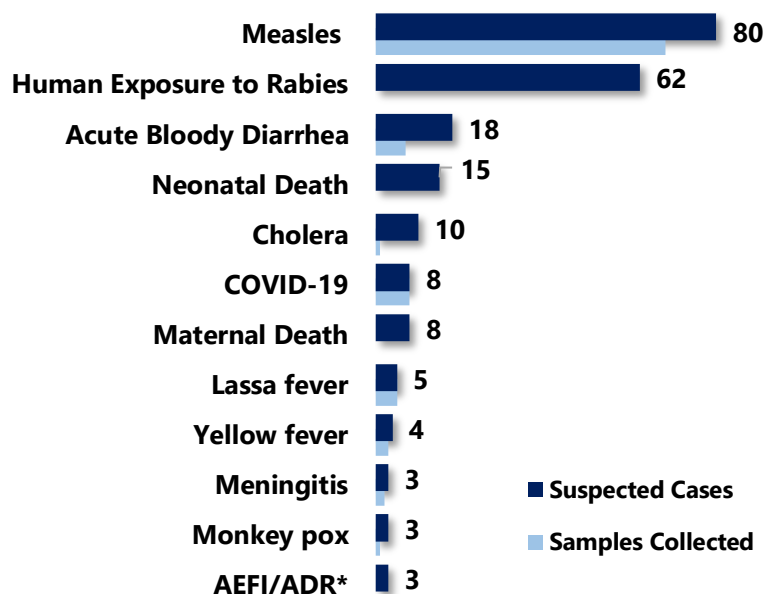


Highlights

Figure 1: Public Health Events Reported during this week

Keynotes and Events of Public Health Significance



- ♦ A total of **215** events of public health importance including **24** deaths were reported
- ♦ Completeness and timeliness of health facility reports were both **99%**
- ♦ **Ongoing Lassa fever** outbreak in Bong, Nimba and Grand Bassa Counties
- ♦ **Ongoing Measles** outbreak in Montserrado, Bong and Margibi Counties
- ♦ **Eight new confirmed COVID-19 cases** reported from two counties

*Adverse Event Following Immunization/Adverse Drug Reaction

Reporting Coverage

Table 1: Health Facility Weekly DSR Reporting Coverage, Liberia, Epi week 5, 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	24	24	88	88
Montserrado	329	329	329	100	100
Nimba	91	89	88	97	96
Rivercess	21	21	21	100	100
River Gee	20	20	20	100	100
Sinoe	37	37	37	100	100
Liberia	862	855	854	99	99

- ♦ 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

855 (99%)
Health facilities reported IDSR data

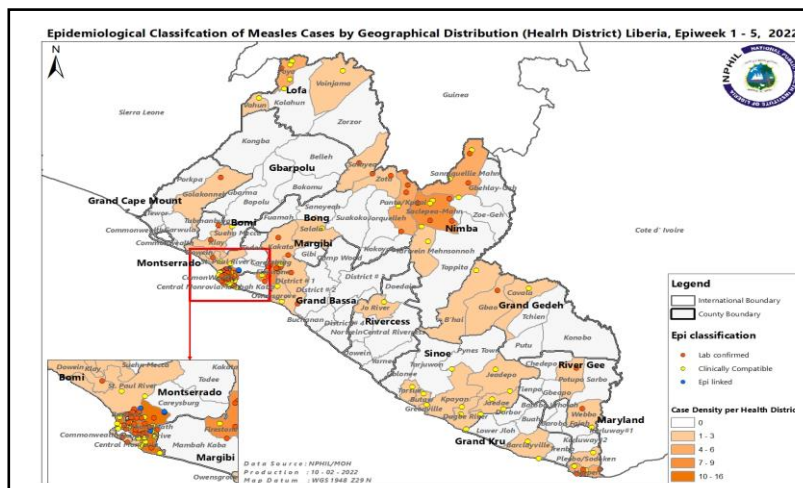
92 (98%)
Health districts reported IDSR data

