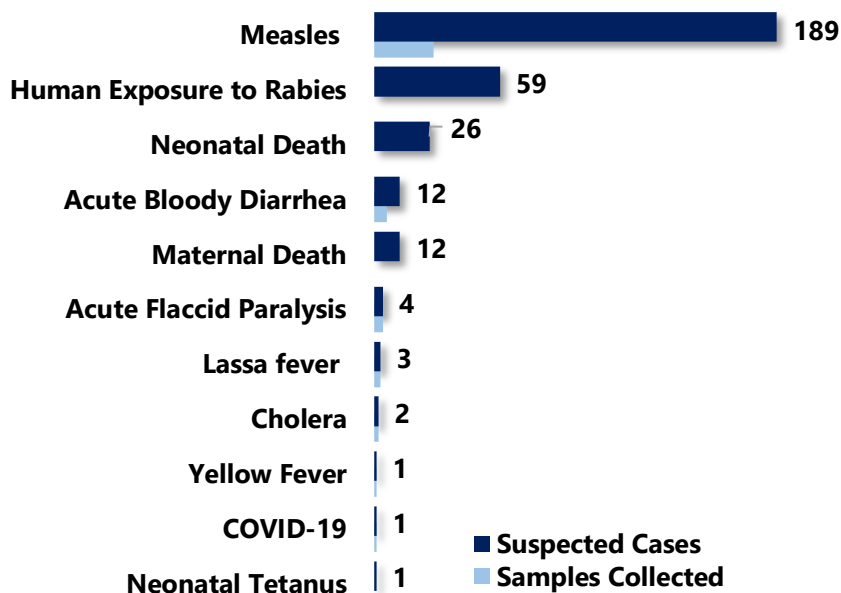


Highlights

Figure 1: Public Health Events Reported during the week



Keynotes and Events of Public Health Significance

- ♦ A total of **310** events of public health importance including **38** deaths were reported
- ♦ Completeness and timeliness of health facility reports were both **98%** respectively
- ♦ **Ongoing Lassa fever** outbreak in three Counties
- ♦ **Ongoing Measles** outbreak in eleven counties
- ♦ **One new confirmed COVID-19 case** reported from one county

*Adverse Event Following Immunization/Adverse Drug Reaction

Reporting Coverage

Table 1: Health Facility Weekly DSR Reporting Coverage, Liberia, Epi Week 11, 2022

County	Expected Report from Health Facility	Reports Received	Received on Time	Completeness (%)	Timeliness (%)
Bomi	26	26	26	100	100
Bong	57	51	51	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	99	99
Nimba	91	88	88	97	97
Rivercess	21	21	21	100	100
River Gee	20	20	20	100	100
Sinoe	37	37	37	100	100
Liberia	862	851	851	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

851 (98%)
Health facilities reported IDSR data

93 (100%)
Health districts reported IDSR data

851 (98%)
Health facilities reported timely IDSR data

Vaccine Preventable Diseases

Measles

One hundred eighty-nine (189) suspected cases were reported from Montserrado (116), Nimba (31), Grand Bassa (11), Maryland (6), Grand Kru (5), Lofa (5), Grand Gedeh (3), Bomi (3), Bong (3), River Gee (3), and Rivercess (3) counties

Twenty-eight (28) specimens collected and pending testing:

Vaccination status among suspected cases

- Vaccinated - 66 (35%)
- Not vaccinated- 109 (58%)
- Unknown - 14 (7%)

