

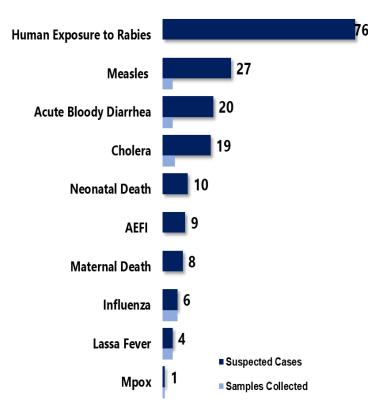
Liberia IDSR Epidemiology Bulletin

Epi-week 37 (September 11-17, 2023)

Country Population: 5,104,413 | Volume 19 Issue 37 | September 11-17, 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 180 events of public health importance including 18 deaths reported
- ◆ Completeness and timeliness of health facility reports were both 97%
- Ongoing Lassa fever outbreak in 3 Counties
- Ongoing Measles outbreak in 7 Counties

Adverse Events Following Immunization/Adverse Drug Reaction (AEFI)

Reporting Coverage

Table 1: Health Facility Weekly IDSR Reporting Coverage, Liberia, Epi-week 37, 2023

	Expected				
	Reports From	Reports	Received on	Completeness	Timeliness
County	HF*	Received	Time	(%)	(%)
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	394	394	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	954	954	97	97

• 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

954(97%) Health facilities reported IDSR data

98(100%)
Health
districts
reported
IDSR data

954 (97%)
Health
facilities
reported
timely IDSR
data

Vaccine-Preventable Diseases

<u>Measles</u>

- Twenty-seven (27) suspected cases were reported from 12 Counties (see distribution in Table 2)
- Fourteen (4) specimens were collected and pending testing
- Twelve (12) were vaccinated (see distribution in Table 3)

Table 2: Distribution of Measles cases per county and epi-classification, Liberia, Epi week 37, 2023

	CUMULATIVE	CUMULATIVE #	CLASS	SIFICATI SIRMED	ON OF	DEATHS		# CONFIRMED	#	%	
COUNTY	# SUSPECTED CASES	CONFIRMED CASES	Lab confirmed	Epi Linked	Clinically Compatible		(%)	CASES WEEK 36	CASES WEEK 37	CHANGE	
Bomi	78	68	2	13	53	0	0.0	0	1	0	
Bong	208	208	2	6	200	1	0.5	0	1	0	
Gbarpolu	38	37	0	0	37	0	0.0	0	0	0	
Grand Bassa	173	170	0	0	170	0	0.0	2	0	-100	
Grand Cape Mount	74	66	1	2	63	0	0.0	1	0	-100	
Grand Gedeh	389	345	6	27	312	0	0.0	7	5	-29	
Grand Kru	734	729	9	72	648	2	0.3	4	0	-100	
Lofa	129	121	0	0	121	0	0.0	2	2	0	
Margibi	201	199	1	8	190	0	0.0	0	0	0	
Maryland	691	689	0	0	689	0	0.0	8	6	-25	
Montserrado	1076	1068	4	53	1011	2	0.2	6	3	-50	
Nimba	351	344	2	33	309	3	0.9	8	4	-50	
River Gee	136	110	1	0	109	0	0.0	1	0	-100	
Rivercess	35	30	1	0	29	0	0.0	0	1	0	
Sinoe	137	118	6	11	101	0	0.0	4	4	0	

Table 3: Vaccination Status of Measles Cases, Liberia, Epi-week 37, 2023

			Number of Doses Received										
County	Vaccinated	One Dose	Two Doses	Doses Not Indicated									
Bomi	1	0	1	0									
Bong	1	1	0	0									
Gbarpolu	0	0	0	0									
Grand Bassa	0	0	0	0									
Grand Cape Mount	0	0	0	0									
Grand Gedeh	0	0	0	0									
Grand Kru	0	0	0	0									
Lofa	2	1	0	1									
Margibi	0	0	0	0									
Maryland	1	1	0	0									
Montserrado	2	2	0	0									
Nimba	3	2	0	1									
River Gee	0	0	0	0									
Rivercess	1	1	0	0									
Sinoe	1	0	0	1									
National	12	8	1	3									

