

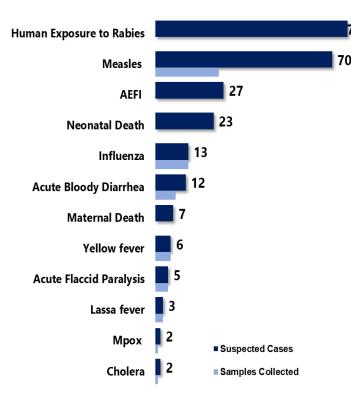
# **Liberia IDSR Epidemiology Bulletin**

Epi-week 12 (March 18-24, 2024)

Country Population: 5,104,413 | Volume 20 Issue 12 | March 18-24, 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 246 events of public health importance including 30 deaths reported
- Completeness and timeliness of health facility reports were both 99%
- Ongoing Lassa fever outbreak in 1
   County
- Ongoing Measles outbreak in 5 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 12, 2024

County	Expected Reports From HF*	Reports Received	Received on Time	Completeness (%)	Timeliness (%)
Bomi	29	29	29	100	100
Bong	66	64	64	97	97
Gbarpolu Grand Bassa Grand Cape Mount	18 38 36	18 38 36	18 38 36	100 100 100	100 100 100
Grand Gedeh	25	25	25	100	100
Grand Kru	25	25	25	100	100
Lofa	60	60	60	100	100
Margibi	62	62	62	100	100
Maryland	27	27	27	100	100
Montserrado	391	385	384	98	98
Nimba	102	102	102	100	100
Rivercess	21	21	21	100	100
River Gee	21	21	21	100	100
Sinoe	41	41	41	100	100
Liberia	962	954	953	99	99

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

Legend: ≥80 <80

954 (99%)
Health
facilities
reported
IDSR data

97(100%)
Health
districts
reported
IDSR data

953(100%)

Health
facilities
reported
timely IDSR
data

### **Vaccine-Preventable Diseases**

### Measles

- Seventy (70) suspected cases were reported (see table below)
  - o Twenty-five (25) specimens were collected: 3 tested negative and 22 pending testing
  - Proportion of suspected cases that were vaccinated (49/70) 70%
- Cumulatively, five hundred thirty-five (535) cases reported
  - Proportion of suspected cases with sample collected (236/535) 44%
  - o Proportion of suspected cases with sample tested (174/236) 74% (negative 113, confirmed 61)
  - Proportion of negative Measles cases tested for Rubella (106/113) 94% (negative 93, confirmed 13, pending testing 7)

Table 2: Distribution and Vaccination Status of Measles Cases, Liberia, Epi-week 12, 2024

			Nur	mber of Dose	es Received
			One	Two	<b>Doses Not</b>
County	# of cases	Vaccinated	Dose	Doses	Indicated
Bomi	4	3	2	1	0
Bong	3	3	3	0	0
Gbarpolu	1	1	1	0	0
Grand Bassa	1	1	0	1	0
Grand Cape Mount	3	2	2	0	0
Grand Gedeh	9	5	4	1	0
Grand Kru	11	6	3	3	0
Lofa	2	2	0	2	0
Maryland	6	3	3	0	0
Montserrado	5	3	3	0	0
Nimba	18	14	10	0	4
River Gee	6	5	0	0	5
Sinoe	1	1	1	0	0
Total	70	49	32	8	9

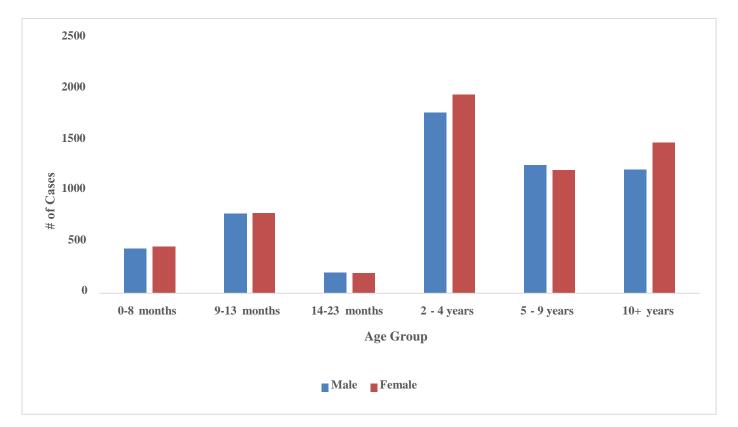


Figure 2: Distribution of Measles Cases by Age Group and Sex, Liberia Epi Week 12, 2024

