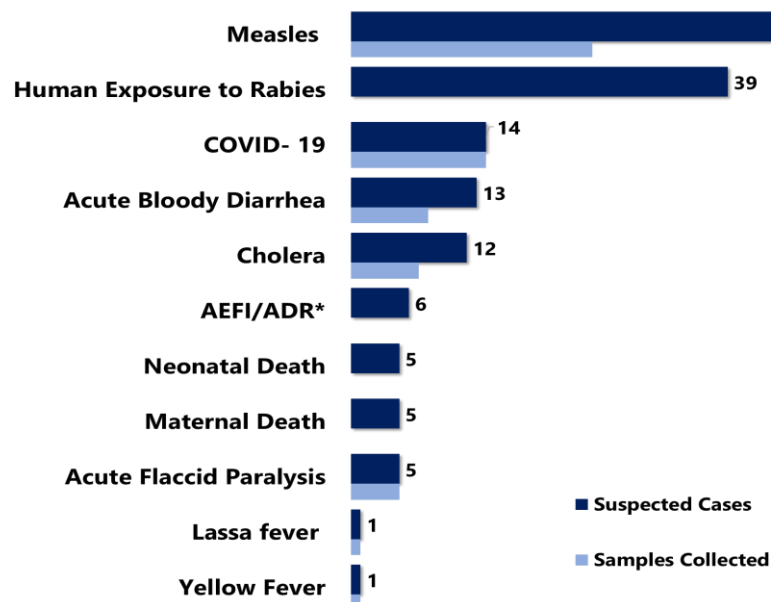


Highlights

Figure 1: Public Health Events Reported during this week

Keynotes and Events of Public Health Significance



*Adverse Event Following Immunization/Adverse Drug Reaction

- ◆ A total of **147** events of public health importance including **10** deaths were reported
- ◆ Completeness and timeliness of health facility reports were both **98%**
- ◆ **Ongoing Lassa fever** outbreak in Bong, Nimba and Grand Bassa Counties
- ◆ **Ongoing Measles** outbreak in five Counties
- ◆ **Nineteen new confirmed COVID-19 cases** reported from three counties

Reporting Coverage

Table 1: Health Facility Weekly DSR Reporting Coverage, Liberia, Epi week 6, 2022

County	Expected Report from Health Facility	Reports Received	Received on Time	Completeness (%)	Timeliness (%)
Bomi	26	26	26	100	100
Bong	57	57	57	100	100
Gbarpolu	16	15	15	94	94
Grand Bassa	36	36	36	100	100
Grand Cape Mount	34	34	34	100	100
Grand Gedeh	24	24	24	100	100
Grand Kru	23	23	23	100	100
Lofa	66	66	66	100	100
Margibi	55	54	54	100	100
Maryland	27	27	27	100	100
Montserrado	329	329	329	100	100
Nimba	91	89	89	98	98
Rivercess	21	21	21	100	100
River Gee	20	20	20	100	100
Sinoe	37	37	37	100	100
Liberia	862	858	858	98	98

858 (98%)
Health facilities reported IDSR data

93 (100%)
Health districts reported IDSR data

858 (98%)
Health facilities reported timely IDSR data

- ◆ The national target for weekly IDSR reporting is 80%. Health facility timeliness is monitored at health district level
- ◆ All counties submitted weekly IDSR reports to the national level on times.

