 13 deaths reported
- ◆ Completeness and timeliness of health facility reports were 98% & 97%
- ◆ Ongoing Lassa fever outbreak in 2 Counties
- ◆ Ongoing Measles outbreak in 9 Counties

Adverse Events Following Immunization/Adverse Drug Reaction (AEFI)

Reporting Coverage

Table 1: Health Facility Weekly IDSR Reporting Coverage, Liberia, Epi-week 30, 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	390	95	93
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	98	97

956(98%)
Health facilities reported IDSR data

98(100%)
Health districts reported IDSR data

951 (97%)
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:



Vaccine-Preventable Diseases

Measles

- ☞ Thirty-one (31) suspected cases were reported from 10 Counties (see distribution in Table 2)
- ☞ Four (4) specimens collected and pending testing
- ☞ Nineteen (19) were vaccinated (see distribution in Table 3)

Table 2: Distribution of Measles cases per county and epi-classification, Liberia, Epi week 30, 2023

COUNTY	Cases Week 30	Lab confirmed Epi Week 30	CLASSIFICATION OF CONFIRMED CASES, EPI WEEK 1-30			Deaths	CFR (%)	CUMULATIVE # SUSPECTED CASES, EPI WEEK 1-30	CUMULATIVE # CONFIRMED CASES, EPI WEEK 1-30
			Lab confirmed	Epi Linked	Clinically Compatible				
Bomi	0	0	0	13	51	0	0.0	75	66
Bong	0	0	2	6	193	1	0.5	201	201
Gbarpolu	0	0	0	0	34	0	0.0	35	34
Grand Bassa	1	0	0	0	164	0	0.0	166	164
Grand Cape Mount	1	0	0	2	62	0	0.0	73	65
Grand Gedeh	6	0	4	26	264	0	0.0	337	294
Grand Kru	1	0	6	72	636	2	0.3	716	714
Lofa	1	0	0	0	103	0	0.0	111	103
Margibi	1	0	1	8	189	0	0.0	200	198
Maryland	10	0	0	0	628	0	0.0	630	628
Montserrado	7	0	4	53	964	2	0.2	1029	1021
Nimba	2	0	2	33	271	3	1.1	308	306
River Gee	0	0	0	0	108	0	0.0	128	108
Rivercess	0	0	1	0	27	0	0.0	33	28
Sinoe	1	0	4	11	88	0	0.0	117	103
Grand Total	31	0	27	224	3,782	8	2	4,159	4,033

Table 3: Vaccination Status of Measles Cases, Liberia, Epi-week 30, 2023

County	Vaccinated	Number of Doses Received		
		One Dose	Two Doses	Doses Not Indicated
Bomi	0	0	0	0
Bong	0	0	0	0
Gbarpolu	0	0	0	0
Grand Bassa	1	0	0	1
Grand Cape Mount	0	0	0	0
Grand Gedeh	5	4	0	1
Grand Kru	0	0	0	0
Lofa	1	0	0	1
Margibi	1	1	0	0
Maryland	1	1	0	0
Montserrado	7	6	1	0
Nimba	2	2	0	0
River Gee	0	0	0	0
Rivercess	0	0	0	0
Sinoe	1	0	0	1
National	19	14	1	4