854 (99%)
Health facilities reported timely IDSR data

Vaccine Preventable Diseases

Measles

- ✎ Eighty (80) suspected cases were reported from Montserrado (42), Margibi (10), Lofa (5), Nimba (4), Bong (5), Sinoe (4), Maryland (4), Bomi (3) Grand Bassa (2) and River Gee (1)
 - Sixty-eight (68) specimens were collected, 48 tested, 37 laboratory confirmed, 11 negative and 20 pending
- ✎ Vaccination status among suspected cases
 - Vaccinated: 40 (50%)
 - Not vaccinated: 34 (42%)
 - Unknown 6 (8%)
- ✎ Vaccination status among confirmed
 - Vaccinated: 21 (57%)
 - Not vaccinated 13 (35%)
 - Unknown 3 (8%)
- ✎ Age distribution among suspected cases
 - < 5 years: 49 (61%)
 - ≥ 5 years: 31(39%)
- ✎ Proportion of samples collected: 85% (68/80)
- ✎ Proportion of samples tested: 71% (48/68)
- ✎ Cumulatively, one hundred seventy-four (174) suspected cases have been reported
 - Laboratory confirmed: 64, clinically compatible: 62, epidemiologically linked: 4, non-measles discarded cases: 44



Outbreak

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

- Fifty-four (54) new cases recorded from Bushrod (34), Somalia Drive (16), and Commonwealth (4) Districts
- All reported cases are undergoing treatment
- A total of 79 cases line listed up to date, Bushrod (34), Commonwealth (29) and Somalia Drive (16) of which 15 laboratory confirmed
- Median age 5 (range 8months- 16 years)

Vaccination status among confirmed:

- Vaccinated 27% (6/22)
 - Vaccinated by history 14% (3/22)
 - Not vaccinated 59% (13/22)
- On 13 December 2021, the Commonwealth Health District was informed by the Surveillance Focal Person at the Iron Factory Community Clinic in Pepper Wulu Town, Johnsonville Township about two suspected cases of Measles. The District Health Team (DHT) verified the report upon receipt of the alerts on 14 December 2021. Eight suspected cases were line listed and two specimens collected and sent to the National Public Health Reference Laboratory (NPHRL) for confirmation on 15 December, 2021. On 20 December, 2021, NPHRL released one positive result. From January 8-22 NPHRL confirmed 6 additional cases.

Deceased Case

- On 14 December 2021, a 4-year-old female resident of Down Town community, in Johnsonville Township was seen with rashes, red eyes, sore throat, and fever at home. She was treated with herbs at home (Cain juice, application of chalk, etc.).
- On 22 December 2021, her illness became severe, thus prompting the parents to take her to the MSF Hospital where she was treated on an OPD basis. According to the parents, she was advised to take her home, but expired while enroute home.
- The mother alleged that her child was vaccinated, but there was no evident of record by vaccine card. Other children in the same community were seen with similar signs and symptoms.

Bong County: Zota District

- No new case recorded
- All reported cases are undergoing treatment
- A total of 27 cases line listed of which 1 lab confirmed
- Median age 4 (range 7months- 52 years)

Vaccination status:

- Vaccinated-81.2% (23/27)
- Unknown-14.8% (4/27)
- On 8 January 2022, the Officer in Charge of Naama Clinic reported an unusual increase in suspected measles cases from Gbansunyagai community and its surroundings. Active case search was conducted in adjacent communities and additional suspected cases were found. The county surveillance team was notified by DHO on 18, January 2022.
- The index case is an 11year old female, who was seen at the health facility on 8 January, 2022. According to the mother, the onset of the child's illness was 6 January, 2022, with signs of skin rashes, weakness, cough, and red eyes. Two specimens were collected on the 9th and sent to the National Public Health Reference Lab for confirmation. One positive result was released on 18 January, 2022. Between 17 to 18 January, 2022, additional eight (08) cases were line listed from the same cluster of the index case.
- Specimens collected from four out of the five cases were sent for confirmation. Vaccination record shows that index case was not vaccinated. She has been living in a bordering community in Guinea where there is a rumor of measles outbreak and came to seek medical care in Bong County. Case was treated with vitamin A and antibiotics.