Legend: ≥80 <80

Vaccine Preventable Diseases

Measles

Forty-six (46) suspected cases were reported from Margibi (21), Montserrado (9), Nimba (6), River Gee (3), Lofa (2) Bong (2), Rivercess (1), Maryland (1), and Sinoe (1) counties

- Twenty-five (25) specimens were collected, 19 tested, 10 laboratory confirmed, 9 negative and 6 pending

Vaccination status among suspected cases

- Vaccinated: 21 (46%)
- Not vaccinated: 24 (52%)
- Unknown: 1(2%)

Vaccination status among confirmed

- Vaccinated: 3 (30%)
- Not vaccinated: 7 (70%)

Age distribution among suspected cases

- < 5 years: 28 (61%)
- ≥ 5 years: 18 (39%)

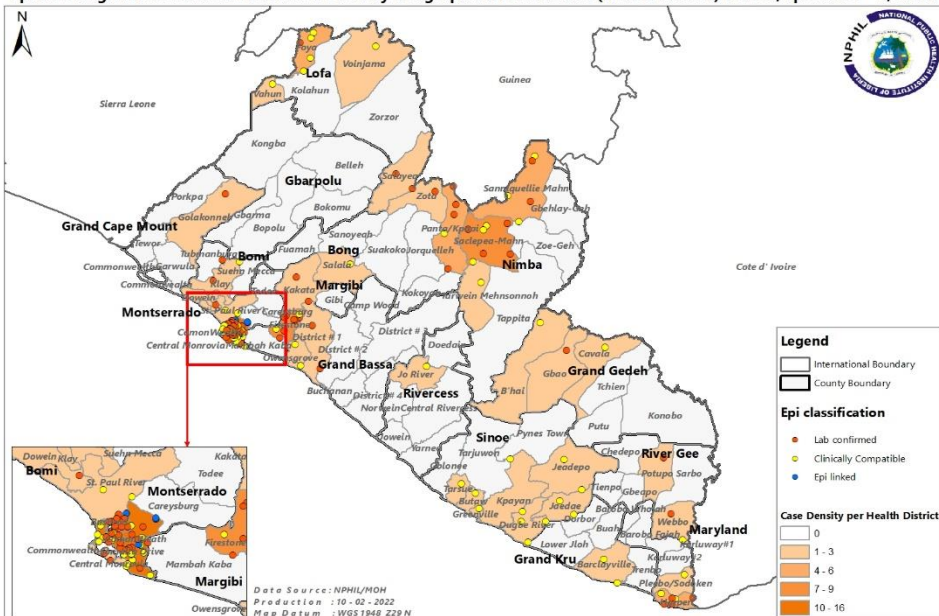
Proportion of samples collected: 75% (164/220)

Proportion of samples tested: 84% (137/164)

Cumulatively, two hundred twenty (220) suspected cases have been reported

- Laboratory confirmed: 76, clinically compatible: 59, epidemiologically linked: 24, non-measles discarded cases: 61

Epidemiological Classification of Measles Cases by Geographical Distribution (Health District) Liberia, Epiweek 1 - 5, 2022



Outbreak

Montserrado County: Commonwealth, Bushrod, and Somalia Drive Districts (Situation update as of the 31st January-February 6, 2022)

- Ninety-nine (99) new cases recorded from Bushrod (37), Commonwealth (46), Somalia Drive (16) districts
- All reported cases are undergoing treatment
- A total of 129 cases line listed up to date, Bushrod (37), Commonwealth (76) and Somalia Drive (16) of which 27 laboratory confirmed
- Median age 3 (range 8months- 31 years)

Vaccination status among lab confirmed:

- Vaccinated 26% (7/27)
- Vaccinated by history 14% (3/27)
- Not vaccinated 63% (17/27)

Bong County: Zota, and Panta Districts (Situation update as of the 31st January-February 6, 2022)

- Twenty-two (22) new cases recorded from Panta District
- A total of 49 cases line listed of which 4 laboratory confirmed
- All reported cases are undergoing treatment
- Median age 4 (range 7months- 52 years)



Liberia IDSR Epidemiology Bulletin



Epi-week 6 (February 7-13, 2022)

Vaccination status among lab confirmed:

- Vaccinated by history 50% (2/4)
- Not vaccinated 25% (1/4)
- Unknown-25% (1/4)

Margibi County: Firestone District (Situation update as of the 31st January-February 6, 2022)

