

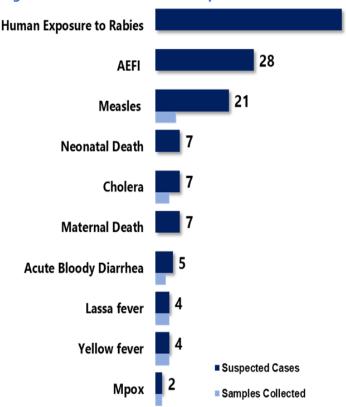
## **Liberia IDSR Epidemiology Bulletin**

Epi-week 49 (Dec 4-10, 2023)

Country Population: 5,104,413 | Volume 19 Issue 49 | Dec 4-10, 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 138 events of public health importance including 15 deaths reported
- ◆ Completeness and timeliness of health facility reports were both 97%
- ◆ Ongoing Lassa fever outbreak in 3 Counties
- ◆ Ongoing Measles outbreak in 3 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 49, 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	63	63	95	95
Maryland	28	25	25	89	89
Montserrado	418	393	390	94	93
Nimba	92	92	92	99	100
Rivercess	21	21	21	100	100
River Gee	20	20	20	100	100
Sinoe	41	41	41	100	100
Liberia	978	947	944	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

947(97%)

98(100%)
Health
districts
reported
IDSR data

944 (97%)

## Vaccine-Preventable Diseases

## Measles

- Twenty-one (21) suspected cases were reported from 8 counties
- Six (6) specimens were collected and pending testing
- Fourteen (14) persons were vaccinated

Table 2: Distribution of Measles cases per county and epi-classification, Liberia, Epi week 1-49, 2023

COUNTY		CUMULATIVE # CONFIRMED	CONF	SIFICAT IRMED	ON OF CASES	DEATHS	CFR	# CONFIRMED	# CONFIRMED	%
COUNTY	CASES	# CONFIRMED CASES	Lab	Epi Linked	Clinically Compatible	DEATHS	(%)	CASES WEEK 48	CASES WEEK 49	CHANGE
Bomi	80	68	2	13	53	0	0.0	0	0	0
Bong	210	210	3	6	201	1	0.5	0	0	0
Gbarpolu	43	42	0	0	42	0	0.0	0	1	0
<b>Grand Bassa</b>	183	180	0	0	180	0	0.0	1	4	300
Grand Cape Mount	77	69	1	2	66	0	0.0	0	0	0
<b>Grand Gedeh</b>	444	400	6	27	367	0	0.0	3	3	0
<b>Grand Kru</b>	747	741	10	72	659	2	0.3	1	0	-100
Lofa	142	134	0	0	134	0	0.0	1	0	-100
Margibi	201	199	1	8	190	0	0.0	0	0	0
Maryland	781	779	0	0	779	0	0.0	9	6	-33
Montserrado	1108	1100	4	53	1043	2	0.2	0	2	0
Nimba	378	368	2	33	333	3	0.8	0	1	0
River Gee	147	121	1	0	120	0	0.0	1	1	0
Rivercess	37	32	1	0	31	0	0.0	0	0	0
Sinoe	163	143	6	11	126	0	0.0	8	3	-63

Table 3: Vaccination Status of Measles Cases, Liberia, Epi-week 49, 2023

		N	ses Received	
County	Vaccinated	One Dose	Two Doses	<b>Doses Not Indicated</b>
Bomi	0	0	0	0
Bong	0	0	0	0
Gbarpolu	1	0	0	1
Grand Bassa	3	1	1	1
Grand Cape Mount	0	0	0	0
Grand Gedeh	2	2	0	0
Grand Kru	0	0	0	0
Lofa	0	0	0	0
Margibi	0	0	0	0
Maryland	2	1	0	1
Montserrado	1	1	0	0
Nimba	1	0	0	1
River Gee	1	1	0	0
Rivercess	0	0	0	0
Sinoe	3	3	0	0
National	14	9	1	4

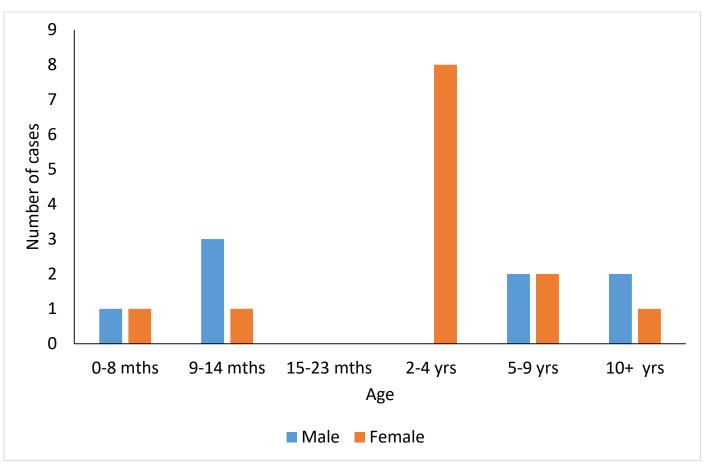


Figure 2: Distribution of Measles Cases by Age Group and Sex, Liberia Epi Week 49, 2023