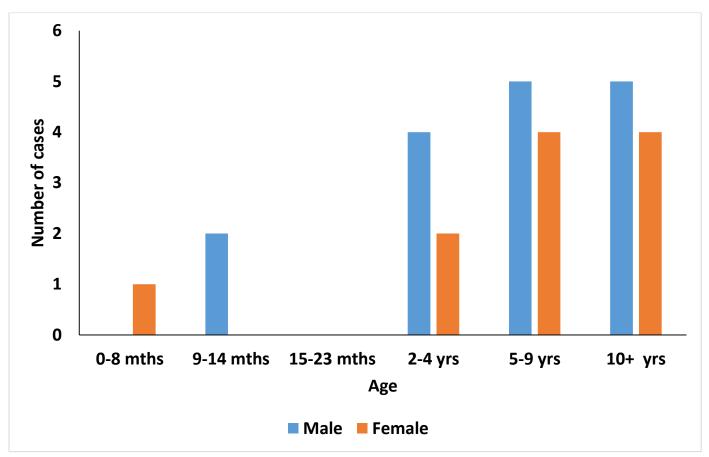


Figure 2: Distribution of Measles Cases by Age Group and Sex, Liberia Epi Week 37, 2023

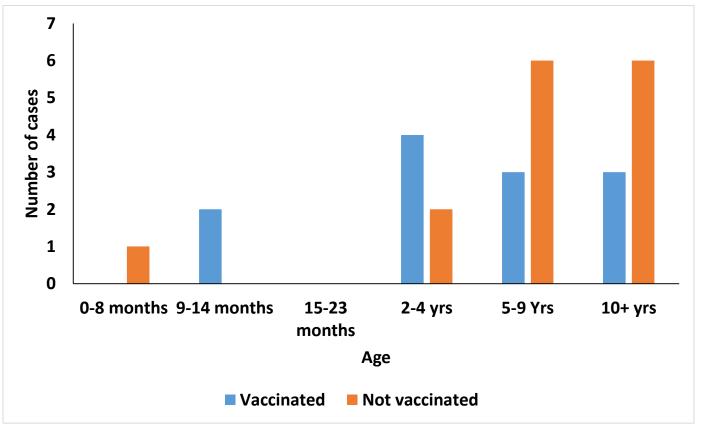


Figure 3: Vaccination Status of Suspected Measles Cases by Age Group, Liberia, Epi-Week 37, 2023

Outbreak Section

Table 4: Cumulative Distribution of Measles Cases and Deaths, December 13, 2021- September 17, 2023

COUNTY	CUMULATI VE	CUMULATIV E		SSIFICATI SFIRMED (SSIFICATION DISTRIBUTION DE LA COMPANION DE LA		CUMULA TIVE	CFR	# CONFIR MED	# CONFIRME D CASES WEEK 35	% CHANG	Outbreak
	SUSPECTE D CASES	CONFIRMED CASES	Lab confirmed	Epi Linked	Clinically Compatible	Lab confirmed	Epi Linked	Clinically Compatible	DEATHS	(%)	CASES WEEK 34		E	Status
Montserrado	5, 470	5,384	145	165 8	3, 581	3	61	5	69	1.3	6	40	567	Ongoing
Nimba	1, 124	1,091	37	187	867	0	1	3	4	0.4	8	11	38	Ongoing
Margibi	833	809	34	136	639	0	0	1	1	0.1	0	6	-	Ended
Grand Bassa	970	932	40	212	680	1	0	6	7	0.9	1	9	89	Ongoing
Lofa	353	284	32	66	186	0	0	0	0	0	0	0	-	Ended
Bong	604	579	22	21	536	0	1	2	3	0.5	0	1	-	Ongoing
Maryland	1073	1053	24	308	721	0	0	0	0	0	7	2	71	Ongoing
Grand Gedeh	625	465	34	48	383	0	0	0	0	0	5	3	-40	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	992	963	22	106	835	0	0	2	2	0.2	0	6	-	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	13,008	12,334	504	2,9 27	8,903	5	68	22	95	7.8	27	78		

