



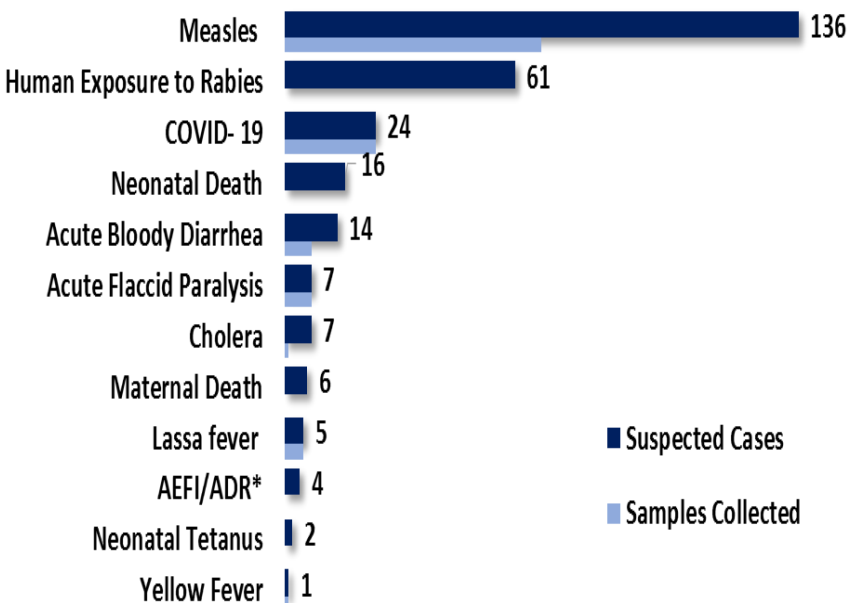
Liberia IDSR Epidemiology Bulletin

Epi-week 8 (February 21-27, 2022)

Country Population: 5,104,413 | Volume 18 Issue 8 | Feb 21 -27, 2022 | Data Source: CSOs from 15 Counties and Laboratory

Highlights

Figure 1: Public Health Events Reported during this week



Keynotes and Events of Public Health Significance

- ♦ A total of **283** events of public health importance including **23** deaths were reported
- ♦ Completeness and timeliness of health facility reports were both **98%** respectively
- ♦ **Ongoing Lassa fever** outbreak in Bong, Nimba, and Grand Bassa Counties
- ♦ **Ongoing Measles** outbreak in five Counties
- ♦ **Twenty-four new confirmed COVID-19 cases** reported from three counties

*Adverse Event Following Immunization/Adverse Drug Reaction

Reporting Coverage

Table 1: Health Facility Weekly IDSR Reporting Coverage, Liberia, Epi week 8, 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	98	98
Maryland	27	27	27	100	100
Montserrado	329	329	329	100	99
Nimba	91	88	88	98	98
Rivercess	21	21	21	100	100
River Gee	20	20	20	100	100
Sinoe	37	37	37	100	100
Liberia	867	854	854	98	98

- ♦ 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

854 (98%)
Health facilities reported IDSR data

93 (100%)
Health districts reported IDSR data

854 (98%)
Health facilities reported timely IDSR data

Vaccine Preventable Diseases

Measles

One hundred thirty-six (136) suspected cases were reported from Montserrado (83), Nimba (18), Maryland (13), Margibi (4), Lofa (4), Grand Gedeh (4), Gbarpolu (2), River Gee (2), Sinoe (2), Grand Bassa (2), Grand Cape Mount (1), and Grand Kru (1) counties

- Sixty-eight (68) specimens were collected and 45 tested: 28 laboratories confirmed, 16 negative and 23 pending

Vaccination status among suspected cases

- Vaccinated - 50 (37%)
- Not vaccinated - 63 (46%)
- Unknown - 23 (17%)

Vaccination status among confirmed

- Vaccinated - 15 (54%)
- Not vaccinated - 9 (32%)
- Unknown - 4 (15%)