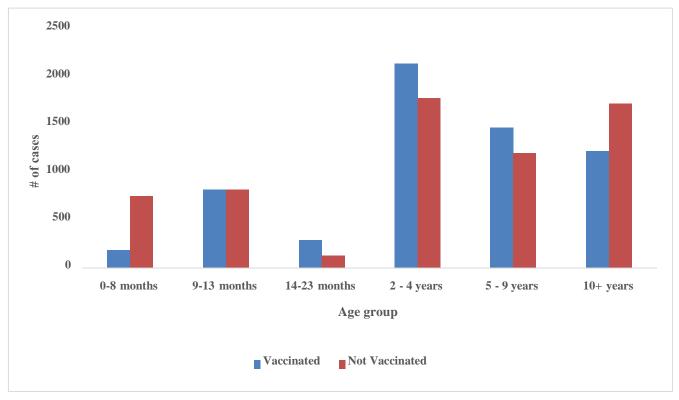


Figure 3: Vaccination Status of Suspected Measles Cases by Age Group, Liberia, Epi-Week 12, 2024

# Outbreak Section

Table 3: Status of Confirmed (lab, clinically confirmed and epi-linked) Measles Cases by County, Liberia, December 13, 2021- March 24, 2024

COUNTY	CUMULA TIVE SUSPECT ED CASES	CUMULATI VE CONFIRME D CASES	CLASSIFIC <i>A</i> CONFIRME				SIFICATI IRMED I		CUMUL ATIVE DEATHS	CFR (%)	# CONFIR MED CASES WEEK	# CONFI RM ED CASES WEEK 12	Outbrea k Status
			Lab confirm ed	Epi Linke d	Clinically Compati ble	Lab confirm ed	Epi Linke d	Clinically Compati ble			11		
Montserrado	5, 456	5,373	148	1658	3, 567	3	61	5	69	1.3	0	0	Ended
Nimba	1, 181	1,156	50	227	879	0	1	3	4	0.4	2	6	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	1242	1223	30	308	885	0	0	0	0	0	15	6	Ongoing
Grand Gedeh	707	558	64	99	395	0	0	0	0	0	2	5	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	1038	1,007	47	129	831	0	0	2	2	0.2	9	7	Ongoing
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	126	93	25	20	50	0	0	0	0	0	2	5	Ongoing
Total	13,356	12,696	641	3,061	8,994	5	68	22	95	7.8	30	29	

Table 4: Status of Confirmed Measles Cases by County, Liberia, December 13, 2021 - March 24, 2024

County	<b>Total Cases</b>	Active	Recovery	Deaths	# of Districts
Montserrado	5,373	0	5,304	69	0/7
Nimba	1,156	6	1,146	4	1/6
Grand Bassa	924	0	917	7	0/8
Margibi	803	0	802	1	0/4
Bong	578	0	575	3	0/9
Maryland	1,223	6	1217	0	3/6
Lofa	284	0	284	0	0/6
Grand Kru	1,007	7	966	2	2/5
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	558	5	553	0	2/6
River Gee	101	5	96	0	1/6
Sinoe	231	0	231	0	0/10
Total	12,702	29	12, 578	95	9/98