Public Health Response

I. Coordination

- IMS meetings are being held for coordination and mobilization of resources in response counties
- UNICEF made available \$250.00 US with two (2) ream of sheets for response in Grand Gedeh County

II. Epidemiological Surveillance

- 38 contacts are under follow-up in Grand Gedeh County
- Contact tracing and line listing of cases ongoing in the affected communities in Grand Kru and Grand Gedeh Counties
- Active case search ongoing with support from UNICEF and Grand Gedeh CHT.

III. Case management

UNICEF donated Vitamin A and Amoxicillin for case management in Grand Gedeh County

IV. Immunization

A 3-day mop-up immunization campaign ongoing in affected and surrounding communities in Tchien district, Grand Gedeh County, Targeted children 9 months -2 years. (September 20-22, 2023).

V. Laboratory

- Specimens were collected from 5 counties and 7 districts Lofa-Zorzor, Rivercess-Timbo, Grand Gedeh-Konobo, Putu and Gbao, Grand Kru-Buah, and Sinoe-Gblonee.
- The National Public Health Reference Laboratory from December 13, 2021 September 20, 2023, has confirmed five hundred four (504) cases.

VI. Risk Communication and Community Engagement

- Awareness and health education are ongoing on the spread and prevention of Measles at health facility and community levels in Grand Kru County
- Community engagement meetings in the affected communities are ongoing in Grand Kru County.

VII. Challenges

- Insufficient essential medications for case management (Amoxicillin, Erythromycin, Vitamin A, Calamine Lotion, and Tetracycline eye ointment) Grand Kru County
- Insufficient gasoline to intensify response activities in Grand Kru and Grand Gedeh Counties
- Delay lab result from NPHRL (Grand Gedeh)
- Lack of specific budget support for response

Acute Flaccid Paralysis (AFP)

- Zero suspected cases reported
- Cumulatively, thirty-four (34) cases were reported
 - o Ten (10) tested negative
 - o Twenty-four (24) pending

Neonatal Tetanus

- Zero cases reported
- Cumulatively, forty-six (46) cases including 6 deaths reported

Influenza-Like Illnesses

Influenza

- Six (6) suspected cases were reported from Montserrado County
- Specimens were collected and pending testing
- Cumulatively, ninety-five (95) suspected cases reported
 - o Proportion cases with sample collected (90/95) 95%
 - o Proportion of cases with sample tested (30/90) 33% and all negative

Viral Hemorrhagic Diseases

Lassa fever

- Four (4) suspected cases were reported from Bong (3), and Nimba (1) Counties
- Specimens were collected and tested; 2 positive, and 2 negative
- Cumulatively, one hundred seventy-nine (179) suspected cases reported
 - Proportion of suspected cases with a sample collected (163/179) 91%
 - o Proportion of suspected cases with sample tested (163/163) 100% (confirmed 49, negative 114)

Current Outbreak

Lassa fever disease

- Two (2) new confirmed cases were reported from Suakoko District
- Cumulatively, ninety-three (93) laboratory-confirmed cases including 27 deaths reported (CFR=29%)

Table 6: Summary of Lassa fever Outbreak, Liberia, January 6, 2022- September 20, 2023