Age distribution among suspected cases

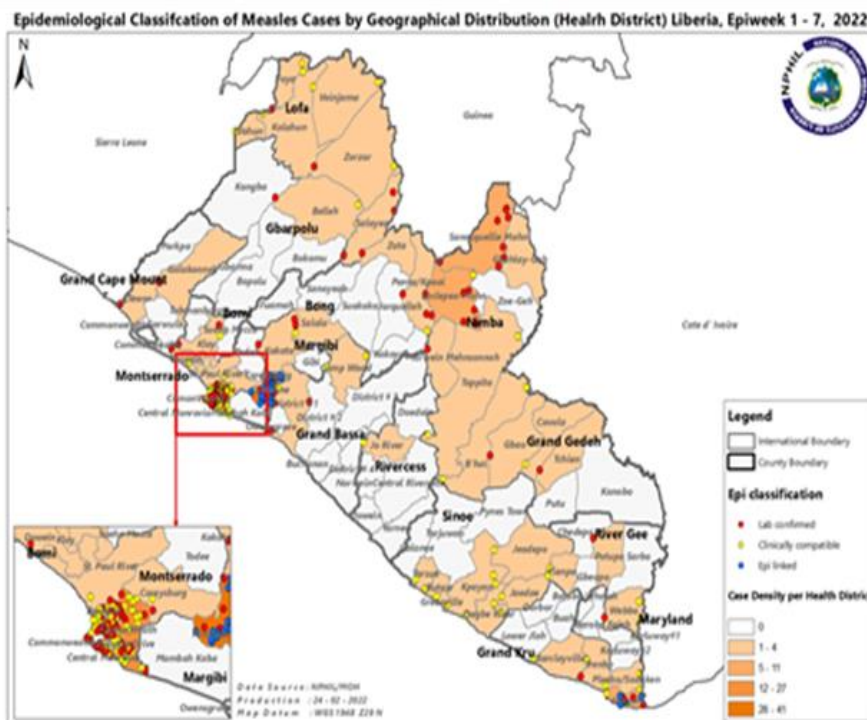
- < 5 years: 88 (65%)
- ≥ 5 years: 48 (35%)

Proportion of samples collected: 64% (294/461)

Proportion of samples tested: 73% (233/294)

Cumulatively, four hundred sixty-one (461) suspected cases have been reported

- Laboratory confirmed: 131, clinically compatible: 136, epidemiologically linked: 92, non-measles discarded cases: 102



Outbreak

Montserrado County: Commonwealth, Bushrod, Somalia Drive, and Central Monrovia Districts (Situation update as of the 14th December 2021-February 27, 2022)

- Eighty-three (83) new cases recorded from Central Monrovia (20), Commonwealth (16), Bushrod, (33), Somalia Drive (9), and St. Paul (5)
- A total of 264 cases line listed up to date, Bushrod (79), Commonwealth (73), and Somalia Drive (69), Central Monrovia (38), St. Paul (5) of which 71 laboratories confirmed
- All reported cases are undergoing treatment
- Median age 4 years (range: 8 months - 31 years)
- Death in confirmed - 1
- CFR is (2%)

Vaccination status among lab confirmed:

- Vaccinated by record - 34% (24/71)
- Vaccinated by history - 4% (3/71)
- Not vaccinated - 54% (38/71)
- Unknown - 8% (6/71)



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Bong County: Zota and Panta Districts (Situation update as of the 18th January – 27th February 2022)

- No new case recorded
- A total of 49 cases line listed of which 4 laboratories confirmed Zota (27), and Panta (22)
- All reported cases are undergoing treatment
- Median age 4 (range 1- 11 years)

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 February 1-8, 2022)

- One new confirmed case reported
- A total of twenty-eight (38) cases recorded
- Nine (9) laboratory confirmed
- All reported cases are undergoing treatment
- Median age 3 range (range 1- 12 years)

Vaccination status in lab confirmed:

- Vaccinated 89% (8/9)
- Not vaccinated 11% (1/9)