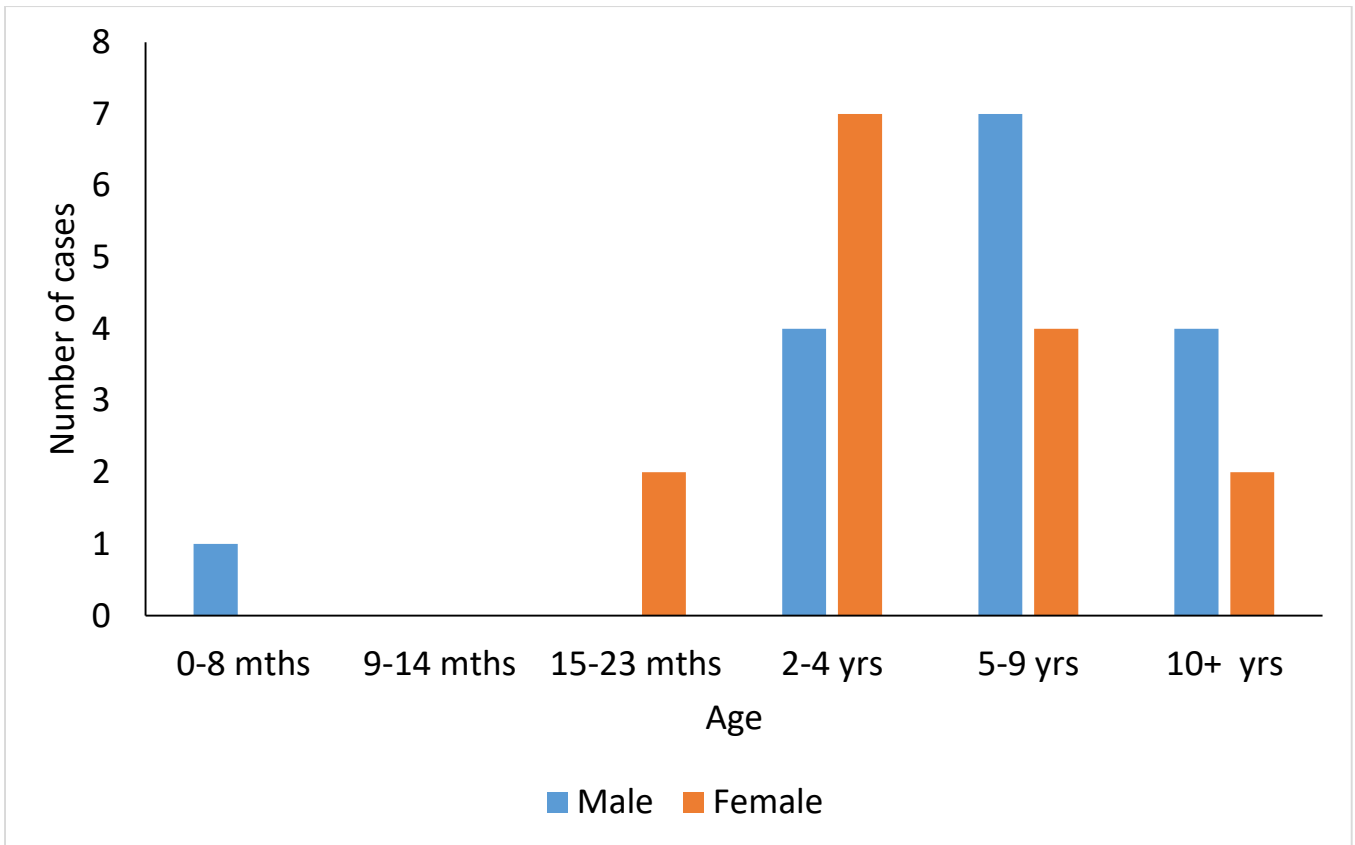


Figure 2: Distribution of Measles Cases by Age Group and Sex, Liberia Epi Week 30, 2023