- Twenty-eight (28) new cases recorded
- Seven (7) laboratory confirmed
- All reported cases are undergoing treatment
- Age range (2- 11 years)

Vaccination status in lab confirmed:

- Vaccinated 100% (7/7)

Nimba County: Saclepea-Mah District (Situation update as of the 31st January–February 6, 2022)

- Fourteen (14) new cases recorded
- Five (5) laboratory confirmed
- All reported cases are undergoing treatment
- Median age 4 (range 7months- 52 years)

Vaccination status in lab confirmed:

- Vaccinated by history 40% (2/5)
- Not vaccinated 40% (2/5)
- Unknown-20% (1/5)

Maryland County: Harper District (Situation update as of the 31st January – 6th February, 2022)

- Four (4) new cases recorded of which are
- Three (3) laboratory confirmed
- All reported cases are undergoing treatment
- Age range (4-18 years)

Vaccination status in lab confirmed:

- Unknown-100% (4/4)

Public Health Actions

- 👉 A two-day integrated mini measles campaign was conducted in affected and surrounding communities, 315 children were vaccinated. Age ranging from 11 months -2 years in Commonwealth district.
- 👉 Case management ongoing in health facilities and communities
- 👉 A one-day immunization campaign was conducted and one hundred thirty-four (134) children, 6 – 59 months were vaccinated in Zota District.

Challenges

- Limited support for response activities
- Limited medical supply for case management
- Limited logistic (Fuel for Response vehicle)
- Stock out of measles vaccine since November 2021
- Limited Vitamin A in health facility

Epi-week 6 (February 7-13, 2022)

- Noncompliance of parents to give their children eligible for vaccine
- Lack of communication cards (Data) for reporting
- Delay of specimen transport and laboratory results feedback to the county

Acute Flaccid Paralysis (AFP)

- 👉 Five (5) cases reported from Bong, Nimba, Margibi, Rivercess and Sinoe Counties
- 👉 Specimens collected, shipped and pending testing
- 👉 Cumulatively, twelve (12) AFP cases have been reported

Neonatal Tetanus

- 👉 Zero case reported
- 👉 Cumulatively, seven (7) clinically diagnosed cases reported

Influenza-Like Illnesses

Coronavirus Disease (COVID-19)