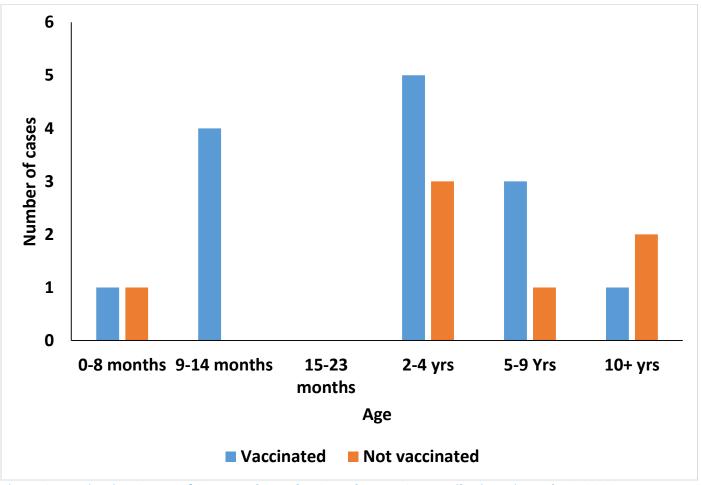


Figure 3: Vaccination Status of Suspected Measles Cases by Age Group, Liberia, Epi-Week 49, 2023

Table 4: Status of Confirmed Measles Cases by County, Liberia, December 13, 2021 – December 10, 2023

County	<b>Total Cases</b>	Active	Recovery	Deaths	# of Districts
Montserrado	5,373	2	5,302	69	3/7
Nimba	1,110	0	1,106	4	3/6
Grand Bassa	924	0	917	7	0/8
Margibi	803	0	802	1	0/4
Bong	578	0	575	3	0/9
Maryland	1108	3	1105	0	2/6
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	508	0	508	0	0/6
River Gee	79	0	79	0	0/6
Sinoe	231	0	231	0	0/10
Total	12,427	5	12, 327	95	8/98

Table 5: Cumulative Distribution of Measles Cases and Deaths, December 13, 2021 – December 10, 2023

COUNTY	CUMULA TIVE SUSPECT ED CASES	CUMULATI VE CONFIRME D CASES	CON	LASSIFICATION OF CONFIRMED CASES		CLASSIFI OF CONF DEAT	TRMED THS	CUMUL ATIVE DEATHS		CFR (%)	# CONFIR MED CASES WEEK 48	# CONFIRM ED CASES WEEK 49	% CHAG E	Outbrea k Status
			Lab confirm ed	Epi Linke d	Clinically Compati ble	Lab confirm ed	Epi Linke d	Clinically Compati ble						
Montserr ado	5, 456	5,373	145	1658	3, 570	3	61	5	69	1.3	0	2	_	Ongoing
Nimba	1, 137	1110	37	187	886	0	1	3	4	0.4	0	0	_	Ongoing
Margibi	827	803	34	136	633	0	0	1	1	0.1	0	0	_	Ended
Grand	962	924	40	212	672	1	0	6	7	0.9	0	0	_	Ended
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	_	Ended
Marylan d	1128	1108	24	308	776	0	0	0	0	0	5	3	-0.4	Ongoing
Grand Gedeh	652	508	34	48	426	0	0	0	0	0	0	0	-	Ended
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 M	215	187	17	18	152	0	2	1	3	1.6	0	0	-	Ended
Grand Kru	994	965	22	106	837	0	0	2	2	0.2	0	0	-	Ended
Gbarpo lu	67	46	4	2	40	0	0	0	0	0	0	0	-	Ended
		84	23	54	7	0	1	0	1	1.1	0	0	-	Ended
River ee	103	79	0	0	79	0	0	0	0	0	0	0	-	Ended
Total	13,077	12,427	504	2,927	8,997	5	68	22	95	7.8	5	5		