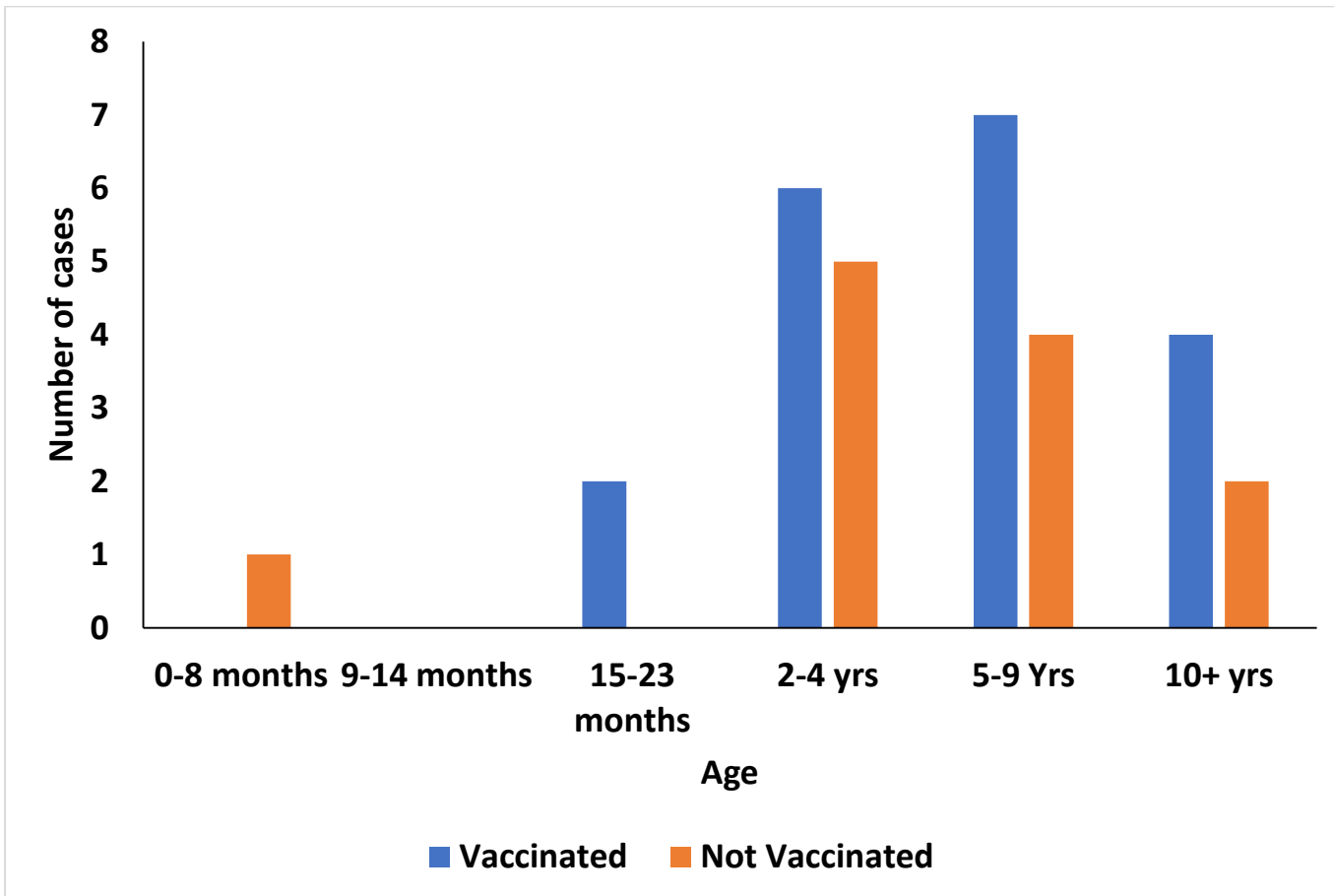


Figure 3: Vaccination Status of Suspected Measles Cases by Age Group, Liberia, Epi-Week 30, 2023

Table 4: Cumulative Distribution of Measles Cases and Deaths, December 13, 2021- July 30, 2023

COUNTY	CUMULATIVE SUSPECTED CASES	CUMULATIVE CONFIRMED CASES	CLASSIFICATION OF CONFIRMED CASES			CLASSIFICATION OF CONFIRMED DEATHS			CUMULATIVE DEATHS	CFR (%)	# CONFIRMED CASES WEEK 29	# CONFIRMED CASES WEEK 30	% CHANGE	Outbreak Status
			Lab confirmed	Epi Linked	Clinically Compatible	Lab confirmed	Epi Linked	Clinically Compatible						
Montserado	5,387	5,310	145	1657	3,508	3	61	5	69	1.3	16	7	-56	Ongoing
Nimba	1,074	1,043	37	187	819	0	1	3	4	0.4	1	2	100	Ongoing
Margibi	827	803	34	136	633	0	0	1	1	0.1	0	0	-	Ongoing
Grand Bassa	943	905	40	212	653	1	0	6	7	0.9	6	0	-100	Ongoing
Lofa	349	280	32	66	182	0	0	0	0	0	2	0	-100	Ongoing
Bong	599	574	22	21	531	0	1	2	3	0.5	2	0	-100	Ongoing
Maryland	1021	1006	24	308	674	0	0	0	0	0	9	10	11	Ongoing
Grand Gedeh	581	421	34	48	339	0	0	0	0	0	7	6	-14	Ongoing
Sinoe	284	231	36	84	111	0	0	0	0	0	0	0	-	Ended
Bomi	183	147	34	27	86	1	2	2	5	3	0	0	-	Ended
Grd Cape Mt	215	187	17	18	152	0	2	1	3	1.6	0	0	-	Ended
Grand Kru	972	943	22	106	815	0	0	2	2	0.2	3	1	-67	Ongoing
Gbarpolu	67	46	4	2	40	0	0	0	0	0	0	0	-	Ended
Rivercess	112	84	23	54	7	0	1	0	1	1.1	0	0	-	Ended
River Gee	103	79	0	0	79	0	0	0	0	0	0	0	-	Ended
Total	12,717	12,059	504	2,926	8,625	5	68	22	95	7.8	46	26		