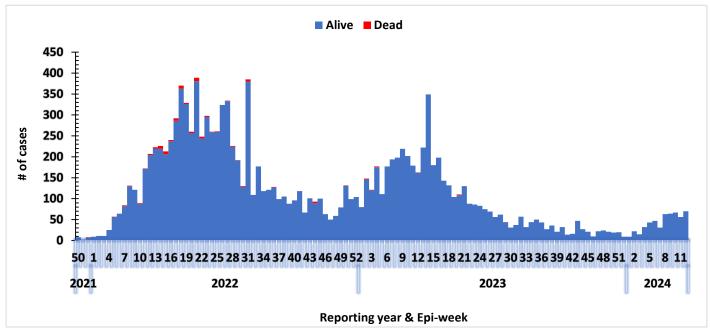


Figure 4: Epi Curve of Measles Cases Liberia, Epi week 50, 2021 - Epi week 12, 2024

### **PUBLIC HEALTH RESPONSE**

### **I. Coordination**

o IMS meetings are being held for coordination and mobilization of resources in affected Counties.

### II. Epidemiological Surveillance

 Active case search and contact tracing ongoing in affected Counties/Districts; Maryland (Pleebo, Karluway-II, and Harper), River Gee (Sarbo), Nimba (Saclepea-Mah), Grand Kru (Buah and Barclayville) and Grand Gedeh (Konobo, and Tchien).

### III. Case management

Cases are being treated with Vitamin A, calamine lotion, and amoxicillin tablet in affected counties

#### IV. Immunization

o Routine immunization intensified in affected districts (Pleebo, Harper, Karluway-II, Tchien, Konobo, Buah, Barclayville, Saclepea-Mah, and Putu) in Maryland, Grand Gedeh, Grand Kru, Nimba, and River Gee Counties.

### V. Laboratory

Six hundred, forty-one (641) cases have been confirmed by the NPHRL from December, 2021 – March 24, 2024.

### VI. Risk Communication and Community Engagement

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

### **Challenges**

- Limited supply of essential medications and medical supplies for case management
- o Lack of needed logistical resources to adequately respond

### Acute Flaccid Paralysis (AFP)

- Five (5) cases were reported from Margibi (2), Lofa (2), and Nimba (1) Counties
- All specimens were collected and pending shipment
- Cumulatively, nineteen (19) cases have been reported (15 shipped)
  - Eleven (11) tested negative, 7 pending testing
  - One ongoing 60 days follow-up

#### **Neonatal Tetanus**

- Zero (0) cases were reported
- Cumulatively, six (6) cases have been reported including three (3) deaths

### Influenza-Like Illnesses

### Coronavirus Disease (COVID-19)

- Zero suspected cases were reported
- Cumulatively, two (2) cases have been reported

### Influenza

- Thirteen (13) suspected cases were reported from Montserrado County
  - o All specimens were collected and tested negative
- Cumulatively, fifty-three (53) suspected cases reported
  - o Fifty-three (53) specimens were collected: 48 tested negative and 5 specimens were discarded

### Viral Hemorrhagic Fever

#### Lassa fever

- Three (3) suspected cases were reported from Bong County
  - All specimens were collected: 1 tested positive and 2 pending testing
- Cumulatively, fifty-two (52) suspected cases have been reported
  - o Proportion of suspected cases with sample collected (52/52) 100%
  - Proportion of suspected cases with sample tested (49/52) 94%
    - Negative 46, confirmed 3, pending testing 2 and 1 sample under review

#### **Outbreak**

- One (1) new confirmed case reported from Bong County
- Five (5) contacts line listed and under 21 days follow up
- Sixteen (16) contacts completed 21 days follow up
- Cumulative Case Fatality Rate (CFR): 29% (41/141)
- One county (Bong) currently in outbreak

Table 5: Summary of Lassa fever Outbreak, Liberia, January 6, 2022- March 24, 2024