## Public Health Response

#### I. Coordination

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

## II. Epidemiological Surveillance

Active case search and contact tracing ongoing in Grand Kru County

## III. Case management

Case management ongoing in affected counties

#### **IV. Immunization**

- 67% of the cases reported were vaccinated
- Routine immunization ongoing in all15 counties

## V. Laboratory

Five hundred seven (507) cases have been confirmed by the National Public Health Reference Laboratory from December 13, 2021 – November 15, 2023

## **VI. Risk Communication and Community Engagement**

Community engagement health education ongoing

## VII. Challenges

Limited support for response in affected counties

## Acute Flaccid Paralysis (AFP)

- Zero cases were reported
- Cumulatively, sixty-six (66) cases were reported
  - o Thirty-six (36) tested negative
  - o Thirty (30) pending

## **Neonatal Tetanus**

- Zero cases were reported
- Cumulatively, fifty-two (52) cases including 7 deaths reported

## Influenza-Like Illnesses

#### Coronavirus Disease (COVID-19)

- Zero suspected cases were reported
- Cumulatively, Ninety-five (95) cases have been reported

### Influenza

- Six (6) suspected cases were reported from Montserrado
- Six specimens were collected and tested negative
- Cumulatively, one hundred sixty (160) suspected cases reported
  - o Proportion cases with sample collected (155/160) 97%
  - o Proportion of cases with sample tested (64/149) 43% and all negative

## Viral Hemorrhagic Diseases

#### Lassa fever

- Four (4) suspected cases were reported from Bong (2), Nimba (1), and Montserrado (1 dead) Counties
- Specimens were collected;3 tested negative and 1 pending
- Cumulatively, two hundred twenty-eight (228) suspected cases reported

- o Proportion of suspected cases with a sample collected (212/228) 93%
- o Proportion of suspected cases with sample tested (209/212) 98% (confirmed 63, negative 146)
- Death in Confirmed cases 20 (CFR=31.7%)

## **Current Outbreak**

- No new confirmed case reported
- A total of 175 contacts under follow up
- Cumulative Case Fatality Rate (CFR): 30% (32/107)
- Three counties currently in outbreak (Bong, Nimba, Montserrado)

Table 6: Summary of Lassa fever Outbreak, Liberia, January 6, 2022- December 14, 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 countdown	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	29	1	0	1	100%	28	27	0	0	0	28	Completed	Over
	Suakoko	21-Apr-23	155	45	2	9	20%	473	191	6	18	44	366	Active	Ongoing
Bong	Sanoyea	19-Sep-23	2	2	0	1	50%	36	18	0	0	0	37	Active	Ongoing
Dong	Kokoya	3-Oct-23	1	1	0	0	0%	5	0	0	0	5	0	Active	Ongoing
	Jorquelleh	15-Oct-23	12	13	1	3	23%	121	86	3	3	41	128	Active	Ongoing
Grand	District 3A&B	21-Aug-23	86	32	0	9	28%	177	40	40	0	0	159	Completed	Over
Bassa	Buchanan	11-Aug-23	2	1	0	1	100%	4	2	0	0	0	0	Completed	Over
	Sanniquellie-Mah	6-Feb-23	42	2	0	0	0%	43	35	8	0	0	43	Completed	Over
Nimba	Tappita	20-Nov-23	14	3	0	3	100%	58	29	4	0	22	36	Active	Ongoing
	Yarwin Mehnsonnoh	5-Dec-23	1	1	0	1	100%	14		0	0	14	0	Active	Ongoing
	Bain-Garr	1-Jun-23	10	3	0	3	100%	61	25	0	0	0	31	Completed	Over
Montserra do		27-Nov-23	1	1	0	0	0%	49	0	0	0	49	0	Active	Ongoing
Total			370	107	3	32	30%	1098	474	61	21	175	857		

## **Public Health Measures**

The National Public Health Institute of Liberia (NPHIL) and the Ministry of Health (MOH) are Providing technical support to the surveillance (I. e. guidance on case investigation, contact tracing, sitrep development, etc.)