Public Health Response

I. Coordination

- o IMS meeting is held weekly for coordination and mobilization of resources in response counties

II. Epidemiological Surveillance

- o Active case search ongoing in Grand Gedeh County with support from Last Mile Health

III. Case management

- o All reported cases were treated and sent home from isolation (Maryland and Grand Kru) counties

IV. Immunization

- o Routine immunization going in affected Counties

V. Laboratory

- o Specimens were collected from 2 districts in 2 counties (Lofa-Foya and Nimba-Sanniquellie-Mah)
- o Five hundred nine (509) cases have been confirmed by laboratory from December 13, 2021-July 23, 2023

VI. Risk Communication and Community Engagement

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

VII. Challenges

- DSOs in Bong Grand Gedeh, and Montserrado Counties are constrained in submitting report due to lack of computers
- No functional motorbikes for CSOs in Margibi and Nimba Counties. Garwula District, Grand Cape Mounty including all DSOs in Nimba, and all districts in Margibi Counties. Thus limiting their movement
- Limited functional laptop computers for DSOs (Gbarpolu, Bomi, Bong, Montserrado, Rivercess, and Margibi)
- Limited specimen collection kits for priority diseases in Montserrado County

Acute Flaccid Paralysis (AFP)

- ☞ Zero suspected cases were reported
- ☞ Cumulatively, thirty-one (31) cases were reported
 - Ten (10) tested negative
 - Twenty-one (21) pending

Neonatal Tetanus

- ☞ Two (2) cases were reported from Grand Bassa and Montserrado Counties
- ☞ Cumulatively, forty-one (41) cases including 5 deaths reported

Influenza-Like Illnesses

Influenza

- ☞ One (1) suspected case reported from Grand Bassa County
- ☞ Cumulatively, sixty-nine (69) suspected cases reported

Viral Hemorrhagic Diseases

Lassa fever

- ☞ Five (5) suspected cases were reported from Bong (4), and Montserrado Counties
- ☞ All four specimens were collected: 4 tested negative
- ☞ Cumulatively, one hundred fifty-two (152) suspected cases reported
 - Proportion of suspected cases with a sample collected (137/152) 90%
 - Proportion of suspected cases with sample tested (137/137) 100%

Current Outbreak

Lassa fever disease

- ☞ No new confirmed case was reported
- ☞ Cumulatively, eighty-three (83) laboratory-confirmed cases including 25 deaths reported (CFR=30%)

Table 5: Summary of Lassa fever Outbreak, Liberia, Sept 9, 2022, to present

County	Outbreak Districts	Outbreak Start Date	Total suspected cases	Total confirmed cases	Deaths in HCWs	Total Deaths	CFR %	Total Contacts	# HCW contacts	Contacts became cases	HCW became confirmed case	Contacts under follow up	Contacts completed	Days in countdown	Outbreak Status
Montserrado	Bushrod	13-Feb-23	5	2	0	1	50%	29	21	0	0	0	29	Completed	Over
	Central Monrovia	3-Mar-23	13	1	0	1	100%	28	27	0	0	0	28	Completed	Over
Bong	Suakoko	21-Apr-23	125	36	2	8	21%	320	154	6	4	15	313	Active	Ongoing
	Sanoyea	5-Apr-22	1	1	0	1	100%	31	15	0	0	0	31	Completed	Over
	Jorquelleh	6-Jan-22	11	8	1	2	25%	115	75	3	3	0	107	Completed	Over
Grand Bassa	District 3A&B	9-Sep-22	60	30	0	9	30%	159	30	2	0	0	159	Completed	Over
Nimba	Sanniquellie-Mah	6-Feb-23	2	2	0	0	0%	43	35	8	0	0	43	Completed	Over
	Tappita	13-Mar-23	5	1	0	1	100%	36	17	4	0	0	36	Completed	Over
	Bain-Garr	1-Jun-23	12	2	0	2	100%	30	25	0	0	16	14	Active	Ongoing
	8		234	83	3	25	29%	791	399	23	7	31	760		