County	Outbreak Districts	Outbreak Start Date	Total suspected	Total confirmed	HCWs confirmed		Deaths in HCWs	CFR %	Total Contacts	# HCW contacts	Contacts_ became cases	Contacts under follow up	Completed	Days in countdown	Outbreak Status
	Bushrod	13-Feb-23	17	1	0	0	0	0%	29	21	0	0	29	Completed	Over
Montserrado	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
	Suakoko	21-Apr-24	192	54	18	13	2	24%	496	114	6	0	417	Completed	Over
Bong	Suakoko	23-Feb-24	7	2	0			0%	21	10	0	5	16	Active	Ongoing
Dong	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
Granu Dassa	Buchanan	11-Aug-23	2	1	0	1	0	100%	4	2	0	0	4	Completed Completed Completed Completed Completed Active Completed	Over
	Saclepea-Mah	21-Nov-23	4	2	0	1	0	50%	5	0	0	0	5	Completed Completed Completed Active Completed	Over
Nimbo	Sanniquellie-Mah	6-Feb-23	42	15	0	6	0	40%	43	35	8	0	43	Completed	Over
Nimba	Tappita	20-Nov-23	12	5	0	3	0	60%	88	39	4	0	77	Completed	Over
	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			441	141	21	41	3	29%	1136	399	61	5	1041		

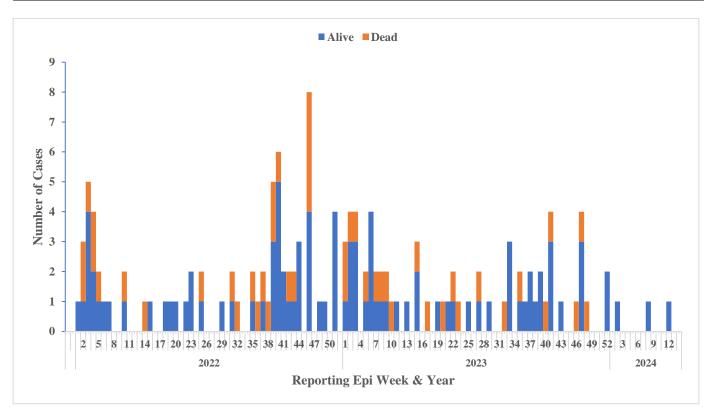


Figure 5: Epi-curve of Lassa fever cases, Liberia, January 6, 2022- March 24, 2024

### **Public Health Measures**

### **Coordination**

The National Public Health Institute of Liberia (NPHIL) and the Ministry of Health (MOH) are providing technical support to the surveillance team with support from partners.

#### **Surveillance**

- o Active case search ongoing in affected communities and districts
- o Weekly SitReps developed and disseminated to stakeholders

### Laboratory

- The National Public Health Reference Laboratory continues testing of Lassa fever samples
- A total of 141 Lassa fever cases have been confirmed since this outbreak

### Case management and IPC

- o Ribavirin supply in country are being distributed for treatment of Lf cases to affected counties
- o Ribavirin is being administered to the current confirmed case at Phebe hospital isolation

### **Challenges**

- o Limited of support for communication and transportation to enhance contact tracing and active case search
- o Limited stationeries in the EOC to produce case alert forms, contact tracing form and other tools for investigation

#### Yellow fever

- Six (6) suspected cases were reported from Grand Cape Mount (4), River Gee (1), and Bomi (1) Counties
  - Specimens were collected 1 negative and 5 pending testing
- Cumulatively, twenty-two (22) cases have been reported
  - o Proportion of suspected cases with samples collected (20/22) however, 2 samples were discarded
  - o Proportion of suspected cases with samples tested (13/20) 65% (negative 13)
  - Seven samples pending testing

#### Dengue

- Zero cases were reported
- Cumulatively, three (3) suspected cases reported,
- 2 specimens collected and pending testing

#### **Ebola Virus Disease**

Zero cases have been reported

### Diarrheal Diseases

#### Acute Bloody Diarrhea (Suspected Shigellosis)

- Twelve (12) cases were reported from Rivercess (3), Sinoe (2), Maryland (2), Grand Bassa (1), Gbarpolu (1), Lofa (1), Bomi (1), and Margibi (1) Counties
  - o Eight (8) specimens were collected: 1 tested negative and 7 pending testing
- Cumulatively, eighty-three (83) cases have been reported
  - 48 specimens collected, 35 reached the Lab
  - 22 tested negative, 3 rejected, 10 pending testing