#### I. Surveillance:

- o 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
- o A total of 96 Lassa fever cases have been confirmed since this outbreak

## III. Case management and IPC

- Cases isolated and managed at designated facilities
- o Ribavirin supply in country are being distributed for treatment of Lf cases to affected counties

#### **Environmental and Vector Control**

o Clean-up campaigns and rodent control measures is ongoing Bong County

## **Risk Communication and Community Engagement**

Risk communication and community engagement ongoing in affected and surrounding communities

#### Yellow fever

- Four (4) suspected cases were reported from River Gee (1), Lofa (1), Grand Cape Mount (1), and Maryland (1) Counties
- Specimens were collected and pending testing
- Cumulatively one hundred nine (109) suspected cases were reported
  - Three (3) samples (3/91) 3% not transported (Epi week 5 from Grand Gedeh, River Gee, and Grand Kru Counties)

- o Proportion of suspected cases with samples collected (91/109) 83%
- o The proportion of samples tested is (71/91) 78%
- o The proportion of samples pending testing is (17/91) 19%

## Dengue Fever

- One (1) suspected case was reported from Maryland County
- Specimen was collected and pending testing
- Cumulatively, three (3) suspected cases were reported

## **Ebola Virus Disease**

Zero cases were reported

## **Diarrheal Diseases**

## Acute Bloody Diarrhea (Suspected Shigellosis)

- Five (5) cases were reported from Sinoe (3), Rivercess (1), and Nimba (1) Counties
- Three (3) specimens were collected and pending testing
- Cumulatively, seven hundred four (704) cases reported
  - o Two hundred seventy-five (275) specimens were collected
    - 161 tested negative
    - 3 Confirmed
    - 26 specimens rejected by NPHRL
    - 85 not tested

## Severe Acute Watery Diarrhea (Suspected Cholera)

- Seven (7) suspected cases were reported from River Gee (2), Sinoe (2), Nimba (1), Lofa (1), and Maryland (1) Counties
- Four (4) specimen was collected and pending testing
- Cumulatively, eight hundred seventy-seven (877) cases reported
  - o Two hundred ninety (290) specimens were collected
    - 116 tested negative
    - 12 specimens rejected by NPHRL
    - 162 not tested

## Other Reportable Diseases

## Animal bite (Human Exposure to Rabies)

Fifty-three (53) animal bites were reported

## Table 7: Distribution of Animal Bite Cases and PEP Administration per County, Liberia, Epi week 49, 2023

Counties	Cases	Person receiving PEP	PEP doses administered	Cumulative cases (Wk 1-49)	Cumulative PEP administered (Wk 1-49)
Bomi	0	0	0	65	33
Bong	3	0	0	214	90
Gbarpolu	1	0	0	35	1
Grand Bassa	7	0	0	278	30
Grand Cape Mount	2	0	0	73	42
Grand Gedeh	3	1	1	117	15
Grand Kru	2	0	0	267	15
Lofa	3	1	1	231	90
Margibi	2	1	1	198	83
Maryland	4	2	2	204	76
Montserrado	5	0	0	989	254
Nimba	11	2	2	611	164
Rivercess	5	1	1	132	64
River Gee	0	0	0	49	0
Sinoe	5	0	0	148	6
Total	53	8	8	3611	963

#### **Public Health Actions**

Ongoing monitoring and follow-up of cases

## **Meningitis**

- Zero suspected cases were reported
- Cumulatively, thirty-nine (39) suspected cases reported
  - o Proportion of suspected cases with samples collected (32/39) 82%
  - o Proportion of sample tested (28/32) 88%
  - o 24 negative and 4 positive (Streptococcal-3 & Hemophilus Influenza)

#### Mpox

- Two (2) suspected cases reported from River Gee County
- Two (2) specimens were collected and pending testing
- Cumulatively, one hundred fifty-eight (158) suspected cases reported
  - o Twenty-one (21) confirmed

## Unexplained cluster of deaths

Zero cases reported

## **Events of Public Health Importance**

## **Maternal Mortality**

- F Seven (7) deaths were reported from Montserrado (3), Nimba (3), and Grand Bassa (1) Counties
- Reported causes: PPH (3), Acute respiratory distressed (2), Obstructed labor (1), and Anemia (1)
- Reporting Site:
  - Health Facility (7) 100%
- Cumulatively, two hundred ninety- three (293) deaths reported
  - Proportion of death reviewed (74/293) 25%
  - o Proportion of community death (32/74) 43%

## **Neonatal Mortality**

- Seven (7) deaths were reported from Montserrado (5), and Margibi (2) Counties
- Reported causes: Birth Asphyxia (3), Prematurity (2), and Sepsis (2)
- Reporting site:
  - Health facility: (7) 100%
- Cumulatively, seven hundred twenty-eight (728) deaths reported

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

- Twenty-eight (28) cases were reported: Montserrado (7), Grand Cape Mount (6), Bomi (5), Sinoe (4), River Gee (3), Maryland (2), and Margibi (1) Counties
- All reported cases were classified as non-serious
- Related vaccine:
  - o Penta (9/28) 32%
  - Measles (7/28) 25%
  - Others (12/28) 43%
- Cumulatively, one thousand-eight (1008) events were reported and COVID-19 accounted for (242/1008) 24%