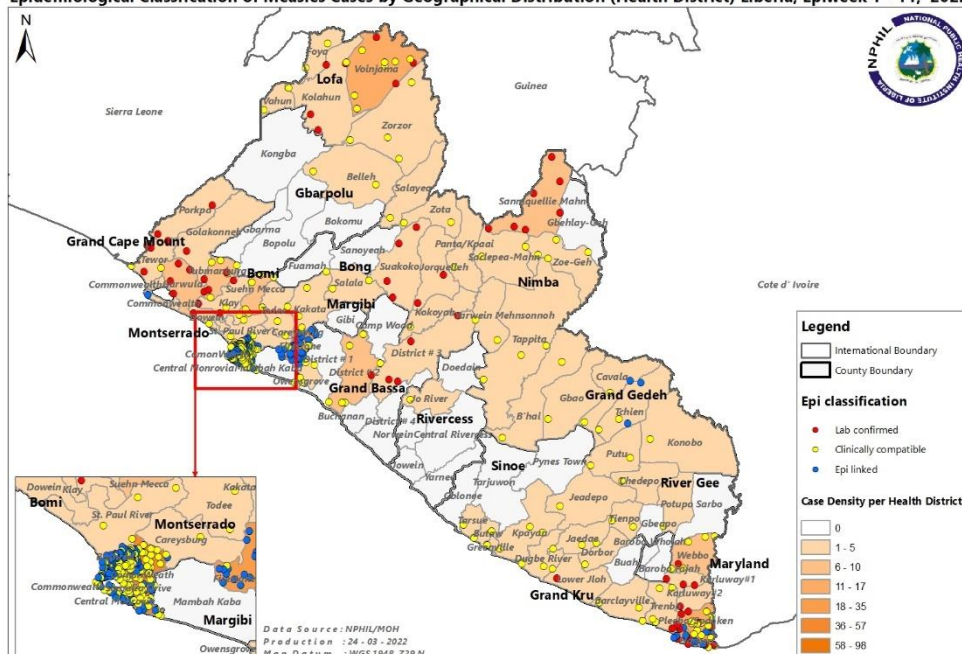
Age distribution among suspected cases

- < 5 years: 112 (59%)
- ≥ 5 years: 77 (41%)

Cumulatively, nine hundred sixty-one (961) suspected cases have been reported

- Confirmed: 801
 - ✓ Laboratory confirmed: 27% (213/801)
 - ✓ Clinically compatible: 31% (249/801)
 - ✓ Epidemiologically linked: 42% (339/801)
- Non-measles discarded cases: 17% (160/961)
- Proportion of samples collected: 49% (467/961)
- Proportion of samples tested: 80% (373/467)

Epidemiological Classification of Measles Cases by Geographical Distribution (Health District) Liberia, Epiweek 1 - 11, 2022



Outbreak

Montserrado County: Commonwealth, Bushrod, Somalia Drive, St. Paul and Central Monrovia Districts

(Situation update as of the 14th December 2021-March 20, 2022)

- One hundred fourteen (114) new cases recorded from Bushrod (54), Commonwealth (32), Careysburg (1), Central Monrovia (12), St. Paul (3), and Somalia Drive (12)
- A total of 479 cases line listed up to date
- All reported cases are undergoing treatment
- Median age 6 years (range 1 day-48 years)
- Death in confirmed -1
- CFR is (1%)

Vaccination status among lab confirmed:

- Vaccinated by record- 41% (39/95)
- Not vaccinated – 43% (41/95)
- Unknown - 16% (15/95)



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Epi-week 11 (March 14-20, 2022)

Bong County: Suakoko, Zota, and Panta Districts (Situation update as of the 28th February – 20 March 2022)

- No new case recorded
- A total of 53 cases line listed
- Eight (8) laboratories confirmed
- All reported cases are undergoing treatment
- Median age 3 (range 1- 36 years)

Vaccination status among lab confirmed:

- Vaccinated - 25% (2/8)
- Not vaccinated - 50% (4/8)
- Unknown - 25% (2/8)

Margibi County: Firestone District (Situation update as of February 28- March 20, 2022)

- One new case reported
- A total of fifty- eight (58) cases recorded
- Fifteen (15) laboratory confirmed
- All reported cases are undergoing treatment
- Median age 3 range (range 1- 36 years)

Vaccination status in lab confirmed:

- Vaccinated 87% (13/15)
- Not vaccinated 7% (1/15)
- Unknown 7% (1/15)