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

- The case was isolated and ribavirin treatment was administered but later expired

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) suspected cases were reported from Bomi and Grand Kru Counties
- 📊 Cumulatively sixty-six (66) suspected cases were reported
 - Fifty-five (55) samples (55/66) 83% were collected
 - Three (3) samples (3/55) 5% not transported (Epi week 5 from Grand Gedeh, River Gee, and Grand Kru Counties)
 - The proportion of samples tested is (38/52) 73%
 - The proportion of samples pending testing is (14/52) 27%

Dengue Fever

- 📊 Zero cases were reported

Ebola Virus Disease

- 📊 Zero cases were reported

Diarrheal Diseases

Acute Bloody Diarrhea (Suspected Shigellosis)

- 📊 Fourteen (14) cases were reported Lofa (5), Sinoe (3), Grand Gedeh (2), Margibi (1), Grand Kru (1), Nimba (1), and Grand Bassa (1) Counties
- 📊 Three (3) specimens were collected and pending testing
- 📊 Cumulatively, four hundred five (405) cases were reported
 - One hundred forty-nine (149) specimens were collected
 - 73 tested negative
 - 7 specimens rejected
 - 69 specimens were not transported

Severe Acute Watery Diarrhea (Suspected Cholera)

- 📊 Eleven (11) suspected cases were reported: Grand Kru (3), Maryland (2), Lofa (2), Gbarpolu (1), Grand Gedeh (1), River Gee (1), and Nimba (1) Counties
- 📊 Four (4) specimens were collected and pending testing
- 📊 Cumulatively, five hundred fifty-one (551) cases reported
 - One hundred seventy-three (173) specimens collected
 - 63 tested negative
 - 7 specimens rejected
 - 103 specimens were not transported

Other Reportable Diseases

Animal bite (Human Exposure to Rabies)

Eighty-two (82) animal bites reported

Table 6: Distribution of Animal Bite Cases and PEP Administration per County, Liberia, Epi week 30, 2023

Counties	Cases	Person receiving PEP	PEP doses administered	Cumulative cases (Wk 1-30)	Cumulative PEP administered (Wk 1-30)
Bomi	1	0	0	46	27
Bong	5	3	3	146	64
Gbarpolu	0	0	0	17	0
Grand Bassa	9	0	0	173	13
Grand Cape Mount	3	2	2	51	33
Grand Gedeh	3	0	0	70	9
Grand Kru	4	0	0	168	15
Lofa	6	3	3	154	58
Margibi	3	2	2	119	57
Maryland	8	4	4	114	41
Montserrado	22	0	0	585	159
Nimba	13	1	1	278	115
Rivercess	3	2	2	38	49
River Gee	1	0	0	83	0
Sinoe	1	0	0	79	6
Total	82	17	17	2,121	646

Public Health Actions

Ongoing monitoring and follow-up of cases,

Meningitis

- Two (2) cases were reported from Grand Bassa county
- One specimen was collected and tested positive (H. Influenzae)
- Cumulatively, twenty-seven (27) suspected cases reported
 - Proportion of suspected cases with samples collected (24/27) 89%
 - Proportion of sample tested (20/24) 83%
 - 16 negative and 4 positive (Streptococcal-3 & Hemophilus Influenzae)

Mpox

- Five (5) cases were reported from Lofa (2), Maryland (1), Sinoe (1), and Nimba (1) Counties
- Two specimens collected from Nimba and one pending arrival from Maryland
- Cumulatively, one hundred-three (103) suspected cases reported
 - Seven (7) confirmed

