

Adverse Events Following Immunization/Adverse Drug Reaction (AEFI)

Reporting Coverage

Table 1: Health Facility Weekly IDSR Reporting Coverage, Liberia, Epi-week 40, 2023

	Expected					953(97%)
. .	Reports From	Reports	Received on	Completeness	Timeliness	Health
County	HF*	Received	Time	(%)	(%)	facilities
Bomi	28	28	28	100	100	reported
Bong	67	67	67	100	100	IDSR data
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	98(100%)
Grand Kru	24	24	24	100	100	Health
Lofa	60	60	60	100	100	districts
Margibi	66	66	66	100	100	reported
Maryland	28	28	28	100	100	IDSR data
Montserrado	418	393	393	94	94	
Nimba	92	92	92	100	100	
Rivercess	21	21	21	100	100	
River Gee	20	20	20	100	100	953 (97%)
Sinoe	41	41	41	100	100	953 (97%) Health
Liberia	978	953	953	97	97	facilities
						reported

• The national target for weekly IDSR reporting is 80%. Health facility timeliness is monitored at the health district level

<80

• All counties reported on time to the national level

≥80

Legend:

timely IDSR

<u>Measles</u>

- From Thirty-two (32) suspected cases were reported from 9 Counties (see distribution in Table 2)
- Eleven (11) specimens were collected and pending testing
- Eighteen (18) were vaccinated (see distribution in Table 3)

Table 2: Distribution of Measles cases per county and epi-classification, Liberia, Epi week 40, 2023

	CUMULATIVE	#		SIFICAT	CASES		CFR	# CONFIRMED	# SUISPECTED	%
COUNTY	# SUSPECTED CASES	CONFIRMED CASES	Lab confirmed	Epi Linked	Clinically Compatible	DEATHS	(%)	CASES WEEK 40	CASES WEEK 40	CHANGE
Bomi	80	69	2	13	54	0	0.0	0	1	0
Bong	209	209	2 6		201	1	0.5	1	0	-100
Gbarpolu	41	40	0	0	40	0	0.0	1	0	-100
Grand Bassa	174	171	0	0	171	0	0.0	0	0	0
Grand Cape Mount	75	67	1	2	64	0	0.0	0	0	0
Grand Gedeh	406	362	6	27	329	0	0.0	5	8	60
Grand Kru	738	732	10	72	650	2	0.3	3	0	-100
Lofa	136	128	0	0	128	0	0.0	1	4	300
Margibi	201	199	1	8	190	0	0.0	0	0	0
Maryland	716	714	0	0	714	0	0.0	5	11	120
Montserrado	1086	1078	4	53	1021	2	0.2	2	3	50
Nimba	361	352	2	33	317	3	0.9	1	1	0
River Gee	141	115	1	0	114	0	0.0	2	2	0
Rivercess	35	30	1	0	29	0	0.0	0	0	0
Sinoe	140	121	6	11	104	0	0.0	0	2	0

Table 3: Vaccination Status of Measles Cases, Liberia, Epi-week 40, 2023

			ses Received	
County	Vaccinated	One-Dose	Two Doses	Doses Not Indicated
Bomi	0	0	0	0
Bong	0	0	0	0
Gbarpolu	0	0	0	0
Grand Bassa	0	0	0	0
Grand Cape Mount	0	0	0	0
Grand Gedeh	4	4	0	0
Grand Kru	0	0	0	0
Lofa	4	1	0	3
Margibi	0	0	0	0
Maryland	3	1	0	2
Montserrado	3	1	2	0
Nimba	0	0	0	0
River Gee	2	0	0	2
Rivercess	0	0	0	0
Sinoe	2	2	0	0
National	18	9	2	7