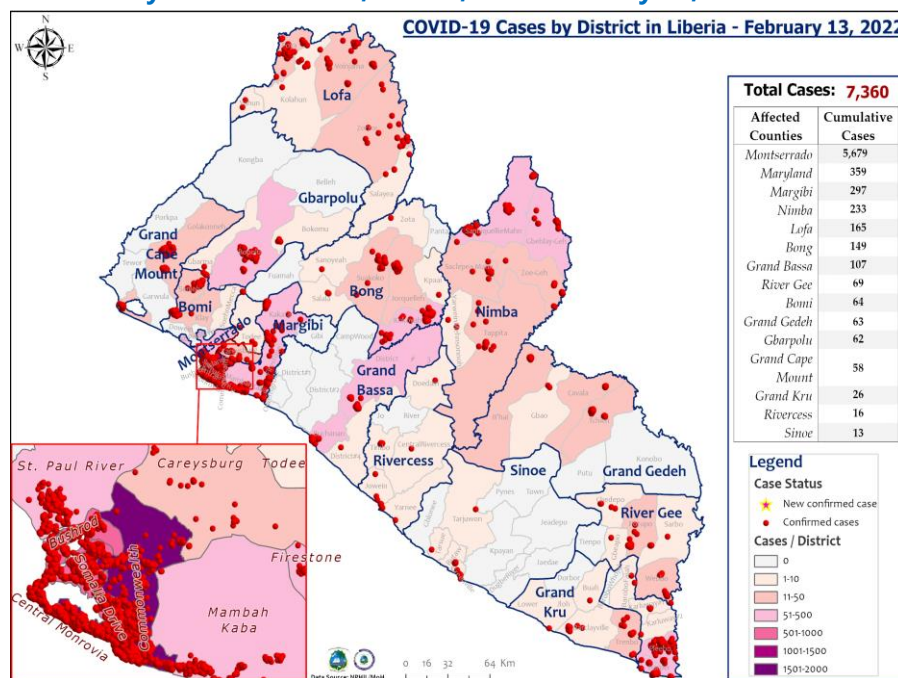
Outbreak

- 👉 Nineteen (19) new confirmed cases were reported from Montserrado (17), Bomi (1), and Grand Gedeh (1) Counties
 - Four (4) contacts are being followed up in Grand Gedeh County
- 👉 A total of four hundred seventy-eight (478) confirmed cases have been reported since epi week 1
- 👉 Cumulatively, seven thousand three hundred sixty (7,360) confirmed cases recorded including 290 deaths and 404 healthcare workers reported with 17,585 contacts generated

Public Health Actions

- 👉 Weekly IMS coordination meeting on-going
- 👉 Surveillance activities including active case search, contact tracing and case investigation on-going in affected counties using WHO interim guidelines
- 👉 Reinforcing hand washing in all public areas (markets, health facilities, public offices, checkpoints etc.)
- 👉 Case management ongoing for confirmed cases
- 👉 Compulsory testing among outgoing and incoming travelers ongoing

Figure 2: Geographical Distribution of Laboratory Confirmed COVID-19 Cases by Health Districts, Liberia, as of February 13, 2022

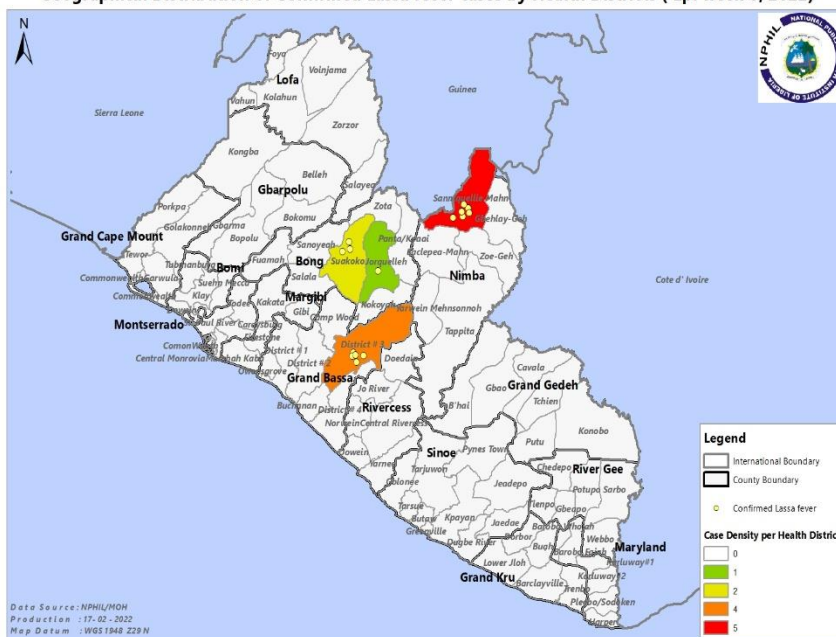


Viral Hemorrhagic Diseases

Lassa fever

- ☞ One (1) suspected case reported from Grand Bassa County
 - Specimen collected and tested positive
- ☞ Cumulatively, twenty-nine (29) suspected cases reported including 7 deaths
 - Proportion of suspected cases with sample collected 100% (29/29)
 - Proportion of suspected cases with sample tested 100% (29/29)
 - Sixteen (16) confirmed cases including 5 deaths CFR 31.3%

Geographical Distribution of Confirmed Lassa fever cases by Health Districts (Epi week 6, 2022)



Outbreak

Three Counties currently in Outbreak: Grand Bassa, Nimba, and Bong

Grand Bassa County: District 3 A&B

- ☞ One new confirmed case reported
- ☞ On 7 February 2022, a 26-year-old male, resident of Small Four Camp, LAC Plantation, presented LAC hospital with fever, nausea and weakness. He was tested negative for Malaria but based on the ongoing Lassa fever outbreak in the district, he was immediately isolated. Specimen was collected and sent to National Reference laboratory on the same day for testing and initiated Ribavirin. The case was confirmed positive on 9 February 2022 and generated two contacts with no epi-link.