Nimba County: Saclepea-Mah, Sanniquellie-Mah, Gbehlay Geh and Zoe-Geh Districts (Situation update as of the 26th January – 20 March 2022)

- Thirty-one (31) new cases reported
- A total of One hundred thirty-seven (137) cases line listed
- Twenty-two (22) laboratory confirmed
- All reported cases are undergoing treatment
- Median age 6 (range 2 months- 45years)

Vaccination status in lab confirmed:

- Vaccinated 45% (10/22)
- Not vaccinated 32% (7/22)
- Unknown-23% (5/22)

Maryland County: Harper and Pleebo Districts (Situation update as of the 31st January – 20 March 2022)

- Five (5) new cases recorded
- A total of 58 cases recorded line listed
- Fifteen (15) laboratory confirmed
- All reported cases are undergoing treatment
- Median Age 7 (range 1-48 years)



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Epi-week 11 (March 14-20, 2022)



Vaccination status in lab confirmed:

- Vaccinated - 7% (1/15)
- Unknown - 93% (14/15)

Bomi County: Suehn Mecca, Senjeh, and Klay Districts (Situation update as of March 7-20, 2022)

- Three (3) new cases recorded
- A total of 27 cases line listed
- Eight (8) laboratory confirmed
- Median age 10 (range 2-35 years)

Vaccination status in lab confirmed:

- Vaccinated - 50% (4/8)
- Unknown - 50% (4/8)

Grand Bassa County: District #2 (Situation update as of March 10-20, 2022)

- No new case recorded
- A total of 12 cases recorded line listed
- One (1) laboratory confirmed

Vaccination status in lab confirmed:

- Not Vaccinated - 100% (1/1)

Cape Mount County: Gola Konneh (Situation update as of March 10-20, 2022)

- No new case recorded
- A total of 10 cases recorded line listed
- Six (6) laboratory confirmed

Vaccination status in lab confirmed:

- Vaccinated - 83% (5/6)

Lofa County: Voinjama and Salayea (Situation update as of the March 7, 2022)

- Five (5) new case recorded
- A total of 15 cases line listed
- Three (3) laboratory confirmed

Vaccination status in lab confirmed:

- Vaccinated - 100% (3/3)

Grand Kru: Trehn District (Situation update as of March 14-20, 2022)

- Six (6) new suspected cases reported
- A total of 6 cases line listed

Rivercess: (Situation update as of March 16-20, 2020)

Epi-week 11 (March 14-20, 2022)

- Five (5) suspected case reported from Joe Rive
- A total 5 suspected cases reported

Public Health Actions

- ☞ Community sensitization ongoing
- ☞ 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

Influenza-Like Illnesses

Coronavirus Disease (COVID-19)

Outbreak

- ☞ One (1) new case was reported from Montserrado County.