County		Outbreak Start Date	Total suspecte d cases	Total confirme d cases	Deaths in HCWs	Total Deaths	CFR %	Total Contacts	# HCW contacts	Contacts _became cases	confirme	Contacts under follow up	complete		Outbreak Status
Montserr	Bushrod	13-Feb-23	15	2	О	1	50%	29	21	О	О	О	29	Complete d	Over
ado	Central Monrovia	3-Mar-23	28	1	О	1	100%	28	27	О	О	О	28	Complete d	Over
	Suakoko	21-Apr-23	147	42	2	8	19%	401	173	6	4	17	334	Active	Ongoing
Bong	Sanoyea	19-Sep-23	2	2	О	1	50%	36	18	О	О	6	31	Active	Ongoing
	Jorquelleh	6-Jan-22	13	9	1	2	25%	107	69	3	3	О	107	Complete d	Over
Grand	District 3A&B	9-Sep-22	86	32	0	9	28%	177	40	40	О	23	159	Active	Ongoing
Bassa	Buchanan	11-Aug-23	2	1	О	1	100%	4	2	0	0	4	О	Active	Ongoing
	Sanniquell ie-Mah	6-Feb-23	36	2	О	О	0%	43	35	8	О	О	43	Complete d	Over
Nimba	Tappita	13-Mar-23	12	1	О	1	100%	36	17	4	О	o	36	Complete d	Over
	Bain-Garr	1-Jun-23	10	3	0	3	100%	30	25	0	0	0	30	Active	Ongoing
Total			351	94	3	27	29%	886	424	61	7	50	797		

Public Health Measures

o The National Public Health Institute of Liberia (NPHIL) and the Ministry of Health (MOH) are providing technical and logistical support to County Health Teams with support from partners.

I. Surveillance:

- Active case search and contact tracing ongoing in affected communities and districts
- Development and dissemination of weekly sit-reps by affected counties

II. Laboratory

- o The National Public Health Reference Laboratory continues testing of Lassa fever samples
- A total of 87 Lassa fever cases have been confirmed since this outbreak

III. Case management and IPC

Cases isolated and managed at designated facilities

IV. Environmental and Vector Control

Ongoing clean-up campaigns and rodent control measures in Grand Bassa County

V. Risk Communication and Community Engagement

- o Risk communication and community engagement ongoing in affected and surrounding communities
- o Airing of jingles on Lassa fever prevention and control in Bong and Grand Bassa Counties

Yellow fever

- Zero suspected cases reported
- Cumulatively eighty-five (85) suspected cases were reported
 - Three (3) samples (3/63) 5% not transported (Epi week 5 from Grand Gedeh, River Gee, and Grand Kru Counties)
 - o Proportion of suspected cases with samples collected (69/85) 81%
 - The proportion of samples tested is 78% (51/69)
 - o The proportion of samples pending testing is 22% (15/69)

Dengue Fever

Zero cases were reported

Ebola Virus Disease

Zero cases were reported

Diarrheal Diseases

Acute Bloody Diarrhea (Suspected Shigellosis)

- Twenty (20) cases were reported: Nimba (5), Lofa (4), Grand Gedeh (3), Sinoe (3), Grand Kru (2), Rivercess (1), Gbarpolu (1), and Maryland (1) Counties
- Four (4) specimens were collected and pending testing
- Cumulatively, five hundred thirty-eight (538) cases were reported
 - One hundred eighty-six (186) specimens were collected
 - 79 tested negative
 - 96 specimens were not transported
 - 11 pending testing

Severe Acute Watery Diarrhea (Suspected Cholera)

- Nineteen (19) suspected cases were reported: Bong (4), Nimba (3), Lofa (3), Maryland (3), Grand Kru (1), Gbarpolu (1), Bomi (1), Sinoe (1), Montserrado (1), and River Gee (1) Counties
- Five (5) specimens were collected and pending testing
- Cumulatively, six hundred ninety-three (693) cases reported
 - o Two hundred fifteen (215) specimens collected
 - 73 tested negative
 - 7 specimens rejected
 - o 121 specimens were not transported
 - 14 pending testing

Other Reportable Diseases

Animal bite (Human Exposure to Rabies)

Seventy-six (76) animal bites were reported

Table 6: Distribution of Animal Bite Cases and PEP Administration per County, Liberia, Epi week 37, 2023