Nimba County: Sanniquellie-Mah District

- ☞ On 29 January 2022, an 18-year-old female Guinean, resident of New Dicker in Guinea, sought treatment at United Methodist hospital on 29 January, 2022. She was suspected of Lassa fever and sample collected on 30 January 2022. She expired 31 January 2022 and safe and dignified burial conducted by the district health team on 1 February 2022. Positive Lab result released on 2 February 2022. A total of 12 contacts generated.
- ☞ On the 7th of January 2022, an 8 years-old male, resident of Ganta City, Sanniquellie-Mah District, sought treatment at E&J Medical Health Center on February 3 2022. He was suspected for Measles and Lassa fever on February 4, 2022 and sample was collected same day. After spending six days in the hospital, the case was discharged from the hospital February 7, 2022. Positive Lab result was released on February 7, 2022. A total of 15 contacts were generated all HCWs.

Bong County: Suakoko District

- 👉 On 30 January 2022, a 30-year-old female, resident of Plum Valley Community in Gbarnga City, Suakoko District presented at the Phebe hospital with fever and was admitted. She was suspected of Lassa fever on 2nd February 2022, sample collected and tested positive by PREPARE (University of North Carolina) with Ribavirin treatment initiated.
- 👉 On 3 February 2022, the second sample was collected and sent to the National Reference lab and confirmed positive on the next day. A total of 6 contacts generated including HCWs.

Public Health Actions

- 👉 Case management ongoing for the confirmed cases in isolation
- 👉 Continue to air LF prevention and control message in affected and surrounding districts

Yellow fever

- 👉 One (1) suspected case reported from Grand Cape Mount County
 - Specimen collected and pending testing
- 👉 Cumulatively, fourteen (14) suspected cases reported
 - Proportion of suspected cases with sample collected 86% (12/14)
 - Proportion of suspected cases with sample tested 67% (8/12)

Diarrheal Diseases

Acute Bloody Diarrhea (Suspected Shigellosis)

- 👉 Thirteen (13) suspected cases reported from Sinoe (4), Lofa (2), Nimba (2), Maryland (1), River Gee (1), Rivercess (1), Grand Gedeh (1) and Bong (1) Counties
 - Eight (8) specimens collected and pending testing
- 👉 Cumulatively, ninety-five (95) suspected shigellosis cases reported with 30 specimens collected: 19 negative, 1 positive 10 pending

Severe Acute Watery Diarrhea (Suspected Cholera)

- 👉 Twelve (12) suspected cases reported from Maryland (5), Nimba (3), Rivercess (1) Margibi (1), Bong (1) and Grand Kru (1) Counties
 - Seven (7) specimens collected and pending testing
- 👉 Cumulatively, fifty-four (54) suspected cholera cases reported with twenty-four (24) specimens collected and eleven (11) tested negative

Other Reportable Diseases

Animal bite (Human Exposure to Rabies)

- 👉 Thirty-nine (39) animal bite cases reported from Nimba (7), Maryland (7), Grand Gedeh (4), Lofa (4), Margibi (4), Grand Bassa (3), Grand Kru (3), Grand Cape Mount (2), Sinoe (2), River Gee (1), Bong (1) and Montserrado (1) Counties
- 👉 Dog bites accounts for 100%
- 👉 Cumulatively, two hundred seventy-four (274) animal bite cases reported

Public Health Actions

- 👉 1-4 doses of post exposure prophylaxis administered to about 23% (9/39) persons
- 👉 Cumulatively, 1-4 doses of post exposure prophylaxis were administered to about 19% (51/274)

