

Epi-week 23 (June 5-11, 2023)

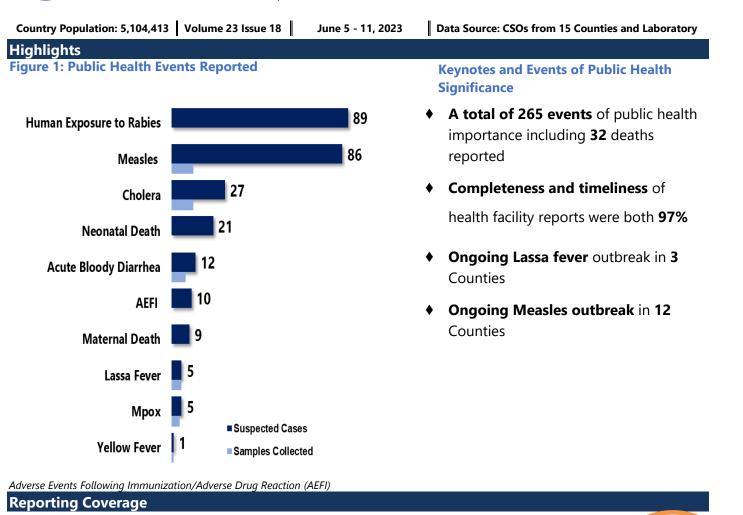


Table 1: Health Facility Weekly IDSR Reporting Coverage, Liberia, Epi-week 23, 2023

County	Expected Reports From HF*	Reports Received	Received on Time	Completeness (%)	Timeliness (%)	949(97%) Health facilities
Bomi	28	28	28	100	100	reported IDSR data
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	98(100%)
Grand Gedeh	24	24	24	100	100	Health
Grand Kru	24	24	24	100	100	districts
Lofa	60	60	60	100	100	reported IDSR data
Margibi	66	66	66	100	100	ib Sit data
Maryland	28	28	28	100	100	
Montserrado	418	389	389	93	93	
Nimba	92	92	92	100	100	949 (97%)
Rivercess	21	21	21	100	100	Health
River Gee	20	20	20	100	100	facilities
Sinoe	41	41	41	100	100	reported
Liberia	978	949	949	97	97	timely IDSR

• 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

<u>Measles</u>

- Eighty-six (86) suspected cases were reported from 11 Counties (see distribution in Table 2)
- Eleven (11) specimens collected and pending testing
- Fifty-nine (59) were vaccinated (see distribution in Table 3)

Table 2: Distribution of Measles cases per county and epi-classification, Liberia, Epi week 23, 2023

COUNTY	Cases	Lab confirmed		ATION OF (S, EPI WEE	CONFIRMED K 1-23	Deaths	CFR	CUMULATIVE # SUSPECTED	CUMULATIVE # CONFIRMED
COUNTY	Week 23	Epi Week 23	Lab confirmed	Epi Linked	Clinically Compatible	Deaths	(%)	CASES, EPI WEEK 1-23	CASES, EPI WEEK 1-23
Bomi	0	0	0	13	49	0	0.0	73	64
Bong	3	0	2	6	177	1	0.5	185	185
Gbarpolu	0	0	0	0	31	0	0.0	32	31
Grand Bassa	2	0	0	0	144	0	0.0	146	144
Grand Cape Mount	3	0	0	2	58	0	0.0	69	61
Grand Gedeh	9	0	4	26	192	0	0.0	265	222
Grand Kru	1	0	6	72	600	2	0.3	680	678
Lofa	8	0	0	0	84	0	0.0	92	84
Margibi	3	0	1	8	178	0	0.0	189	187
Maryland	14	0	0	0	548	0	0.0	550	548
Montserrad o	30	0	4	53	870	2	0.2	935	927
Nimba	8	0	2	33	238	3	1.1	275	273
River Gee	1	0	0	0	98	0	0.0	118	98
Rivercess	0	0	1	0	25	0	0.0	31	26
Sinoe	4	0	4	11	70	0	0.0	99	85
Grand Total	86	0	27	224	3,362	8	2	3,739	3,613