Nimba County: Saclepea-Mah, Sanniquellie-Mah, and Gbehlay Geh Districts (Situation update as of the 26th January - 21st February, 2022)

- Twenty-six (26) new cases reported
- Total of sixty-seven (67) cases line listed; Saclepea-Mah (31), Sanniquellie-Mah (22), and Gbehlay Geh (14)
- Eighteen (18) laboratory confirmed
- All reported cases are undergoing treatment
- Median age 5 (range 7 months - 20years)

Vaccination status in lab confirmed:

- Vaccinated by record 44% (8/18)
- Vaccinated by history 11% (2/18)
- Not vaccinated 33% (6/18)
- Unknown-11% (2/18)

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

- Thirteen (13) new cases recorded
- Total of 23 cases recorded line listed
- Seven (9) laboratory confirmed
- All reported cases are undergoing treatment
- Median Age 4, (range 2-18 years)



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Vaccination status in lab confirmed:

- Unknown-100% (9/9)

Public Health Actions

- Community sensitization on utilization of vaccination services
- Case investigation, active case search and line listing ongoing
- Case management of cases ongoing

Challenges

- Limited logistical and operational support for response activities
- Stock out of measles vaccines and vitamin A, in some counties (Bong and Margibi Counties)
- Delay in specimen's transportation and feedback
- Limited medical supplies for case management

Acute Flaccid Paralysis (AFP)

- Six (6) cases reported from Lofa (3), Nimba (2), and River Gee (1) Counties
- Specimens collected, shipped and pending testing
- Cumulatively, twenty-one (21) AFP cases have been reported

Neonatal Tetanus

- Two (2) cases reported from Rivercess County
- Cumulatively, ten (10) clinically diagnosed cases reported

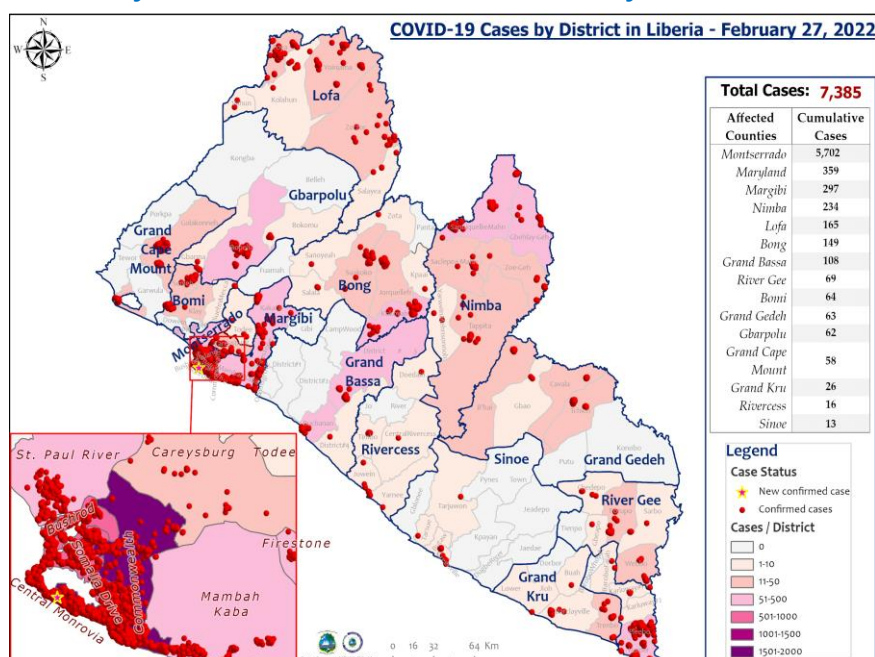
Influenza-Like Illnesses

Coronavirus Disease (COVID-19)

Outbreak

- Twenty-four (24) new confirmed cases were reported from Montserrado (22), Nimba (1), and Grand Bassa (1) Counties
 - Seven (7) contacts are being followed up in Montserrado-2, and Nimba-5 Counties
- A total of five hundred twenty-eight (528) confirmed cases have been reported since epi week 1
- Cumulatively, seven thousand three hundred eighty-five (7,385) confirmed cases recorded including 294 deaths and 601 healthcare workers reported with 17,621 contacts generated