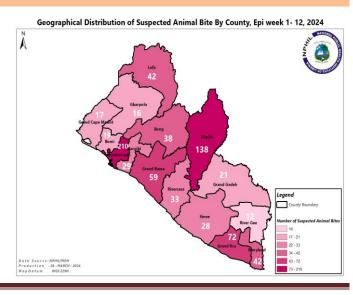
#### Severe Acute Watery Diarrhea (Suspected Cholera)

- Two (2) cases were reported from Lofa, and Gbarpolu Counties
  - o One (1) specimen was collected and tested negative
- Cumulatively, seventy-two (72) cases have been reported
  - 43 specimens collected, 29 reached the Lab
  - o 18 tested negative, 3 rejected and 8 pending testing

### Other Reportable Diseases

### Animal bite (Human Exposure to Rabies)

- Seventy-sixty (76) animal bite cases were reported from Montserrado (29), Nimba (8), Grand Kru (7), Grand Bassa (6), Bong (5), Lofa (4), Grand Gedeh (3), Sinoe (3), Margibi (3), Bomi (2), River Gee (2), Rivercess (2), and Maryland (2) Counties
- All bites were attributed to dog
- Proportion of cases investigated: 47/76 (62%)
- Proportion of dogs vaccinated: 0/47 (0%)
- Cumulatively, 779 cases have been reported



#### **Public Health Actions**

- All cases were clinically managed and sent home
- PEP Administered to 5 persons (7%): Lofa, Margibi and Bong Counties
- Thirty-three (33) dogs restrained and underwent 10-14 days' follow-up
  - All cases were investigated only by the human health surveillance team

#### **Tuberculosis**

- Zero cases were reported
- Cumulatively, twenty-five (25) drug susceptible Tuberculosis cases were reported
  - o Twenty (20) cases diagnosed and placed on treatment
  - o Five (5) cases diagnosed and not placed on treatment
  - Zero Multi-Drug Resistance/Rifampicin Resistance TB

### **Meningitis**

- Zero (0) cases were reported
- Cumulatively, eight (8) suspected cases have been reported
  - o Proportion of specimen collected 8/8 100%
  - o Proportion of specimen tested (6/8) 75% (5 negative, 1 positive)

#### Mpox

- Two (2) suspected cases were reported from Grand Kru County
  - One specimen collected and tested negative
- Cumulatively, twenty-five (25) suspected cases have been reported; 4 tested positive, 14 negative, 2 discarded and 1 rejected

### Unexplained cluster of deaths

Zero cases reported

### **Unexplained cluster of Health Events**

Zero cases reported

### **Events of Public Health Importance**

### **Maternal Mortality**

- Seven (7) deaths were reported from Montserrado (3), Margibi (2), Nimba (1), and Grand Bassa (1) Counties
- Reported causes: PPH (4), Sepsis (2), and Eclampsia (1)
- Reporting sites
  - Health facility (6/7) 86%
  - o Community (1/7) 14%
- Cumulatively, sixty-three (63) deaths reported
  - o Proportion of deaths reviewed (29/63) 46%.

#### **Neonatal Mortality**

- Twenty- three (23) deaths were reported from Montserrado (14), River Gee (2), Maryland (2), Grand Kru (2), Grand Gedeh (1), Bong (1), and Sinoe (1) Counties
- Reported causes: Birth asphyxia (12), Neonatal sepsis (10), and Neonatal Jaundice (1)
  - Reported sites:
    - Health facility (22/23) 96%
    - Community (1/23) 4%
- Cumulatively, one hundred fifty-seven (157) deaths reported
  - o Proportion of deaths reviewed (55/157) 35%

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

- Twenty-seven (27) cases were reported from Sinoe (12), Montserrado (8), Grand Gedeh (2), Lofa (2), River Gee (1), Grand Bassa (1), and Gbarpolu (1) Counties
- All reported cases were classified as non-serious
- Related vaccine:
  - o Penta (14/27) 52%
  - Measles (8/27) 30%
  - o Others (5/27) 19%
- r Cumulatively, two hundred ninety- nine (299) events were reported and all classified as non-serious.