Counties	Cases	Person receiving PEP	PEP doses administered	Cumulative cases (Wk 1- 37)	Cumulative PEP administered (Wk 1-37)		
Bomi	2	2	2	54	31		
Bong	2	0	0	165	68		
Gbarpolu	3	0	0	26	1		
Grand Bassa	3	0	0	221	20		
Grand Cape Mount	4	2	2	60	36		
Grand Gedeh	1	1	1	87	3		
Grand Kru	6	0	0	202	15		
Lofa	3	0	0	183	72		
Margibi	5	0	0	152	64		
Maryland	8	6	6	148	55		
Montserrado	19	2	2	742	181		
Nimba	15	3	3	412	143		
Rivercess	1	1	1	94	54		
River Gee	0	0	0	41	0		
Sinoe	4	0	0	104	6		
Total	76	17	17	2,691	749		

Public Health Actions

Ongoing monitoring and follow-up of cases

Meningitis

- Zero cases were reported
- Cumulatively, thirty-one (31) suspected cases reported
 - Proportion of suspected cases with samples collected (26/31) 84%
 - o Proportion of sample tested (22/26) 85%
 - 17 negative and 4 positive (Streptococcal-3 & Hemophilus Influenza)

Mpox

- One (1) suspected case was reported from River Gee County
- Specimen was collected and pending testing
- Cumulatively, one hundred fourteen (114) suspected cases reported
 - o Seven (7) confirmed

Unexplained cluster of deaths

Zero cases reported

Events of Public Health Importance

Maternal Mortality

Eight (8) deaths were reported from Sinoe (3), Margibi (1), Bong (1), Lofa (1), Grand Bassa (1), and Montserrado (1) Counties

- Reported cause: Post-partum Hemorrhage (5), Obstructed labor (1), Retained placenta/anemia (1), and Disseminated Intravascular Coagulation (DIC) (1)
- Reporting Site:
 - o Health Facility (8/8) 100%
- Cumulatively, two hundred twenty-six (236) deaths reported
 - o Proportion of death reviewed (58/236) 25%
 - Proportion of community death (27/236)11%

Neonatal Mortality

- From (10) deaths were reported from Montserrado (7), Grand Kru (2), and Nimba (1) Counties
- Reported causes: Birth asphyxia (5), Neonatal sepsis (2), Preterm (1), Hypoglycemia (1), and one pending investigation
- Reporting site:
 - Health facility: 10/10 (100%)
- Cumulatively, five hundred eighty-one (581) deaths reported

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

- Nine (9) cases were reported: Lofa (4), Sinoe (2), Grand Bassa (2), and Bomi (1) Counties
- All reported cases were classified as non-serious
- Related vaccine:
 - Penta (4/9) 44.4%
 - o COVID-19 (1/9) 11.1%
 - o Others (4/9) 44.4%
- Cumulatively, five hundred thirty-four (534) events were reported and COVID-19 accounted for (183/534) 34%

Neglected Tropical Diseases

YAWS

- Zero cases reported
- Cumulatively, one hundred ninety-two (192) cases have been reported

Buruli Ulcer

- Zero suspected cases reported
- Cumulatively, one hundred nineteen (119) cases have been reported

Border Surveillance Update

A total of 4,704 travelers were recorded for the week with incoming travelers accounting for 49% (2,327/4,704)

Table 7: Border activity at the PoE for incoming and outgoing travelers, Liberia, Epi week 37, 2023