- Four (4) contacts are being followed up in Montserrado-3, and Nimba-1 Counties

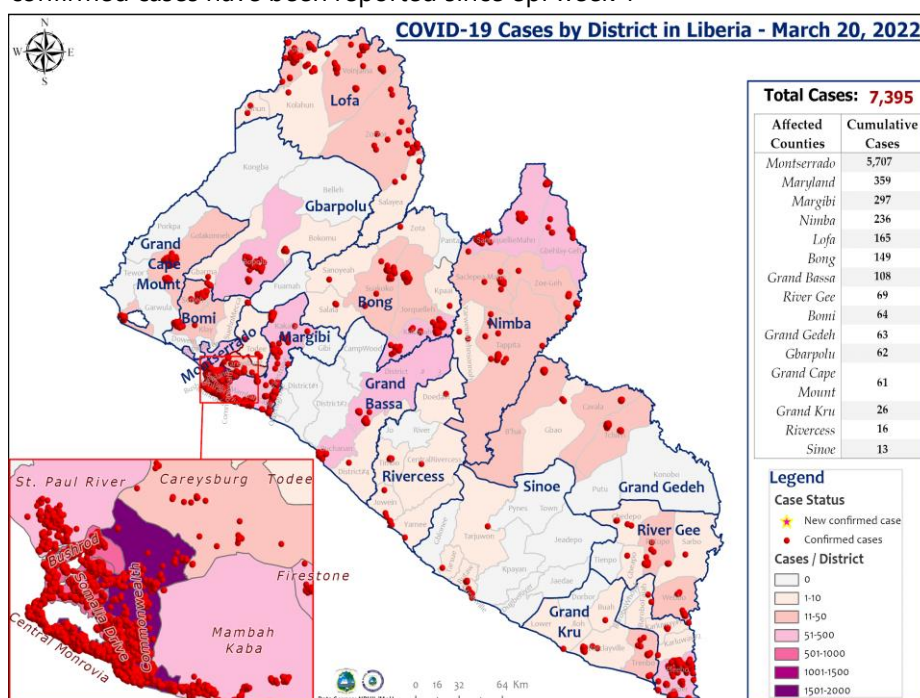
- ☞ A total of five hundred fifty-five (556) confirmed cases have been reported since epi week 1

- ☞ Cumulatively, seven thousand three hundred ninety-five (7,395) confirmed cases recorded including 294 deaths 601 healthcare workers reported with 17,635 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 March 20, 2022



Acute Flaccid Paralysis (AFP)

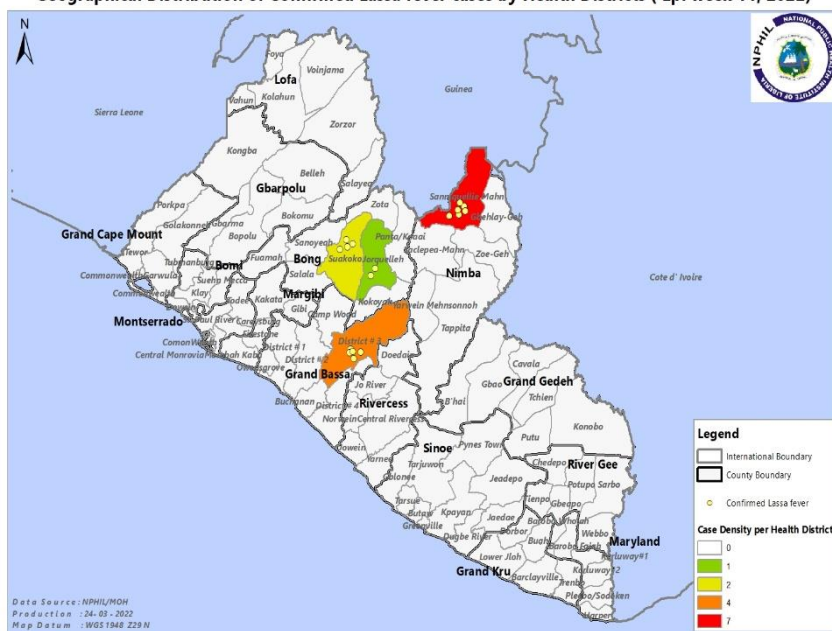
- 👉 Four (4) cases reported from Grand Gedeh (2), Nimba (1), and Bong (1)
- 👉 Two shipped from Bong and Nimba, 2 pending shipment from Grand Gedeh
- 👉 Cumulatively, twenty-five (25) AFP cases have been reported

Viral Hemorrhagic Diseases

Lassa fever

- 👉 Three (3) suspected cases reported from Bong County
- 👉 Three (3) specimens collected and tested negative
- 👉 Cumulatively, forty-nine (49) suspected cases reported including 7 deaths
- 👉 Proportion of suspected cases with sample collected 100% (49/49)
 - Proportion of suspected cases with sample tested 100% (49/49)
 - Nineteen (19) confirmed including 5 deaths CFR 26%

Geographical Distribution of Confirmed Lassa fever cases by Health Districts (Epi week 11, 2022)