Meningitis

- 📁 Zero suspected cases reported
- 📁 Cumulatively, six (6) suspected cases reported including one confirmed

Monkeypox

- 📁 Zero suspected case reported
- 📁 Cumulatively, four (4) suspected cases reported, two (2) specimens collected pending shipment

Events of Public Health Importance

Maternal Mortality

- 📁 Five (5) deaths reported from Margibi (3), Grand Kru (1), and Nimba (1) Counties
 - Causes of death: Eclampsia (2), PPH (2), and Obstructed labour (1)
- 📁 All five deaths occurred at the health facility
- 📁 Cumulatively, thirty-four (34) deaths reported
 - Proportion of community deaths 24% (8/34)
 - Proportion of deaths reviewed 32% (11/34)
 - Proportion of deaths reviewed in the community 36% (4/11)

Neonatal Mortality

- 📁 Five (5) deaths reported from Bong (2), Grand Kru (1), Margibi (1), and River Gee (1) Counties
- 📁 Causes of deaths: sepsis (3), birth asphyxia (2)
- 📁 All five deaths occurred at the health facility
- 📁 Cumulatively: seventy-three (73) deaths have been reported
 - Proportion of community deaths 4% (3/73)
 - Proportion of deaths reviewed 10% (7/73)
 - Proportion of deaths reviewed from the community 29% (2/7)

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

- 📁 Six (6) cases reported from Rivercess (3), Bomi (2) and Grand Cape Mount (1) Counties
- 📁 Cumulatively: forty-four (44) events reported with 91% (40/44) related to COVID-19

Public Health Actions

- 📁 All events were investigated, categorized as *non-serious AEFI and symptomatically treated*
- 📁 Active case search and community engagement ongoing

Border Surveillance Update

- A total of 9,950 travelers recorded for the week with incoming travelers accounting for 52% (5183/9950)
- One traveler reactive for COVID-19.

Table2: Border activity at the PoE for Incoming and Outgoing Travelers, Liberia, Epi week 6, 2022

Type of Ports	Point of Entry	Weekly total	Arrival	Departure	Yellow Book Issued	Yellow Book Damage	Card Replaced	Travelers Vaccinated	Alerts Verified	COVID-19 Reactive	vaccinated for COVID-
Airport	James S. Paynes	35	22	13	0	0	0	0	0	0	5
	Robert Int'l Airport	2728	1406	1322	25	25	0	0	0	1	2722
Seaport	Freeport of Monrovia	112	56	56	0	0	0	0	0	0	56
	Harper	0	0	0	0	0	0	0	0	0	0
	Buchanan Port	104	52	52	0	0	0	0	0	0	52
Land Crossing	Bo Water Side	593	316	277	46	40	0	6	0	0	15
	Ganta	462	240	222	18	18	0	0	0	0	0
	Yekepa	174	100	74	10	10	0	0	0	0	0
	Loguatu	167	77	90	12	12	0	0	0	0	0
	Yeala	784	360	424	0	0	0	0	0	0	0
	Kpasagizia	596	308	288	0	0	0	0	0	0	0
	Safedu	537	262	275	0	0	0	0	0	0	0
	Konadu	569	353	216	0	0	0	0	0	0	0
	Bolinquidu	653	341	312	0	0	0	0	0	0	0
	Lawalazu	380	199	181	0	0	0	0	0	0	0
	Foya Tengia	296	116	180	0	0	0	0	0	0	0
	Sorlumba	785	410	375	0	0	0	0	0	0	0
	Mendicoma	670	395	275	0	0	0	0	0	0	0
	Worsonga	305	170	135	0	0	0	0	0	0	0
Total travelers		9,950	5,183	4,767	114	105	0	6	0	1	2850