### **Neglected Tropical Diseases**

### **YAWS**

Zero cases were reported

#### **Buruli Ulcer**

Zero cases were reported

### **Border Surveillance Update**

A total of 5955 travelers were recorded for the week with incoming travelers accounting for 54% (3,191/5,955)

Table 6: Border activity at the PoE for incoming and outgoing travelers. Liberia. Epi week 12

Table 6. Bui	der activity at	tile Po	E IOI III	coming a	ilia oatgoi	ing travelers	, Liberia,	Travelers	. 14	Evidence of
					Total			Vaccinated	Alerts	COVID-19
		Weekly			traverlers	Yellow	Card	against YF	detected/	vaccination
Type of Ports	Point of Entry	total	Arrival	Departure	with YB	<b>Book Damage</b>	Replaced	& Issued	Verified	card/certificate
	James S. Paynes	50	25	25	2	0	0	0	0	10
Airport	Robert Int'l Airport	5063	2733	2330	5073	0	57	15	0	4996
	Freeport of Monrovia	84	42	42	84	0	0	0	0	84
Seaport	Buchanan Port	38	19	19	38	0	0	0	0	38
	Bo Water Side	472	250	222	454	0	4	14	0	216
Ground	Ganta	93	44	49	43	0	0	9	0	25
Crossing	Yekepa	44	26	18	12	0	0	0	0	17
Type of Ports  Airport  Seaport  Ground Crossing	Loguatuo	111	52	59	79	0	0	0	0	34
Total	•	5,955	3,191	2,764	5,785	0	61	38	0	5,420

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

Appendi	Appendix																			
Summar	y of Immediately Reportable D	isea	ases	s, Co	ondi	itior	ıs, a	nd I	Ever	nts b	у С	oun	ty							
		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		4	9	5	8	5	6	5	6	4	6	7	11	6	6	10	98			
No. of Health	n District Reported		4	9	5	8	5	6	5	6	4	6	7	11	6	6	10	98		
e Disea	Acute Flaccid Paralysis (Suspected Polio)	A D	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	5 0	14 0	0
entabl	Measles	A D	0	0	0	0	0	9	11 0	0	6	5 0	18 0	18 0	0	6	0	88 0	461 0	50 0
ne Prev	Neonatal Tetanus	A D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
Vaccir	Yellow fever	A D	1 0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	6 0	16 0	0
hagic F	Dengue fever	A D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
lemorr	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	0	0	0	0	3	42 7	2
za-Lik	COVID-19	A D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
Influen	Influenza Like Illnesses	A D	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	13	40	0
l Dise	Acute Bloody Diarrhoea (Shigellosis)	A D	1 0	0	1	1 0	0	0	0	1 0	1	2	0	0	3	0	2	12	88	0
Diarrheal Dise Influenza-Lik Viral Hemorrhagic f Vaccine Preventable Disea	Severe Acute Watery Diarrhoea (Cholera)	A D	0	0	1	0	0	0	0	1 0	0	0	0	0	0	0	0	2	80	0
_	Maternal Mortality	D	0	0	0	1	0	0	0	0	2	0	3	1	0	0	0	7	56	
blic He	Neonatal Mortality	D	0	1	0	0	0	1	0	0	0	2	14	0	0	2	1	21	132	
Events of Public Health	AEFI	A D	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	15 0	272 0	0
Events	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	2	0	0	0	0	0	0	0	0	2	23	2
Diseas	Tuberculosis	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0
Other Reportable Diseases	Human Exposure to Rabies (Suspected Human	A D	2	5	0	6	0	3	7	4 0	3	2	29	8 0	2	2	3	76 0	636	0
ıer Rep	Meningitis	A D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	1 0
₹	Unexplained Cluster of deaths	A D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ted Tr	Buruli Ulcer	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Neglected Tr	Yaws	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL		8	12	4	10	0	15	0	12	0	11	0	28	0	12	19	250	1907	7	

**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
  - o County required on or before 5:00 pm every Monday to the national
- 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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To prevent and control public health threats by promoting healthy outcomes and serving as a source of knowledge

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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.