Table 3: Vaccination Status of Measles Cases, Liberia, Epi week 23 2023

			Number of Do	ses Received
County	Vaccinated	One Dose	Two Doses	Doses Not indicated
Bomi	0	0	0	0
Bong	2	2	0	0
Gbarpolu	0	0	0	0
Grand Bassa	0	0	0	0
Grand Cape Mount	3	2	1	0
Grand Gedeh	4	1	1	2
Grand Kru	0	0	0	0
Lofa	8	0	4	4
Margibi	1	1	0	0
Maryland	4	3	0	1
Montserrado	25	24	1	0
Nimba	8	8	0	0
River Gee	1	0	0	1
Rivercess	0	0	0	0
Sinoe	3	3	0	0
Grand Total	59	44	7	8

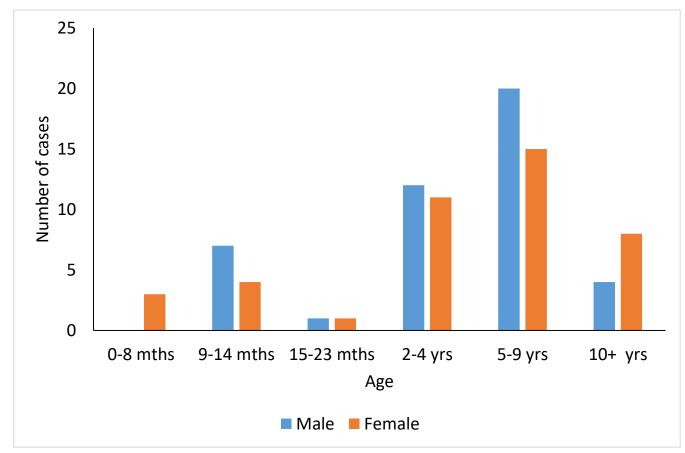


Figure 2: Distribution of Measles Cases by Age and Sex, Liberia Epi Week 23, 2023

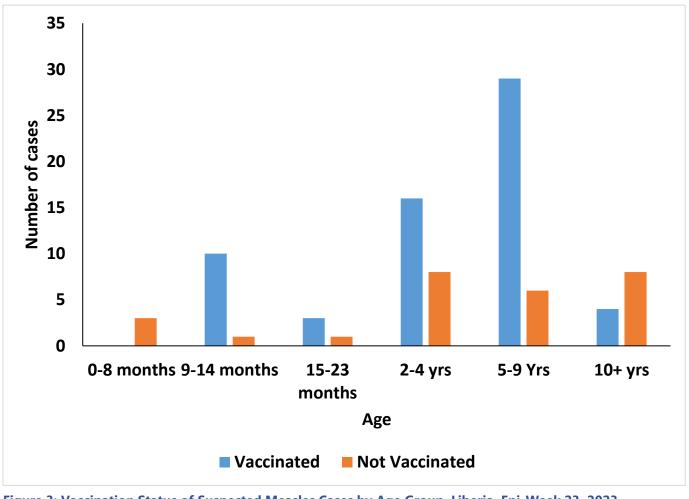


Figure 3: Vaccination Status of Suspected Measles Cases by Age Group, Liberia, Epi-Week 23, 2023

Outbreak Section

Table 4: Cumulative Distribution of Measles Cases and Deaths, December 13, 2021 - June 11, 2023