Outbreak

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

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

- 👉 No new suspected case reported
- 👉 A total of 32 days gone since the last confirmed case was discharged from admission.
- 👉 Zero (0) case
- 👉 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 case reported
- 👉 A total of 21 days gone by since last confirmed case was discharged from admission
- 👉 Zero (0) case
- 👉 Total confirmed cases seven (7). CFR 57% (n=4/7)
- 👉 A total of 104 contacts were generated. All 104 contacts (47 HCWs & 57 families) completed 21 days' follow-up

Bong County: Jorquellieh & Suakoko Districts

Epi-week 11 (March 14-20, 2022)

- ✎ No new confirmed cases reported
- ✎ Three suspected cases reported for epi-week 11
- ✎ Total confirmed cases seven. CFR 14%
- ✎ A total of 70 contacts were generated from epi-week 1-11, 2022 of which 48 contacts completed 21 days' follow-up and 21 contacts still under follow-up (8 HCWs & 13 families).

Public Health Actions

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

Yellow fever

- ✎ One (1) suspected case reported from Sinoe County
 - One (1) specimen collected and pending testing
- ✎ Cumulatively, twenty-six (26) suspected cases reported
 - Proportion of suspected cases with sample collected 92% (24/26)
 - Proportion of suspected cases with sample tested 33% (8/24)

Diarrheal Diseases

Acute Bloody Diarrhea (Suspected Shigellosis)

- ✎ Twelve (12) suspected cases reported from Grand Gedeh (5), Sinoe (3), Nimba (2), Bomi (1), and Lofa (1) Counties
 - Six (6) specimens collected and pending testing
- ✎ Cumulatively, one hundred sixty-two (162) suspected shigellosis cases reported with fifty-nine (59) specimens collected: 35 negative, 1 positive, 23 pending

Severe Acute Watery Diarrhea (Suspected Cholera)

- ✎ Two (2) suspected cases reported from Grand Kru and River Gee Counties
 - Two (2) specimens collected and pending testing
- ✎ Cumulatively, eighty-four (84) suspected cholera cases reported with 46 specimens collected and 15 tested negative

Other Reportable Diseases

Animal bite (Human Exposure to Rabies)

- ✎ Fifty-nine (59) animal bite cases reported Montserrado (16), Maryland (8), Grand Kru (6), Grand Bassa (6), Lofa (5), Margibi (4), Nimba (3), River Gee (3), Bong (3), Grand Gedeh (3), Grand Cape Mount (1) and Rivercess (1) Counties
- ✎ Dog bites account for 100%
- ✎ Cumulatively, five hundred forty (540) animal bite cases reported

Public Health Actions

- ✎ 1-4 doses of post exposure prophylaxis administered to about 10% (6/59) persons
- ✎ Cumulatively, 1-4 doses of post exposure prophylaxis were administered to about 16% (85/540)

Meningitis

- ✎ Zero suspected case reported

- 👉 No specimen was collected
- 👉 Cumulatively, twelve (12) suspected cases reported including one confirmed

Monkeypox

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

Events of Public Health Importance

Maternal Mortality

- 👉 Twelve (12) deaths reported from Montserrado (7), Grand Bassa (1), Bomi (1), Gbarpolu (1), Grand Gedeh (1), and Rivercess (1) Counties
 - Causes of death: PPH (4), Sepsis (1), Anti-partum hemorrhage (1), Eclampsia (3), and three under investigation
 - Eleven deaths occurred at the health facility and one community
- 👉 Cumulatively, sixty-three (73) deaths reported
 - The proportion of deaths reviewed was - 34% (16/47)
 - The proportion of community deaths - 16% (12/73)
 - The proportion of deaths reviewed in the community was - 44% (4/9)