					Total	Yellow		Travelers Vaccinate d against YF &	Alerts		Evidence of COVID-19
		Weekly			traverlers	Book	Card	Issued	detected/	COVID-19	vaccination
Type of Ports	Point of Entry	total	Arrival	Departure	with YB	Damage	Replaced	book	Verified	Reactive	card/certificate
	James S. Paynes	129	47	82	10	0	0	0	0	0	20
Airport	Robert Int'l Airport	3501	1672	1829	3423	65	65	26	0	0	3445
Seaport	Freeport of Monrovia	116	58	58	116	0	0	0	0	0	116
	Buchanan Port	160	80	80	160	0	0	0	0	0	160
	Bo Water Side	460	269	191	453	4	4	3	0	0	440
Land Crossing	Ganta	132	94	38	83	0	0	0	0	0	35
Lanu Crossing	Yekepa	121	69	52	61	0	0	0	0	0	74
	Loguatuo	85	38	47	56	0	0	0	0	0	26
Total		4,704	2,327	2,377	4,362	69	69	29	0	0	4,316

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

Public Health Measures

National level

- Continue to distribute surveillance weekly ledgers and triplicate Lab alert and submission forms to the counties
- Distribution of 10 motorcycles to nine DSOs and one CSO from seven counties
- Providing remote technical and operational support to counties
- Produced and disseminated situation reports (Lassa fever, Measles, and Mpox outbreaks)

County-level

Coordination

o Partner coordination and resource mapping

☞ Surveillance

- Publication of situational reports
- o Active case search ongoing in affected and surrounding communities

Case Management

- o Administration of PEP
- o Management of measles cases ongoing

Appendi																				
Summar	y of Immediately Reportable D	Dise	ase	s, C	ond	itio	ns, a	and	Eve	nts	by (Cou	nty	l						
			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 Expec	ted Health District		4	9	5	8	5	6	5	6	4	6	7	11	6	6	10	98		
	h District Reported		4	9	5	8	5	6	5	6	4	6	7	11	6	6	10	98		
Viral Hemorrhagic Fe Vaccine Preventable Disease	Acute Flaccid Paralysis (Suspected Polio)	A D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34 0	0
entable	Measles	A D	0	0	0	0	0	5	0	0	0	6 0	3	0	0	0	0	27 0	4,378 8	35 2
e Preve	Neonatal Tetanus	A D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46 6	0
Vaccin	Yellow fever	A D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	85 0	0
agic Fe	Dengue fever	A D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
morrh	Ebola Virus Disease	A D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Viral H	Lassa fever	A D	0	3	0	0	0	0	0	0	0	0	0	1 0	0	0	0	4	145 34	33 16
	COVID-19	A D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Influen	Influenza Like Illnesses	A D	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	6	95 0	0
Dise	Acute Bloody Diarrhoea (Shigellosis)	A D	0	0	1 0	0	0	3	2	4	0	1 0	0	5	1 0	0	3	20	538	0
Public Health Ir Diarrheal Dise Influenza-Lik	Severe Acute Watery Diarrhoea (Cholera)	Α	1	4	1	0	0	0	1	3	0	3	1	3	0	1	1	19	693	0
# - -	Maternal Mortality	D D	0	1	0	0	0	0	0	0	1	0	0	0	0	0	3	8	236	0
ic Hea	Neonatal Mortality	D	0	0	0	0	0	0	2	0	0	0	7	1	0	0	0	10	581	
	AEFI	A D	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2	9	534 0	0
Events of	Unexplained Cluster of Health Events/Disease	A D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Мрох	Α	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	114	7
)isease:	Tuberculosis	D A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Reportable Diseases	Human Exposure to Rabies (Suspected Huma	D A	0	0	3	3	0 4	0	6	3	5	8	0 19	0 15	0	0	0	76	0 2,691	0
r Re poi	Meningitis	D A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 31	0
Othe	Unexplained Cluster of deaths	D A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ĕ	·	D A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1 119	0
Neglected Tr	Buruli Ulcer	D A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 184	0
Z Z	Yaws	D TAL	0	0	0	0	0	0	0	0 17	0	0	0	0	0	0	0	0	0	0
	10	·AL	,			U	<u> </u>	9	ı v	1 17	L U	13	, J	23	U	_	L ''	.00	10000	UU

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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National Public Health Institute of Liberia (NPHIL)

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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.