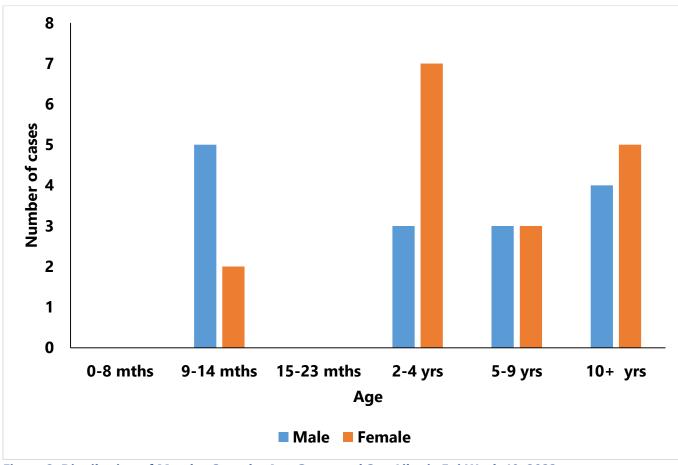
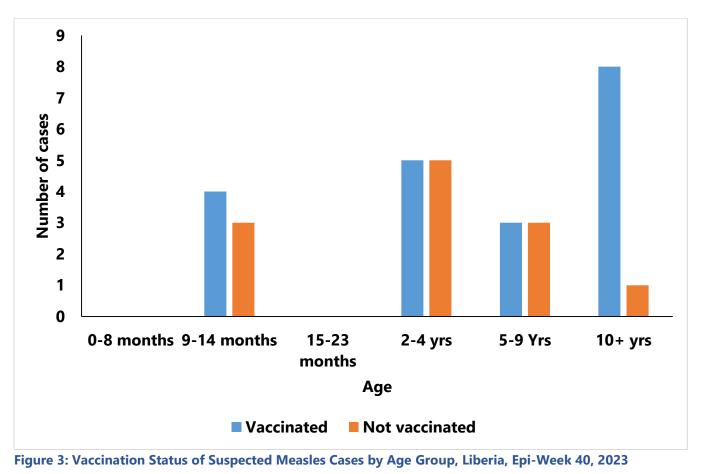


Figure 2: Distribution of Measles Cases by Age Group and Sex, Liberia Epi Week 40, 2023



<u>Outbreak Section</u>	
Table 4: Cumulative Distribution of Measles Cases and Deaths, December 13, 2021- October 8. 2023	

COUNTY	CUMULA TIVE SUSPECT	CUMUL ATIVE CONFIR	ATIVE CONFIRMED CASES CONFIRMED DEATHS		CUMULA TIVE	CFR (%)	# CONFIR MED	# CONFIRM ED CASES WEEK 39	% CHANGE	Outbrea k Status				
	ED CASES	MED CASES	Lab confirmed	Epi Linked	Clinically Compatible	Lab confirmed	Epi Linked	Clinically Compatible	DEATHS	(70)	CASES WEEK 38			
Montserr ado	5, 440	5,354	145	1658	3, 551	3	61	5	69	1.3	2	3	50	Ongoin g
Nimba	1, 123	1095	37	187	871	0	1	3	4	0.4	1	1	-	Ongoin g
Margibi	827	803	34	136	633	0	0	1	1	0.1	0	0	-	Ended
Grand Bassa	962	924	40	212	672	1	0	6	7	0.9	0	0	-	Ongoin g
Lofa	353	284	32	66	186	0	0	0	0	0	0	0	-	Ended
Bong	603	578	22	21	535	0	1	2	3	0.5	0	0	-	Ongoin g
Marylan d	1089	1069	24	308	737	0	0	0	0	0	5	8	60	Ongoin g
Grand Gedeh	635	473	34	48	391	0	0	0	0	0	3	7	133	Ongoin g
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	990	961	22	106	833	0	0	2	2	0.2	3	0	-100	Ongoin g
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	12,986	12,315	504	2,927	8,884	5	68	22	95	7.8	14	19		

Public Health Response

I. Coordination

IMS meetings are being held for coordination and mobilization of resources in response counties

II. Epidemiological Surveillance

Contact tracing and line listing of cases ongoing in the affected communities in Grand Kru and Grand Gedeh Counties

III. Case management

Vitamin A administration also ongoing in the fourteen counties that are implementing the periodic intensification of routine immunization

IV. Immunization

Provide two periodic intensification of routine immunization in fourteen counties, and supported by WHO

V. Laboratory

- Specimens were collected from 4 counties in 4 districts. Bong-Panta, River Gee-Gbeapo, Nimba-Buu-Yao. & Grand Gedeh-Gbao.
- Five hundred four (504) cases have been confirmed the National Public Health Reference Laboratory from December 13, 2021 – to October 8, 2023.