Figure 2: Geographical Distribution of Laboratory Confirmed COVID-19 Cases by Health Districts, Liberia, as of February 27, 2022





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Public Health Actions

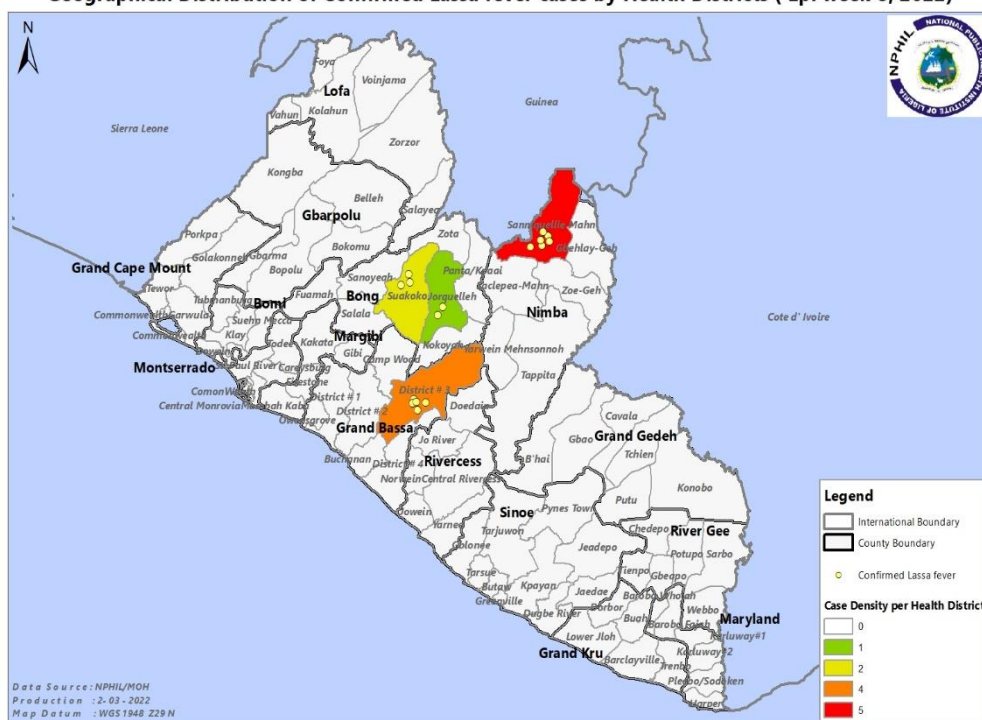
- Weekly IMS coordination meeting on-going.
- Surveillance activities including active case search, contact tracing and case investigation on-going in affected counties using WHO interim guidelines
- Reinforcing hand washing in all public areas (markets, health facilities, public offices, checkpoints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

Viral Hemorrhagic Diseases

Lassa fever

- Five (5) suspected case reported from Bong (3), Nimba (1), and Montserrado (1) counties
- 5 specimens collected and tested: 1 positive and 4 negative
- Cumulatively, thirty-eight (38) suspected cases reported including 7 deaths
- Proportion of suspected cases with sample collected 100% (38/38)
 - Proportion of suspected cases with sample tested 100% (38/38)
 - Seventeen (17) confirmed including 5 deaths CFR 29%

Geographical Distribution of Confirmed Lassa fever cases by Health Districts (Epi week 8, 2022)



Outbreak

Three Counties Currently on Outbreak: Grand Bassa, Nimba, and Bong

Grand Bassa County: District 3 A&B (Countdown begin)

- No new suspected or confirmed case reported
- Confirmed case discharged February 18, 2022. No suspected or confirm case in admission.
- Total confirmed cases five. CFR 20% (n=1/5)
- A total of 24 contacts generated. All 24 contacts were family and community members and have completed 21 days' follow-up.