COUNTY	CUMULA TIVE SUSPECT ED CASES	TIVE CUMULAT CASES SUSPECT CONFIRM ED CASES ED CASES		ONFIRMED	CLASSIFIC	ATION OF CO DEATHS	NFIRMED	CUMULA TIVE DEATHS	CFR (%)	# CONFI RMED CASES WEEK	# CONFI RMED CASES WEEK 23	% CHA NGE	Outbreak Status	
			Lab confirmed	Epi Linked	Clinically Compatible	Lab confirmed	Epi Linked	Clinicall y Compati ble			22			
Montserra do	5, 301	5,224	145	1657	3422	3	61	5	69	1.3	18	30	- 148	Ongoing
Nimba	1044	1,013	37	187	789	0	1	3	4	0.4	5	6	- 115	Ongoing
Margibi	821	797	34	136	627	0	0	1	1	0.1	0	3	- 100	Ongoing
Grand Bassa	933	895	40	212	643	1	0	6	7	0.9	0	2	- 100	Ongoing
Lofa	343	273	32	66	175	0	0	0	0	0	1	2	-75	Ongoing
Bong	589	564	22	21	521	0	1	2	3	0.5	4	2	-46	Ongoing
Maryland	955	940	24	308	608	0	0	0	0	0	16	12	9	Ongoing
Grand Gedeh	526	366	34	48	284	0	0	0	0	0	12	9	-	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	-	Ongoing
Grd Cape Mount	215	187	17	18	152	0	2	1	3	1.6	0	0	-	Ended
Grand Kru	938	910	22	106	782	0	0	2	2	0.2	14	1	-22	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	100	76	0	0	76	0	0	0	0	0	1	1	-99	Ongoing
Total	12,411	11,753	504	2,926	8,323	5	68	22	95	7.8	71	68	-6	

Public Health Response

I. Coordination

o Response efforts have been coordinated by CHTs with support from partners

II. Epidemiological Surveillance

- o Surveillance activities intensified in affected counties (Grand Kru, Grand Gedeh, and Maryland)
- Active case search ongoing
- o Conducted awareness in affected communities

III. Case management

 Cases were symptomatically treated and discharged home for home-based isolation in Lofa, Grand Gedeh, and Grand Kru, Counties

IV. Immunization

• Six days of immunization outreach targeting 70 children (age group 9-23 months) conducted in Tchien and

Konobo districts (Grand Gedeh County)

V. Laboratory

- Specimens were collected from 5 districts in 3 counties for testing (River Gee-Sarbo, Chedepo and Gbeapo, Grand Gedeh-B'hai, and Sinoe-Kpanyan-2).
- Five hundred nine (509) cases have been confirmed by the laboratory from December 13, 2021 –June 4, 2023.
- o Delayed in releasing laboratory results for priority diseases

VI. Risk Communication and Community Engagement

 Awareness and health education on prevention and control of measles ongoing on Smile FM Radio in Grand Gedeh County • Ongoing engagement with community stakeholders, parents, and health care workers on measles prevention ongoing in Montserrado and Grand Cape Mount, Grand Gedeh, and Nimba Counties

Challenges

- o Limited support to response to the Measles outbreak in Grand Bassa County
- o Irregular samples transportation by Riders for Health in Grand Kru County
- o DSOs lack functional laptop computers in all the outbreak Counties and Districts
- o Limited specimen collection kits for priority diseases in Montserrado
- o Stock out of alert and lab submission forms in Maryland, Grand Cape Mount, and Lofa Counties

Acute Flaccid Paralysis (AFP)

- Zero cases reported
- Cumulatively, twenty-five (25) cases were reported
 - Ten (10) tested negative
 - o Fifteen (15) pending

Neonatal Tetanus

- ☞ Zero cases reported
- Cumulatively, thirty (30) cases including 4 deaths reported

Influenza-Like Illnesses	
<u>Coronavirus Disease (COVID-19)</u>	
<u>Outbreak</u>	
No new confirmed cases reported	

- No new confirmed cases reported
- 🖙 Cumulatively, eight thousand, twenty-two (8,022) confirmed cases, including 294 deaths
 - o 601 healthcare workers
- A total of 17,827 contacts have been generated
 - o 1,772 healthcare workers

Public Health Actions

- o IMS coordination meeting ongoing
- Surveillance activities including active case search and case investigation ongoing in the affected counties using WHO interim guidelines
- o Case management ongoing for confirmed cases
- o Compulsory testing among outgoing travelers as required by the country of destination ongoing

Influenza

- Zero suspected case was reported
- Cumulatively, 39 suspected cases reported

Viral Hemorrhagic Diseases

Lassa fever

- Five (5) suspected cases were reported from Grand Bassa (2), Nimba (2 deaths), and Bong (1) counties
- Five (5) Specimens were collected: 1 tested positive (Grand Bassa) and 4 negative
- Cumulatively, one hundred and twenty-eight (128) suspected cases reported
 - Proportion of suspected cases with a sample collected (114/128) 89%
 - Proportion of suspected cases with sample tested (114/114) 100%