VI. Risk Communication and Community Engagement

Free Health education on prevention ongoing in Grand Gedeh and Grand Kru Counties

VII. Challenges

- 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 (Grand Gedeh) County

Acute Flaccid Paralysis (AFP)

- One (1) case was reported from Grand Cape Mount County
- Cumulatively, forty (40) cases were reported
 - Ten (10) tested negative
 - Thirty (30) pending

Neonatal Tetanus

- One (1) case was reported from Montserrado County
- Cumulatively, forty-eight (48) cases including 6 deaths reported

Influenza-Like Illnesses

Coronavirus Disease (COVID-19)

- Zero suspected cases reported
- Cumulatively, 95 cases have been reported

Influenza

- For (10) suspected cases were reported from Montserrado County
- Specimens collected and pending testing
- Cumulatively, hundred ten (110) suspected cases reported
 - Proportion cases with sample collected (105/110) 95%
 - o Proportion of cases with sample tested (34/105) 32% and all negative

Viral Hemorrhagic Diseases

Lassa fever

- From Two (2 including one death) suspected cases were reported from Bong County
- Becimens were collected: 1 tested negative and 1 pending
- Free Cumulatively, one hundred and ninety-three (193) suspected cases reported
 - Proportion of suspected cases with a sample collected (177/193) 92%
 - Proportion of suspected cases with sample tested (176/177) 99% (confirmed 52, negative 124)

Current Outbreak

Lassa fever disease

- No new confirmed case was reported
- Cumulatively, ninety-six (96) laboratory-confirmed cases including 27 deaths reported (CFR=28%)

Table 5: Summary of Lassa fever Outbreak, Liberia, January 6, 2022 - October 8, 2023

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 countdow n	Outbreak Status
Montserra	Bushrod	13-Feb-23	15	2	0	1	50%	29	21	0	0	0	29	Completed	Over
do	Central Monrovia	3-Mar-23	28	1	0	1	100%	28	27	0	0	0	28	Completed	Over
	Suakoko	21-Apr-23	148	42	2	8	19%	423	177	6	4	26	334	Active	Ongoing
Bong	Sanoyea	19-Sep-23	2	2	0	1	50%	36	18	0	0	6	31	Completed	Over
Dong	Kokoya	3-Oct-23	1	1	0	0	0%	5	0	0	0	5	0	Active	Ongoing
	Jorquelleh	6-Jan-22	13	9	1	2	25%	107	69	3	3	0	107	Completed	Over
Grand	District 3A&B	9-Sep-22	86	32	0	9	28%	177	40	40	0	23	159	Active	Ongoing
Bassa	Buchanan	11-Aug-23	2	1	0	1	100%	4	2	0	0	4	0	Active	Ongoing
	Sanniquell ie-Mah	6-Feb-23	36	2	0	0	0%	43	35	8	0	0	43	Completed	Over
Nimba	Tappita	13-Mar-23	12	1	0	1	100%	36	17	4	0	0	36	Completed	Over
	Bain-Garr	1-Jun-23	10	3	0	3	100%	61	25	0	0	31	30	Active	Ongoing
Total			353	96	3	27	28%	1000	424	61	7	95	797		

Public Health Measures

• 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
- o 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 96 Lassa fever cases have been confirmed since this outbreak

III. Case management and IPC

o Cases isolated and managed at designated facilities

IV. Environmental and Vector Control

o 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
- Airing of jingles on Lassa fever prevention and control in Bong and Grand Bassa Counties

Yellow fever

- Zero suspected cases reported
- Cumulatively, eighty-seven (87) suspected cases were reported
 - Three (3) samples (3/86) 3% not transported (epi-week 5 from Grand Gedeh, River Gee, and Grand Kru Counties)
 - Proportion of suspected cases with samples collected (70/87) 80%
 - The proportion of samples tested is (55/70) 79%
 - The proportion of samples pending testing is (15/70) 21%

Dengue Fever

Zero cases were reported

Ebola Virus Disease

Zero cases were reported

Diarrheal Diseases

Acute Bloody Diarrhea (Suspected Shigellosis)

- Fifteen (15) cases were reported: Bomi (4), Sinoe (2), Lofa (2), Grand Kru (2), Montserrado (1), Gbarpolu (1), Nimba (1), Bong (1), and Grand Cape Mount (1) Counties
- One (1) specimen was collected and pending testing
- Cumulatively, six hundred twenty-six (626) cases were reported
 - o Two hundred thirty-six (236) specimens were collected
 - o One hundred fifty-eight (158) specimens were received by NPHRL
 - 121 tested negative
 - 9 specimens pending testing by NPHRL
 - 28 specimens rejected by NPHRL
 - 78 specimens not received by NPHRL

Severe Acute Watery Diarrhea (Suspected Cholera)

- Ten (10) suspected cases were reported: Lofa (3), Sinoe (1), Nimba (1), Bomi (1), Maryland (1), Margibi (1), Grand Kru (1), and Grand Gedeh (1) Counties
- Three (3) specimens were collected and pending testing
- Cumulatively, seven hundred sixty-six (766) cases reported
 - \circ $\;$ Two hundred fifty-two (252) specimens were collected $\;$
 - Ninety-seven (97) specimens were received by NPHRL