Nimba County: Sanniquellie-Mah District (Countdown begin)

- No new suspected or confirmed case reported
- Confirmed case discharged February 2022. No suspected or confirm case in admission
- Total confirmed cases seven. CFR 57% (n=4/7)
- A total of 104 contacts generated. All 104 contacts (47 HCWs & 57 family) completed 21 days' follow-up



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Bong County: Jorquelleh & Suakoko Districts

- ✎ No new suspected or confirmed case reported
- ✎ One confirmed case still in admission undergoing treatment at C.B Dunbar hospital and is improving. Case refuses to take ribavirin treatment. Second sample was collected March 2, 2022 for testing
- ✎ Total confirmed cases seven. CFR 0% (all cases alive).
- ✎ A total 104 contacts generated from epi-week 1-8, 2022 of which all contacts completed 21 days' follow-up.

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, seventeen (17) suspected cases reported
 - Proportion of suspected cases with sample collected 88% (15/17)
 - Proportion of suspected cases with sample tested 53% (8/15)

Diarrheal Diseases

Acute Bloody Diarrhea (Suspected Shigellosis)

- ✎ Fourteen (14) suspected cases reported from Sinoe (4), Lofa (3), Nimba (2), Maryland (2), Grand Bassa (1), Grand Gedeh (1), and Margibi (1) Counties
 - Seven (7) specimens collected and pending testing
- ✎ Cumulatively, one hundred twenty-one (121) suspected shigellosis cases reported with 44 specimens collected: 20 negative, 1 positive, and 15 pending

Severe Acute Watery Diarrhea (Suspected Cholera)

- ✎ Seven (7) suspected cases reported from Maryland (2), Lofa (2), Bong (1), Nimba (1), and Grand Bassa (1) Counties
 - Four (4) specimens collected and pending testing
- ✎ Cumulatively, sixty-eight (68) suspected cholera cases reported with 34 specimens collected and 12 tested negative

Other Reportable Diseases

Animal bite (Human Exposure to Rabies)

- ✎ Sixty-one (61) animal bite cases reported from Montserrado (21), Grand Bassa (7), Nimba (6), Grand Kru (6), Margibi (5), Rivercess (4), Sinoe (3), Lofa (2), Grand Gedeh (2), Maryland (2), Bong (1), Grand Cape Mount (1), and Bomi (1) Counties
- ✎ Dog bites accounts for 100%
- ✎ Cumulatively, three hundred seven (387) animal bite cases reported

Public Health Actions

- ✎ 1-4 doses of post exposure prophylaxis administered to about 15% (9/61) persons
- ✎ Cumulatively, 1-4 doses of post exposure prophylaxis were administered to about 17% (65/387)



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Meningitis

- 👉 Zero suspected case reported
- 👉 Cumulatively, eleven (11) suspected cases reported including one confirmed

Monkeypox

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

Events of Public Health Importance

Maternal Mortality

- 👉 Six (6) deaths reported from Montserrado (3), Nimba (2), and Bong (1) Counties
 - Causes of death: PPH (2), sepsis (1), obstructed labor (1) and two pending investigation
 - All deaths occurred at the health facility
- 👉 Cumulatively, forty-seven (47) deaths reported
 - Proportion of deaths reviewed 34% (16/47)
 - Proportion of community deaths 19% (9/47)
 - Proportion of deaths reviewed in the community 44.4% (4/9)

Neonatal Mortality

- 👉 Sixteen (16) deaths reported from Montserrado (7), Nimba (2), Maryland (2), Bong (2), Lofa (1), Grand Kru (1), and Gbarpolu (1) Counties
- 👉 Causes of deaths: birth asphyxia (8), Preterm (2), sepsis (4), Bowel obstruction (1), and one under investigation
- 👉 Fifteen (15) deaths occurred at the health facility and one in the community
- 👉 Cumulatively: one hundred nine (109) deaths have been reported
 - Proportion of deaths reviewed 10.9% (10/109)
 - Proportion of community deaths 4% (4/109)
 - Proportion of deaths reviewed from the community 20% (2/10)