Current Outbreak

Lassa fever disease

- One (1) new confirmed case was reported from Grand Bassa County
- Cumulatively, seventy-nine (79) laboratory-confirmed cases including 23 deaths reported (CFR=29%)

Table 5: Summary of Lassa fever Outbreak, Liberia, Jan 6, 2022-June 11, 2023

Age (Yrs)	Sex C	Outcome	Occupation	Community of resident	of	Reporting County		Date of Admission	Hospital	symptoms		Date specimen sent to Lab.			Date case confirmed	contacts		link
										fever (≥38./°C),								
										headache,								
				Seek Camp,						malaise,								
				LAC	District	Grand			LAC	vomiting, sore								
49yrs	М	Dead	Unknown	Plantation	#3AB	Bassa	2-Jun-23	5-Jun-23	Hospital	throat, swollen	5-Jun-23	5-Jun-23	5-Jun-23	5-Jun-23	8-Jun-23	3	0	No

Table 6: Summary of Lassa fever Outbreak, Liberia, Sept 9, 2022 to present

County	Outbreak Districts	Outbreak Start Date	Total suspected cases	Total confirme d cases	Deaths in HCWs	Total Deaths	CFR %	Total Contacts	# HCW	Contacts_b ecame cases	HCW became confirmed case	Contacts under follow up	Contacts completed	Days in countdown	Outbreak Status
M	Bushrod	13-Feb-23	3	2	0	1	50%	29	21	0	0	0	29	Completed	Over
Montserrado	Central Monrovia	3-Mar-23	13	1	0	1	100%	28	27	0	0	0	28	Completed	Over
		21-Apr-23	119	33	2	7	21%	303	147	6	4	46	257	Ongoing	Active
Bong	Sanoyea	5-Apr-22	1	1	0	1	100%	10	10	0	0	0	10	Completed	Over
	Jorquelleh	6-Jan-22	11	8	1	2	25%	99	61	3	3	0	99	Completed	Over
Grand Bassa	District 3A&B	9-Sep-22	59	30	0	9	30%	159	30	2	0	12	147	Active	Ongoing
Nimba	Sanniquellie- Mah	6-Feb-23	7	2	0	0	0%	43	35	8	0	0	43	Completed	Over
	Tappita	13-Mar-23	3	1	0	1	100%	36	17	4	0	0	36	Completed	Over
	Bain-Garr	1-Jun-23	6	1	0	1	100%	14	11	0	0	14	0	Active	Ongoing
	8		222	79	3	23		721	359	23	7	72	649		

Public Health Measures

o NPHIL continues to provide technical support to the affected counties

I. Surveillance:

- o Heightened case detection and reporting in affected communities and districts
- o Situational reports are produced and shared regularly at the National Level
- Daily follow-up/monitoring of contacts

II. RCCE

- o 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

o Cases isolated and ribavirin treatment not administered

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

0

- One (1) suspected case was reported from Sinoe County
- No specimen was collected
- Cumulatively fifty-six (56) suspected cases reported
 - Proportion of suspected cases with samples collected (45/56) 80%
 - Three (3) samples were collected but not transported (Epi week 5 from Grand Gedeh, River Gee, and Grand Kru Counties)
 - Proportion of samples collected and tested (27/42) 64%
 - Negative- 27
 - Pending testing -15

Dengue Fever

- 🖙 Zero case was reported
- Cumulatively, one case reported

Ebola Virus Disease

Zero suspected case was reported

Diarrheal Diseases

Acute Bloody Diarrhea (Suspected Shigellosis)

- Twelve (12) cases were reported: Lofa (3), Sinoe (2), Grand Kru (2), Grand Gedeh (1), Nimba (1), River Gee (1), Rivercess (1), and Montserrado (1) Counties
- Seven (7) specimens were collected and pending testing
- Cumulatively, three hundred two (302) cases were reported
 - o One hundred twenty-three (123) specimens were collected
 - 57 tested negative
 - 7 specimens rejected
 - Fifty-nine (59) specimens were not transported