- 76 tested negative
- 3 pending testing by NPHRL
- 18 specimens rejected by NPHRL
- 2 pending arrival at NPHRL
- o 153 specimens were not received by NPHRL

Other Reportable Diseases

0

Animal bite (Human Exposure to Rabies)

Eighty-eight (88) animal bites were reported

Table 6: Distribution of Animal Bite Cases and PEP Administration per County, Liberia, Epi week 40, 2023

Counties	Cases	Person receiving PEP	PEP doses administered	Cumulative cases (Wk 1-40)	Cumulative PEP administered (Wk 1-40)
Bomi	2	0	0	59	33
Bong	3	1	1	173	73
Gbarpolu	0	0	0	28	1
Grand Bassa	9	6	1	237	27
Grand Cape Mount	0	0	0	62	36
Grand Gedeh	1	0	0	91	13
Grand Kru	2	0	0	220	15
Lofa	9	5	1	201	80
Margibi	2	1	1	164	69
Maryland	4	0	0	161	57
Montserrado	39	17	17	825	212
Nimba	14	0	0	471	144
Rivercess	1	1	1	98	57
River Gee	0	0	0	45	0
Sinoe	2	0	0	114	6
Total	88	31	22	2,949	823

Public Health Actions

- Ongoing monitoring and follow-up of cases
- Provide a state of the second state of the sec

Meningitis

- One (1) suspected case reported from River Gee County
- Specimen was collected and pending testing
- Cumulatively, thirty-three (33) suspected cases reported
 - Proportion of suspected cases with samples collected (27/33) 82%
 - Proportion of sample tested (22/27) 81%
 - o 17 negative and 4 positive (Streptococcal-3 & Hemophilus Influenza)

<u>Mpox</u>

- Zero suspected cases reported
- Cumulatively, one hundred-twenty (120) suspected cases reported
 - Seven (7) confirmed

Unexplained cluster of deaths

Zero cases reported

Events of Public Health Importance

Maternal Mortality

- Four (4) deaths were reported from Montserrado (3), and Rivercess (1) Counties
- Reported cause: Sepsis (2), Eclampsia (1), and Post- Partum Hemorrhage (1)
- Reporting Site:
 - Health Facility (4/4) 100%
- ☞ Cumulatively, two hundred fifty (250) deaths reported
 - Proportion of death reviewed (68/250) 27%
 - Proportion of community death (31/250)12%

Neonatal Mortality

- From Montserrado (6), Margibi (2), and Sinoe (1) Counties
- Reported causes: Birth asphyxia (6), Neonatal sepsis (1), Prematurity (1), and Neonatal Tetanus (1)
- Reporting site:
 - Health facility: 9/4 (100%)
- Cumulatively, six hundred twenty-two (622) deaths reported

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

- Fifty-three (53) cases were reported: Sinoe (28), Grand Cape Mount (10), Grand Bassa (3), Grand Gedeh (3), Montserrado (2), Bomi (2), Lofa (2), Rivercess (1), Maryland (1), and Nimba (1) Counties
- All reported cases were classified as non-serious
- Related vaccine:
 - o Penta (21/53) 40%
 - Tetanus (11/53) 20%
 - Others (21/53) 40%
- Cumulatively, six hundred sixty-nine (669) events were reported and COVID-19 accounted for (201/669) 30%

Neglected Tropical Diseases

<u>YAWS</u>

- Zero cases were reported
- Cumulatively, two hundred forty-one (241) cases have been reported

Buruli Ulcer

- Zero cases were reported
- Cumulatively, one hundred seventy-one (171) cases have been reported

Border Surveillance Update

A total of 4,674 travelers were recorded for the week with incoming travelers accounting for 53% (2,458/4,674) **Table 7: Border activity at the PoE for incoming and outgoing travelers, Liberia, Epi week 40, 2023**

								Travelers Vaccinate			
					Total	Yellow		d against YF &	Alerts		Evidence of COVID-19
Type of Ports	Point of Entry	Weekly total	Arrival	Departure	traverlers with YB	Book Damage	Card Replaced	lssued book	detected/ Verified	COVID-19 Reactive	vaccination card/certificate
	James S. Paynes	125	61	64	0	0	0	0	0	0	5
Airport	Robert Int'l Airport	3571	1913	1658	3322	124	119	6	0	0	3338
	Freeport of Monrovia	244	122	122	122	0	0	0	0	0	122
	Buchanan Port	0	0	0	0	0	0	0	0	0	0
	Bo Water Side	482	226	256	470	0	12	0	0	0	400
Land Crossing	Ganta	78	32	46	54	0	0	0	0	0	35
Land Crossing	Yekepa	104	62	42	49	0	0	0	0	0	59
	Loguatuo	70	42	28	50	0	0	0	0	0	14
Total		4,674	2,458	2,216	4,067	124	131	6	0	0	3,973