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

Public Health Measures

National level

- Providing technical, logistical, and financial support to counties
 - Publication of situational reports
 - Completed 3rd edition IDSR training in Montserrado county including 225 participants (health facility staff-197, ZSO-22 and DSO-7)
 - All 8 designated PoEs received phone for reporting purpose
 - Investigated 3 confirmed cases of COVID-19 on vessel MV Dalarna at the Freeport of Monrovia on January 27,2022
 - High power delegation visiting Bong and Grand Bassa on Lassa fever intervention
- Operational
 - Provision of financial assistance to enhance operational activities



Liberia IDSR Epidemiology Bulletin

Epi-week 6 (February 7-13, 2022)



County level

👉 Surveillance

- Quarantine and monitoring of domestic animal (Dog) and cases possibly exposed to rabies
- Publication of situational reports
- Active case search ongoing in affected and surrounding communities

👉 Case Management

- PEP administered to nine cases
- Management of admitted cases ongoing
- Ensure the appropriate medical protocol in place

Appendix

Summary of Immediately Reportable Diseases, Conditions, and Events by County

Counties			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 Expected Health District			4	8	5	8	5	6	5	6	4	5	7	6	6	6	10	91			
No. of Health District Reported			4	8	3	8	5	6	5	6	4	5	7	6	6	6	10	89			
Vaccine Preventable Diseases	Acute Flaccid Paralysis (Suspected Polio)	A	0	1	0	0	0	0	0	0	1	0	0	1	1	0	1	5	12	0	
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Measles	A	0	2	0	0	0	0	0	2	21	1	9	6	1	3	1	46	218	76	
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	
	Neonatal Tetanus	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	
	Yellow fever	A	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	14	0	
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Viral Hemorrhagic Fever	Dengue fever	A	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	0	0	
	Ebola Virus Disease	A	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	0	0	
	Lassa fever	A	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	27	11	
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	5	
	Influenza-Like Illnesses	COVID-19	A	0	0	0	1	0	0	0	10	0	0	3	0	0	0	0	14	478	7070
			D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	290
Diarrheal Diseases	Acute Bloody Diarrhoea (Shigellosis)	A	0	1	0	0	0	1	0	2	0	1	0	2	1	1	4	13	95	1	
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Severe Acute Watery Diarrhoea (Cholera)	A	0	1	0	0	0	0	1	0	1	5	0	3	1	0	0	12	54	0	
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Events of Public Health Importance	Maternal Mortality	D	0	0	0	0	0	1	0	3	0	0	1	0	0	0	0	5	34		
	Neonatal Mortality	D	0	2	0	0	0	1	0	1	0	0	0	0	1	0	0	5	73		
	Adverse Events Following Immunization (AEFI)	A	2	0	0	0	1	0	0	0	0	0	0	0	3	0	0	6	44	0	
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
	Unexplained Cluster of Health Events/Disease	A	0	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	0	0	0
Other Reportable Diseases	Monkeypox	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Tuberculosis	A	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	0	0	
	Human Exposure to Rabies (Suspected Human Rabies)	A	0	1	0	3	2	4	3	4	4	7	1	7	0	1	2	39	274	0	
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
	Meningitis	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Unexplained Cluster of deaths	A	0	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	0	0	0
Neglected Tropical Diseases	Buruli Ulcer	A	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	0	0	
	Yaws	A	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	0	0	0
TOTAL			2	8	0	5	4	5	6	8	41	14	10	23	7	6	8	147	1340	7453	

D = Dead A = Alive

Notes

- 👉 **Completeness** refers to the proportion of expected weekly IDSR reports received (target: $\geq 80\%$)
- 👉 **Timeliness** refers to the proportion of expected weekly IDSR reports received by the next level on time (target: $\geq 80\%$). Time requirement for weekly IDSR reports:
 - Health facility - required on or before 5:00pm every Saturday to the district level
 - Health district - required on or before 5:00pm every Sunday to the county level
 - County - required on or before 5:00pm 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: $\geq 2/100,000$)
- 👉 **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 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 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 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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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.