Deceased case

- The deceased was a 26-month-old male child from Gbansunyagai community in Naama clinic catchment area. She was accompanied by her mother on 18 January, 2022 with complaint of fever, cough, red eyes and skin rash that started on 15th of January 2022. On examination, patient was weak, febrile (38.2⁰C). The case was admitted at the clinic on 18 and was discharged on 21 January 2022. On 25 January, the case returned to the health facility critically ill, while making arrangement for referral the case expired. Even though record revealed the case was fully vaccinated, she lived among a cluster of cases where 12 cases were identified and line-listed.

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

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



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Vaccination status:

- Unknown-100% (4/4)

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

- Ten (10) new cases recorded
- Seven (7) laboratory confirmed
- All reported cases are undergoing treatment
- Age range (2- 11 years)

Vaccination status in confirmed:

- Vaccinated 100% (7/7)

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 (34) children, 6 – 59months were vaccinated in Zota District

Challenges

Montserrado County

- Limited support for response activities
- Limited medical supply for case management
- Limited logistic (Fuel for Response vehicle)

Bong County

- Stock out of measles vaccine since November 2021
- Limited Vitamin A in health facility
- Lack of fuel for DSOs to follow up with cases and conduct active case search in affected and surrounding communities

Acute Flaccid Paralysis (AFP)

- 👉 Zero (0) cases reported
- 👉 Cumulatively, seven (7) AFP cases have been reported

Neonatal Tetanus

- 👉 Zero (0) cases reported
- 👉 Cumulatively, seven (7) clinically diagnosed cases reported

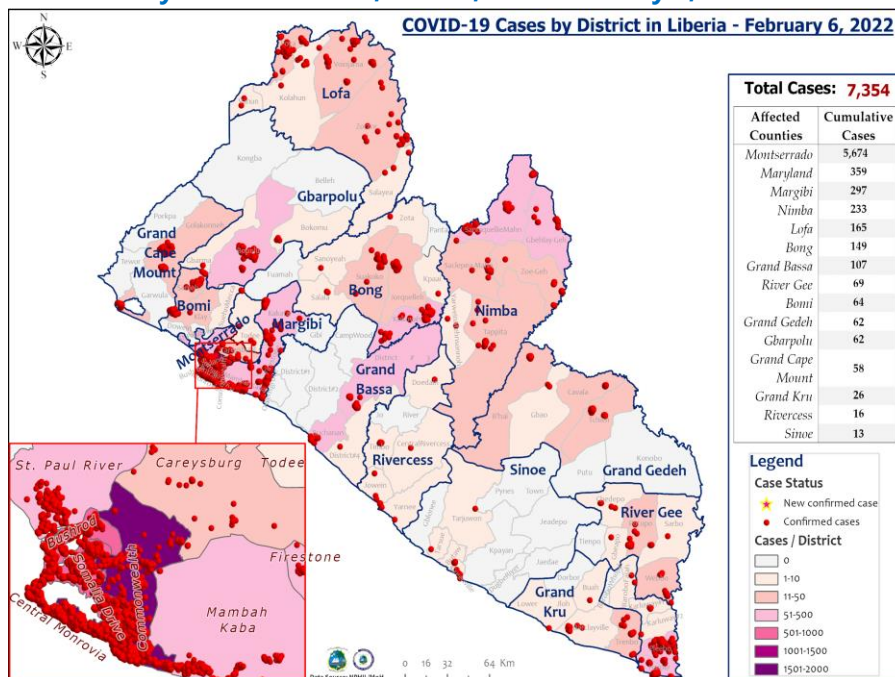
Influenza-Like Illnesses

Coronavirus Disease (COVID-19)

Outbreak

- ✎ Eight (8) new confirmed cases were reported from Montserrado (7), and Bomi (1) Counties
 - Nineteen (19) contacts are being followed up in Montserrado (13), and Margibi (6) Counties
- ✎ A total of four hundred sixty-four (464) confirmed cases have been reported since epi week 1
- ✎ Cumulatively, seven thousand three hundred fifty-four (7,354) confirmed cases recorded including 290 deaths and 404 healthcare workers reported with 17,585 contacts generated

Figure 2: Geographical Distribution of Laboratory Confirmed COVID-19 Cases by Health Districts, Liberia, as of February 6, 2022