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

Public Health Measures

National level

- For Continue to distribute surveillance weekly ledgers and triplicate Lab alert and submission forms to the counties
- Distribution of 10 motorcycles to nine (9) 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

• Partner coordination and resource mapping

Surveillance

- o 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																				
Summary	y of Immediately Reportable I	Dise	ease	es, C	ond	itio	ns, a	and	Eve	nts	by (Cour	nty	-		-				
			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
	ted Health District		4	9	5	8	5	6	5	6	4	6	7	11	6	6	10	98		
	n District Reported		4	9	5	8	5	6	5	6	4	6	7	11	6	6	10	98		
Viral Hemorrhagic Fé Vaccine Preventable Diseas	Acute Flaccid Paralysis (Suspected Polio)	A D A	0 0 1	0 0 0	0 0 0	0 0 0	1 0 0	0 0 8	0 0 0	0 0 4	0 0 0	0 0 11	0 0 3	0 0 1	0 0 0	0 0 2	0 0 2	1 0 32	40 0 4,539	0 0 35
ental	Measles	D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	2
e Prev	Neonatal Tetanus	A D	0	0	0	0	0	0	0	0	0	0	1 0	0	0	0	0	1 0	48 6	0
Vaccine	Yellow fever	A D	0	0 0	0	0	0	0	0	0 0	0	0 0	0	0	0	0 0	0	0	86 0	0
hagic Fe	Dengue fever	A D	0	0 0	0	0 0	0 0	0 0	0	0 0	0 0	0 0	0 0	0 0	0	0 0	0	0 0	2 0	0 0
Hemorr	Ebola Virus Disease	A D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Viral	Lassa fever	A D	0	1 1	0	0	0	0	0	0	0	0	0	0	0	0	0	1 1	158 35	36 16
nza-Lik	COVID-19	A D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11 0	0
a Influe	Influenza Like Illnesses	A D	0	0	0	0	0	0	0	0	0	0	10 0	0	0	0	0	10 0	110 0	0
eal Dise	Acute Bloody Diarrhoea (Shigellosis)	A D	4 0	1 0	1 0	0	1 0	0	2 0	2 0	0	0	1 0	1 0	0	0	2 0	15 0	626 0	0
Public Health Ir Diarrheal Dised Influenza-Like	Severe Acute Watery Diarrhoea (Cholera)	A D	1 0	0	0	0	0	1 0	1 0	3 0	1 0	1 0	0	1 0	0	0	1 0	10 0	766 0	0
alth Ir	Maternal Mortality	D	0	0	0	0	0	0	0	0	0	0	3	0	1	0	0	4	250	
olic He	Neonatal Mortality	D	0	0	0	0	0	0	0	0	2	0	6	0	0	0	1	9	622	-
	AEFI	A D	0	0	0	3 0	10 0	3 0	5 0	2 0	0	1 0	2 0	0	1 0	0	28 0	55 0	669 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
es	Мрох	A D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120 0	7 0
Other Reportable Diseases	Tuberculosis	A D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
oortable	Human Exposure to Rabies (Suspected Huma	^	2 0	3 0	0	9 0	0	1 0	2	9 0	2 0	4	39 0	14 0	1 0	0	2 0	88 0	2,949 0	0
her Rep	Meningitis	A D	0	0	0	0	0	0	0	0	0	0	0	0	0	1 0	0	1	33 0	0
ð	Unexplained Cluster of deaths	A D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 1	0
ted Tr	Buruli Ulcer	A D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	119 0	0
Neglected Tr	Yaws	A D	0	0 0	0	0	0	0	0	0 0	0	0	0	0	0	0 0	0	0	241 0	4 0
	то	TAL	8	6	1	12	0	13	0	20	0	17	0	17	0	3	36	228	11439	63

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
- Imm 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

Ralph W. Jetoh, MD, MPH Director Infectious Disease and Epidemiology Division National Public Health Institute of Liberia Republic of Liberia Email: ralphica2000@gmail.com Phone: +231 886526388/777372655 Website: www.nphil.gov.lr

National Public Health Institute of Liberia (NPHIL)

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Ministry of Health WHO Liberia Office US CDC Liberia Office

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.