Severe Acute Watery Diarrhea (Suspected Cholera)

- Twenty-seven (27) suspected cases were reported: Lofa (7), Sinoe (5), Grand Kru (4), River Gee (2), Grand Bassa (2), Nimba (2), Rivercess (1), Bong (1), Gbarpolu (1), Bomi (1), and Montserrado (1) counties
- Eleven (11) specimens were collected and pending testing
- Cumulatively, four hundred nineteen (419) cases reported
 - One hundred thirty (130) specimens collected
 - 51 tested negative
 - 7 specimens rejected
 - Seventy-two (72) specimens were not transported

Other Reportable Diseases

Animal bite (Human Exposure to Rabies)

Eighty-nine (89) animal bites were reported

Table 7: Distribution of Animal bite cases and PEP administration per county, Liberia, Epi week 23, 2023

Counties	Cases	Person receiving PEP	PEP doses administered	Cumulative cases (Wk 1-23)	Cumulative PEP administered (Wk 1-23)
Bomi	3	3	3	33	20
Bong	6	5	4	123	57
Gbarpolu	0	0	0	14	0
Grand Bassa	9	0	0	130	10
Grand Cape Mount	2	2	2	44	27
Grand Gedeh	2	1	1	54	7
Grand Kru	1	0	0	128	15
Lofa	6	3	3	117	46
Margibi	4	2	2	95	48
Maryland	7	3	3	84	36
Montserrado	30	7	7	458	125
Nimba	13	9	9	197	82
Rivercess	2	2	2	31	35
River Gee	1	0	0	63	0
Sinoe	3	0	0	67	6
Total	89	37(42%)	36	1,638	514

Public Health Actions

Ongoing monitoring and follow-up of cases

Meningitis

- Zero (0) case was reported
- Cumulatively, nineteen (19) suspected cases reported
 - Proportion of suspected cases with samples collected (17/19) 89%
 - Proportion of sample tested (12/17) 71%
 - 10 negative and 2 positive

<u>Mpox</u>

- Five (5) suspected cases were reported: Montserrado (2), Nimba (2), and River Gee (1) counties
- Four (4) specimens were collected and pending testing
- Cumulatively, eighty-four (84) suspected cases reported
 - o Seven (7) confirmed

Outbreak

Mpox:

- No new confirmed case reported
- All contacts completed follow-up

Events of Public Health Importance

Maternal Mortality

- Nine (9) deaths were reported: Montserrado (3), Bong (3), Nimba (2), and Maryland (1) Counties
- Reported causes: Sepsis (3), Eclampsia (2), Obstructed labor (2), PPH (1), and Retained placenta (1)
- ☞ Reporting Site:
 - Health facility (7/9) 78%
 - Community (2/9) 22%
 - Cumulatively, one hundred sixty-one (161) deaths reported
 - Proportion of death reviewed (41/161) 25%
 - Proportion of community death (23/161)14%

Neonatal Mortality

- Twenty-one (21) deaths were reported: Montserrado (17), Sinoe (1), Nimba (1), Grand Kru (1), and Bomi (1) counties
- Reported causes: Neonatal sepsis (10) Preterm (6), and Birth Asphyxia (5)
- Reporting sites:
- Health facility (21/21) 100%
- Cumulatively, three hundred fifty-six (356) deaths reported

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

- For (10) cases were reported: from Sinoe (5), Grand Bassa (2), Grand Gedeh (1), Maryland (1), and Lofa (1) Counties
- All reported cases were non-serious
- Related vaccine:
 - COVID-19 (2/10) 20%
 - Penta (3/10) 30%
 - o Others (5/10) 50%
- ☞ Cumulatively, three hundred ten (310) events were reported and COVID-19 accounted for (152/310) 49%

Border Surveillance Update

A total of 4,554 travelers were recorded for the week with incoming travelers accounting for 48% (2,188/4,554)

Table 8: Border activity at the PoE for Incoming and Outgoing Travelers, Liberia, Epi week 23, 2023