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

Viral Hemorrhagic Diseases

Lassa fever

- ✎ Five (5) suspected cases were reported from Montserrado (2), Nimba (2) and Bong (1) Counties
 - Five (5) specimens collected and 3 tested: 2 positive (Nimba 1, Bong 1) and 1 negative and 2 pending testing
- ✎ Cumulatively, twenty-nine (29) suspected cases reported including 6 deaths
 - Proportion of suspected cases with sample collected 100% (29/29)
 - Proportion of suspected cases with sample tested 93% (27/29)
 - Fifteen confirmed cases including 5 deaths CFR 33%

Outbreak

Two New Confirmed Cases Reported from Nimba and Bong Counties

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 29th January, 2022. She was suspected of Lassa fever and sample collected on 30th January 2022. She expired 31st January 2022 and safe and dignified burial conducted by the district health team on 1st February 2022. Positive Lab result released on 2nd February 2022. A total of 12 contacts generated.

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- 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, 202. Positive Lab result was released on February 7, 2022. A total of 15 contacts were generated all HCWs.

Bong County: Suakoko District

- On the 30th of January, 2022, a 30 years old female, resident of Plum Valley Community in Gbarnga City, Suakoko District sought treatment at Phebe hospital. She was suspected of Lassa fever on February 2, 2022 and sample collected February 2, 2022. Ribavirin treatment initiated on February 2, 2022. Positive Lab result was released on February 2, 2022. 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

- Four (4) suspected cases reported from Gbarpolu (2), Grand Cape Mount (1), and Sinoe (1) Counties
 - Three specimens collected and pending testing
- Cumulatively, thirteen (13) suspected cases reported
 - Proportion of suspected cases with sample collected 85% (11/13)
 - Proportion of suspected cases with sample tested 73% (8/11)

Diarrheal Diseases

Acute Bloody Diarrhea (Suspected Shigellosis)

- Eighteen (18) suspected cases reported from Sinoe (10), Montserrado (3), Grand Gedeh (2), Gbarpolu (1), River Gee (1), and Nimba (1) Counties
 - Seven (7) specimens collected: 3 tested, negative and 4 pending
- Cumulatively, eighty-two (82) suspected shigellosis cases reported with 22 specimens collected: 14 negative, 1 positive 7 pending

Severe Acute Watery Diarrhea (Suspected Cholera)

- Ten (10) suspected cases reported from Sinoe (3), Margibi (3), Bomi (3), and Bong (1) Counties
 - One (1) specimen collected and pending testing
- Cumulatively, forty-two (42) suspected cholera cases reported with seventeen (17) specimens collected and eleven (11) tested negative.

Other Reportable Diseases

Animal bite (Human Exposure to Rabies)

- Sixty-two (62) animal bite cases reported from Montserrado (20), Nimba (8), Grand Bassa (7), Maryland (6), Sinoe (5), Grand Cape Mount (3), Rivercess (3), Grand Kru (3), Bong (2), River Gee (2), Lofa (2), and Grand Gedeh (1) Counties
- 100% account for dog bites
- Cumulatively, two hundred thirty-five (235) animal bite cases reported

Public Health Actions

- 1-4 doses of post exposure prophylaxis administered to about 11% (7/62) persons
- Cumulatively, 1-4 doses of post exposure prophylaxis were administered to about 18% (43/235)

Meningitis

- 👉 Three (3) suspected cases reported from Gbarpolu, Grand Bassa, and Grand Kru counties
 - Two (2) specimens collected, one tested negative and one pending testing
- 👉 Cumulatively, six (6) suspected cases reported
 - Four specimens collected, 3 tested negative, and one pending testing

Monkeypox

- 👉 Three (3) suspected cases reported from Lofa (2), and Gbarpolu (1) counties
 - One (1) Specimen collected pending shipment
- 👉 Cumulatively, four (4) suspected cases reported, two (2) specimens collected pending shipment

Events of Public Health Importance

Maternal Mortality

- 👉 Eight (8) deaths reported from Montserrado (5), Nimba (2), and Sinoe (1) Counties
 - Causes of death: Sepsis (4), Eclampsia (1), PPH (1), 2 undergoing investigation
- 👉 All eight deaths occurred at the health facility
- 👉 Cumulatively, twenty-eight (28) deaths reported
 - Proportion of deaths reviewed 39% (11/28)
 - Proportion of deaths reviewed in the community 50% (4/8)
 - Proportion of community deaths 29% (8/28)