## **Neglected Tropical Diseases**

## **YAWS**

- Zero cases were reported
- Cumulatively, two hundred fifty-six (256) cases have been reported

#### 3Buruli Ulcer

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

## **Border Surveillance Update**

A total of 5606 travelers were recorded for the week with incoming travelers accounting for 52% (2912/5606)

Table 7: Border activity at the PoE for incoming and outgoing travelers, Liberia, Epi week 49, 2023

					Total	Yellow		Travelers			COVID-19 vaccination
Type of Ports	Point of Entry	Weekly total	Arrival	Departure	traverlers with YB	Book Damage	Card Replaced	Vaccinated against YF & Issued book	Alerts detected/ Verified	COVID-19 Reactive	card/certifica te
Airport	James S. Paynes	177	69	108	20	0	0	0	0	0	15
	Robert Int'l Airport 4225		2229	1996	4207	18	0	8	0	0	4183
Seaport	Freeport of Monrovia	240	120	120	240	0	0	0	0	0	240
	Buchanan Port	44	22	22	44	0	0	0	0	0	44
	Bo Water Side	650	315	335	626	4	0	20	0	0	605
Land Crossing	Ganta	120	67	53	79	10	31	7	0	0	0
	Yekepa	80	47	33	70	0	0	0	0	0	6
	Loguatuo	70	43	27	29	0	0	0	0	0	38
Total		5606	2,912	2,694	5,315	32	31	35	0	0	5,131

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
- Providing remote technical and operational support to counties
- Produced and disseminated situation reports (Lassa fever, Measles, and Mpox outbreaks)

## **County-level**

## **☞** Surveillance

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

## Case Management

- o 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
-	ed Health District		4	9	5	8	5	6	5	6	4	6	7	11	6	6	10	98		
	District Reported		4	9	5	8	5	6	5	6	4	6	7	11	6	6	10	98		
isea	Acute Flaccid Paralysis (Suspected Polio)	Α	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0
a D	·	D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 37
Itab	Measles	A D	0	0	0	0	0	0	0	0	0	6	0	0	0	0	3	21 0	4,741 8	2
ver		A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52	0
P.	Neonatal Tetanus	D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0
cine		Α	0	0	0	0	1	0	0	1	0	1	0	0	0	1	0	4	109	0
\ \ \	Yellow fever	D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
.0		Α	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
hag	Dengue fever	D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jorr	Ebola Virus Disease	Α	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- Ferri	Ebola viius Disease	D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E E	Lassa fever	Α	0	2	0	0	0	0	0	0	0	0	0	1	0	0	0	3	189	43
- <del>-</del> -	Lussa rever	D	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	39	19
츷	COVID-19	Α	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0
uza		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
flue	Influenza Like Illnesses	Α	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	154	0
<u>=</u>		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dis	Acute Bloody Diarrhoea (Shigellosis)	A D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	5 0	874 0	0
real		+ 1	0	0	0	0	0	0	0	1	0		0		0			7	877	0
a tr	Severe Acute Watery Diarrhoea (Cholera)	Α								·		1		1		2	2	_		
=		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Events of Public Health I Diarrheal Dise Influenza-Lik Viral Hemorrhagic F Vaccine Preventable Disea	Maternal Mortality	D	0	0	0	1	0	0	0	0	1	0	3	2	0	0	0	7	293	
H S	Neonatal Mortality	D	0	0	0	0	0	0	0	0	2	0	5	0	0	0	0	7	728	
ild i	AFFI	Α	5	0	0	0	6	0	0	0	1	2	7	0	0	3	4	28	1009	0
of P	AEFI	D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
nts	Unavalained Charter of Unable France (B)	Α	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eve	Unexplained Cluster of Health Events/Disease	D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Α	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	158	14
ses	Mpox	D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
seases		Α	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Tuberculosis	D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Reportable Di	Human Exposure to Rabies (Suspected Human	Α	0	3	1	7	2	3	2	3	2	4	5	11	5	0	5	53	3,611	0
pod	Trainan Exposure to Nables (Suspected Human	D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
' Re	Meningitis	Α	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39	0
the	- 9	D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
•	Unexplained Cluster of deaths	Α	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	1 110	0
ed T	Buruli Ulcer	A D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	119	0
lect		A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 241	0
Neglected Tr	Yaws	D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
_	i		9		J		J	6	J	J	,	۲	9		J		9		<u>,                                      </u>	80

**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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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.