T (D. (.		Weekly			Total traverlers	Yellow	Card	Travelers Vaccinated against YF & Issued	Alerts detected/	COVID-19	Evidence of COVID-19 vaccination
Type of Ports	Point of Entry	total	Arrival	Departure	with YB	Book Damage	Replaced	book	Verified	Reactive	card/certificate
	James S. Paynes	69	24	45	10	0	0	0	0	0	10
Airport	Robert Int'l Airport	3297	1499	1798	3217	73	73	14	0	0	3239
Seaport	Freeport of Monrovia	190	95	95	190	0	0	0	0	0	190
	Buchanan Port	78	39	39	78	0	0	0	0	0	78
	Bo Water Side	472	326	146	467	5	5	0	0	0	202
	Ganta	286	143	143	106	0	3	0	0	0	55
Seaport Mo Bu Land Crossing Ga Log	Yekepa	64	27	37	23	0	0	0	0	0	38
Airport Aci Airport Rc Ai Seaport M Bu Bc Land Crossing Gz Ve Lo	Loguatuo	98	35	63	80	0	0	0	0	0	46
Total		4,554	2,188	2,366	4,171	78	81	14	0	0	3,858

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, Monkey pox, COVID-19, and Measles in Nimba, Grand Cape Mount, and Grand Bassa 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

																				-
			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	
of Expec	ted Health District		4	9	5	8	5	6	5	6	4	6	7	6	6	6	10	93		
w	h District Reported		4	9	5	8	5	6	5	6	4	6	7	6	6	6	10	93		
Disease	Acute Flaccid Paralysis (Suspected Polio)	A D	0	0	0	0	0 0	0 0	0 0	0	0	0 0	0	0	0	0	0	0	25 0	
entable	Measles	A D	0	3 0	0	2 0	3 0	9 0	1 0	8 0	3 0	14 0	30 0	8 0	0	1 0	4 0	86 0	7,728 294	7
e Preve	Neonatal Tetanus	A D	0	0	0	0	0	0 0	0 0	0	0	0	0	0	0	0	0	0	26 4	
e Vaccir.	Yellow fever	A D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1 0	1 0	56 0	
hagic Fi	Dengue fever	A D A	0	0	0	0 0	0	0 0	0	0	0	0 0	0 0	0	0	0	0	0	0	
Diarrheal Dised Influenza-Like Viral Hemorrhagic Fe Vaccine Preventable Diseas	Ebola Virus Disease		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(e Viral	Lassa fever	A D	0	1 0	0	20	0	0	0	0	0	0	0	0	0	0	0	3 2	128 0	
enza-Lił	COVID-19	A D	0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ed Influe	Influenza Like Illnesses	A D	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 1	0 0 2	0 0 3	0 0 0	0 0 0	0 0 1	0 0 1	0 0 1	0	0 0 2	0 0 12	39 0 302	
ieal Dis	Acute Bloody Diarrhoea (Shigellosis)	A D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Severe Acute Watery Diarrhoea (Cholera)	A D	1 0	1 0	1 0	2 0	0	0 0	4 0	7 0	0	0	1 0	2 0	1 0	2 0	5 0	27 0	419 0	
ealt	Maternal Mortality	D	0	3	0	0	0	0	0	0	0	1	3	2	0	0	0	9	161	
of Public Health	Neonatal Mortality AEFI	D A	1 0	0	0	0	0	0 1	1 0	0	0	0 1	17 0	1 0	0	0	1 5	21 10	64 310	
Events of I	Unexplained Cluster of Health Events/Diseas	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 2	0	0 0	0 1	0	0 5	0 84	
seases	Monkeypox Tukassulasia	D A	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0	
table Di	Tuberculosis	D A	0 3	0	0	0 9	0	0 2	0 1	0	0 4	0 7	0 30	0 13	0 2	0	0	0 89	0 1,638	
Other Reportable Diseases	Meningitis	D A	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0 19	
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 0	
d Tr	Buruli Ulcer	D A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Neglected Tr	Yaws	D A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ž		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

 \mathbf{D} = Dead \mathbf{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
- IP 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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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.