Neonatal Mortality

- 👉 Fifteen (15) deaths reported from Montserrado (9), Nimba (3), Maryland (1), Grand Kru (1), and Bong (1) Counties
- 👉 Causes of deaths: sepsis (5), birth asphyxia (8), preterm (1), and one pending review from Grand Kru county
- 👉 All fifteen (15) deaths occurred at the health facility
- 👉 Cumulatively: sixty-eight (68) deaths have been reported
 - Proportion of deaths reviewed 10% (7/68)
 - Proportion of deaths reviewed from the community 29% (2/7)
 - Proportion of community deaths 4% (3/68)

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

- 👉 Three (3) cases reported from Bomi, Montserrado and Rivercess Counties
- 👉 Cumulatively: thirty-eight (38) events reported
 - Proportion of COVID-19 related 99% (37/38)
 - Proportion of BCG 1% (1/38)

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 9,530 travelers recorded for the week with incoming travelers accounting for 48% (4613/9530)
- One traveler reactive for COVID-19.

Table 2: Border activity at the PoE for Incoming and Outgoing Travelers, Liberia, Epi week 5, 2022

Type of Ports	Point of Entry	Weekly Total	Arrival	Departure	Yellow Book Issued	Yellow Book Damage	Card Replaced	Travelers Vaccinated	Alerts Verified	COVID Reactive	Fully vaccinated for COVID
Airport	James S. Paynes	36	16	20	0	0	0	0	0	0	16
	Robert Int'l Airport	3003	1377	1626	32	30	0	2	0	1	1366
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	96	48	48	0	0	0	0	0	0	48
Land Crossing	Bo Water	532	289	243	44	23	0	21	0	0	4
	Ganta	437	200	237	30	30	0	0	0	0	132
	Yekepa	138	79	59	13	13	0	0	0	0	36
	Loguatu	141	66	75	5	5	0	0	0	0	20
	Yeala	1000	450	550	0	0	0	0	0	0	0
	Kpasagizia	363	85	278	0	0	0	0	0	0	0
	Safedu	313	169	144	0	0	0	0	0	0	0
	Konadu	421	255	166	0	0	0	0	0	0	0
	Bolingu	703	333	370	0	0	0	0	0	0	0
	Lawalazu	581	294	287	0	0	0	0	0	0	0
	Foya Tengia	724	342	382	0	0	0	0	0	0	0
	Sorlumba	270	169	101	0	0	0	0	0	0	0
	Mendicoma	264	157	107	0	0	0	0	0	0	0
	Worsonga	396	228	168	0	0	0	0	0	0	0
Total travelers		9,530	4,613	4,917	124	101	0	23	0	1	1678

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



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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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Measles	A	3	5	0	2	0	0	0	5	10	4	42	4	0	1	4	80	59	20
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	2	0	1	0	0	0	0	0	0	0	0	0	0	1	4	5	0
	D	0	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	1	0	0	0	0	0	0	0	0	2	1	0	0	0	4	13	6
D	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	5	3	
Influenza-Like Illnesses	COVID-19	A	1	0	0	0	0	0	0	0	0	0	7	0	0	0	0	8	436	6964
		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	0	1	0	0	2	0	0	0	0	3	1	0	1	10	18	48	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	3	1	0	0	0	0	0	0	3	0	0	0	0	0	3	10	23	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	0	0	0	0	5	2	0	0	1	8	15		
	Neonatal Mortality	D	0	1	0	0	0	1	0	0	1	9	3	0	0	0	15	36		
	Adverse Events Following Immunization (AEFI)	A	1	0	0	0	0	0	0	0	0	1	0	1	0	0	3	29	0	
		D	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
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	1	0	0	0	2	0	0	0	0	0	0	0	0	3	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	2	0	7	3	1	3	2	0	6	20	8	3	2	5	62	133	0
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	Meningitis	A	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	3	1	0
		D	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
TOTAL			8	10	5	10	4	3	5	9	13	11	89	20	4	4	24	219	813	7284

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

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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

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M.D. Vaye
N. K. Dovillie
A. Coker
S. Nuwolo

**Ministry of Health
WHO 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.