Unexplained cluster of deaths

Zero cases reported

Events of Public Health Importance

Maternal Mortality

- Two (2) deaths were reported: Montserrado (1), and Nimba (1) Counties
- Reported causes: postpartum hemorrhage (2)
- Reporting Site:
 - Health facility (2/2) 100%
- Cumulatively, one hundred ninety-four (194) deaths reported
 - Proportion of death reviewed (41/194) 21%

- Proportion of community death (27/194)14%

Neonatal Mortality

- ☞ Ten (10) deaths were reported: Montserrado (7), Bomi (1), Margibi (1), and Nimba (1) Counties
- ☞ Reported causes: birth asphyxia (6), prematurity (3) and neonatal sepsis (1)
- ☞ Reporting sites:
 - Health facility (10/10) 100%
- ☞ Cumulatively, four hundred seventy-two (472) deaths reported

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

- ☞ Six (6) cases were reported from Grand Gedeh (2), Lofa (2), Grand Kru (1), and Grand Bassa (1) Counties
- ☞ All reported cases were non-serious
- ☞ Related vaccine:
 - Pent (3/6) 50%
 - Measles (2/6) 33%
 - TT (1/6) 17%
- ☞ Cumulatively, three hundred sixty-one (361) events were reported and COVID-19 accounted for (157/361) 43%

Neglected Tropical Diseases

YAWS

- ☞ Cumulatively, one hundred seventy-five (175) cases have been reported

Buruli Ulcer

- ☞ Cumulatively, one hundred fourteen (114) cases have been reported

Border Surveillance Update

- ☞ A total of 5,106 travelers were recorded for the week with incoming travelers accounting for 53% (2,716/5,106)

Table 7: Border activity at the PoE for incoming and outgoing travelers, Liberia, Epi week 30, 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	136	75	61	15	0	0	0	0	0	15
	Robert Int'l Airport	3997	2114	1883	3921	71	71	10	0	0	3939
Seaport	Freeport of Monrovia	126	63	63	126	0	0	0	0	0	126
	Buchanan Port	48	24	24	48	0	0	0	0	0	48
Land Crossing	Bo Water Side	467	244	223	459	8	8	0	0	0	458
	Ganta	177	106	71	80	5	0	0	0	0	56
	Yekepa	58	40	18	30	0	0	0	0	0	40
	Loguatu	97	50	47	85	0	0	0	0	0	53
Total		5,106	2,716	2,390	4,764	84	79	10	0	0	4,735

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

Public Health Measures

National level

- ☞ Community engagement and border meeting airing messages on Lassa fever, Mpox, COVID-19, and Measles in Nimba, Grand Cape Mount, and Grand Bassa Counties
- ☞ Review and validation of AEFI guidelines and SOP
- ☞ Providing remote technical and operational support to counties
- ☞ Produced and disseminated situation reports (Lassa fever, Measles, and Mpox outbreaks)

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
- 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	Montserado	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	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	0	0	0	0	0	0	0	0	0	0	0	0	0	31	0
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Measles	A	0	0	0	1	1	6	1	1	1	10	7	2	0	0	1	31	4,128	27
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	2
	Neonatal Tetanus	A	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	2	36	0
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0
	Yellow fever	A	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	2	66	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	2	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	0	0	0	0	5	125	26
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27	14
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
	Influenza Like Illnesses	A	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	69	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	1	0	2	1	5	1	0	0	1	0	0	3	14	149	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	1	0	0	1	3	2	0	2	0	1	0	1	0	11	173	0
		D	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	0	0	0	1	1	0	0	0	2	194		
	Neonatal Mortality	D	0	1	0	0	0	0	0	1	0	7	1	0	0	0	10	472		
	AEFI	A	0	0	0	1	0	2	1	2	0	0	0	0	0	0	0	6	361	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
Other Reportable Diseases	Mpox	A	0	0	0	0	0	0	2	0	1	0	1	0	0	1	5	103	7	
		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 Rabies (Suspected Human)	A	1	5	0	9	3	3	4	6	3	8	22	13	3	1	1	82	2,121	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	2	0	0	0	0	0	0	0	0	0	0	0	2	27	0
		D	0	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	0	
	D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
Neglected Tr	Buruli Ulcer	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	114	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	175	4
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL		2	10	1	16	0	14	0	18	0	21	0	20	0	2	6	173	8387	51	

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

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National Public Health Institute of Liberia (NPHIL)

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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.