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

- 👉 Four (4) cases reported from Bomi (3), and Grand Gedeh (1) Counties
- 👉 Cumulatively: fifty-one (51) events reported with 84% (43/51) related to COVID-19
 - Proportion of J&J - 80% (41/51)
 - Proportion of AstraZeneca - 4% (2/51)
 - Proportion of other related events -16% (8/51)

Public Health Actions

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

Unexplained death

- 👉 Zero case reported
- 👉 No specimen was collected



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Border Surveillance Update

- ✎ A total of 10,130 travelers recorded for the week with incoming travelers accounting for 51% (5132/10,130)
- ✎ Two travelers reactive for COVID-19.

Table2: Border activity at the PoE for Incoming and Outgoing Travelers, Liberia, Epi week 8, 2022

Point of Entry	Weekly total	Arrival	Departure	Yellow Book Issued	Yellow Book Damage	Card Replaced	Travelers Vaccinated	Alerts detected/ Verified	COVID-19 Reactive	Fully vaccinated for COVID-19
Airport	James S. Paynes	27	15	12	0	0	0	0	0	2
	Robert Int'l Airport	3047	1482	1565	31	31	0	0	0	3043
Seaport	Freeport of Monrovia	130	65	65	0	0	0	0	0	65
	Harper	0	0	0	0	0	0	0	0	0
	Buchanan Port	88	44	44	0	0	0	0	0	44
Land Crossing	Bo Water Side	525	241	284	0	0	0	0	0	62
	Ganta	0	0	0	0	0	0	0	0	0
	Yekepa	0	0	0	0	0	0	0	0	0
	Loguatu	0	0	0	0	0	0	0	0	0
	Yeala	824	416	408	0	0	0	0	0	0
	Kpazagizzia	572	295	277	0	0	0	0	0	0
	Safedu	582	270	312	0	0	0	0	0	0
	Konadu	591	376	215	0	0	0	0	0	0
	Bolongoidu	781	448	333	0	0	0	0	0	0
	Lawalazu	403	180	223	0	0	0	0	0	0
	Foya Tengia	743	363	380	0	0	0	0	0	0
	Sorlumba	477	252	225	0	0	0	0	0	0
	Mendicoma	918	513	405	0	0	0	0	0	0
	Worsonga	422	172	250	0	0	0	0	0	0
Total travelers		10,130	5,132	4,998	0	31	0	0	0	3216

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
 - 3rd edition IDSR training ongoing in Bomi County including 54 participants from 27 health facility
- ✎ Operational Activity
 - Continued support for operational activities ongoing

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



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Case Management

- PEP administered to four 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	3	0	0	0	2	0	1	0	6	21	0	
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Measles	A	0	0	2	2	1	4	1	4	4	13	83	18	0	2	2	136	461	131	
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	
	Neonatal Tetanus	A	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	3	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	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0
		D	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	17	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	3	0	0	0	0	0	0	0	0	1	1	0	0	0	5	38	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	0	0	0	22	1	0	0	0	24	528	7385	
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	294	
Diarrheal Diseases	Acute Bloody Diarrhoea (Shigellosis)	A	0	0	0	1	0	1	0	2	1	2	0	2	0	0	4	13	121	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	1	0	0	0	2	0	2	0	1	0	0	0	7	68	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	1	0	0	0	0	0	0	0	0	3	2	0	0	0	6	47		
	Neonatal Mortality	D	0	2	1	0	0	0	1	1	0	2	7	2		0	0	16	109		
	Adverse Events Following Immunization (AEFI)	A	3	0	0	0	0	1	0	0	0	0	0	0	0	0	0	4	51	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	
		D	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	1	1	0	7	1	2	6	2	5	2	21	6	4	0	3	61	387	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	11	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			4	8	3	12	3	8	8	14	10	21	137	35	6	3	9	281	1893	7827	

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

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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.