Neonatal Mortality

- 👉 Twenty-six (26) deaths reported from Montserrado (22), Grand Gedeh (2), Grand Kru (1), and Maryland (1) Counties
- 👉 Causes of deaths: birth asphyxia (14), sepsis (9), preterm (1), Jaundice (1), and pending review
- 👉 All deaths occurred at the health facility
- 👉 Cumulatively: one hundred sixty- nine (169) deaths have been reported
 - The proportion of deaths reviewed - 6% (10/169)
 - The Proportion of community deaths - 4% (7/169)
 - The proportion of deaths reviewed from the community - 20% (2/10)

Neonatal Tetanus

- 👉 One case reported from Lofa
- 👉 Cumulatively, fifteen (15) clinically diagnosed cases reported

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

- 👉 Zero case reported
- 👉 Cumulatively: fifty-five (55) events reported with 80% (44/55) related to COVID-19
 - Proportion of J&J - 76% (42/55)
 - Proportion of AstraZeneca - 4% (2/55)
 - Proportion of other related events - 20% (11/55)

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 (0) case reported

👉 No specimen was collected

Border Surveillance Update

👉 A total of 1,585 travelers recorded for the week with incoming travelers accounting for 49% (775/1585)

👉 None travelers reactive for COVID-19

Table2: Border activity at the PoE for Incoming and Outgoing Travelers, Liberia, Epi week 10 2022

Type of Ports	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	84	34	50	0	0	0	0	0	0	3
	Robert Int'l Airport	0	0	0	0	0	0	0	0	0	0
Seaport	Freeport of Monrovia	406	203	203	0	0	0	0	0	0	203
	Harper	0	0	0	0	0	0	0	0	0	0
	Buchanan Port	0	0	0	0	0	0	0	0	0	0
Land Crossing	Bo Water Side	706	353	353	54	0	0	54	0	0	33
	Ganta	389	185	204	0	0	0	0	0	0	0
	Yekepa	0	0	0	0	0	0	0	0	0	0
	Loguatu	0	0	0	0	0	0	0	0	0	0
	Yeala	0	0	0	0	0	0	0	0	0	0
	Kpazagizzia	0	0	0	0	0	0	0	0	0	0
	Safedu	0	0	0	0	0	0	0	0	0	0
	Konadu	0	0	0	0	0	0	0	0	0	0
	Bolongoidu	0	0	0	0	0	0	0	0	0	0
	Lawalazu	0	0	0	0	0	0	0	0	0	0
	Foya Tengia	0	0	0	0	0	0	0	0	0	0
	Sorlumba	0	0	0	0	0	0	0	0	0	0
	Mendicoma	0	0	0	0	0	0	0	0	0	0
	Worsonga	0	0	0	0	0	0	0	0	0	0
Total travelers		1,585	775	810	0	0	0	54	0	0	0

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



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

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	1	0	0	0	2	0	0	0	0	0	1	0	0	0	4	25	0
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Measles	A	3	3	0	11	0	3	5	5	0	6	116	31	3	3	0	189	961	213
		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	1	0	0	0	0	0	0	0	1	15	0
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Yellow fever	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	26	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	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	49	19
		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	0	0	0	0	0	0	0	0	0	0	0	0	0	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	1	0	0	0	0	5	0	1	0	0	0	2	0	0	3	12	162	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	0	0	0	0	0	1	0	0	0	0	0	0	1	0	2	84	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	1	0	1	1	0	1	0	0	0	7	0	0	1	0	0	12	73	
	Neonatal Mortality	D	0	0	0	0	0	2	1	0	0	1	22	0	0	0	0	26	169	
	Adverse Events Following Immunization (AEFI)	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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
		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	0	3	0	6	1	3	6	5	4	8	16	3	1	3	0	59	540	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	12	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
		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			5	10	1	18	1	16	13	12	4	22	154	37	5	7	4	309	2648	7598

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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A. Coker
M. Tegli
G. B. Williams
S. K. Zayzay
L. W. Colee
T. L. Hall
S. L. Flomo
M. S. Quiah
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L. K. Seepoe
J. O. Abel
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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.