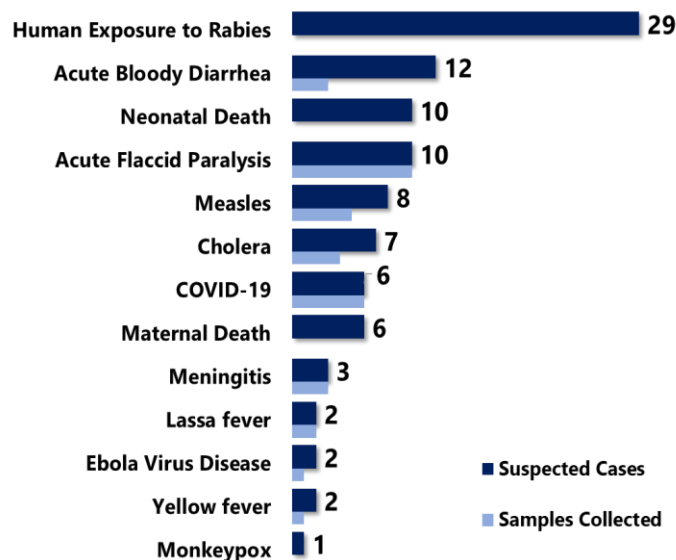


Highlights

Figure 1: Public Health Events Reported during this week



Keynotes and Events of Public Health Significance

- ♦ A total of **98** events of public health importance including **15** deaths were reported
- ♦ Completeness and timeliness of health facility reports were both **99%**
- ♦ **Ongoing Lassa fever** outbreak in Grand Bassa County
- ♦ **Ongoing EVD preparedness engagement** initiated at all level
- ♦ **Six** new confirmed COVID-19 cases recorded from three counties

Reporting Coverage

Table 1: Health Facility Weekly DSR Reporting Coverage, Liberia, Epi week 14, 2021

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	15	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	19	19	19	100	100
Lofa	61	61	61	100	100
Margibi	55	55	55	100	100
Maryland	25	27	27	100	100
Montserrado	367	365	365	100	100
Nimba	91	91	91	100	100
Rivercess	20	20	20	100	100
River Gee	20	20	20	100	100
Sinoe	37	37	37	100	100
Liberia	888	887	887	99	99

887(99%)
Health
facilities
reported
IDSR data

92(99%)
Health
districts
reported
IDSR data

887(99%)
Health
facilities
reported
timely IDSR
data

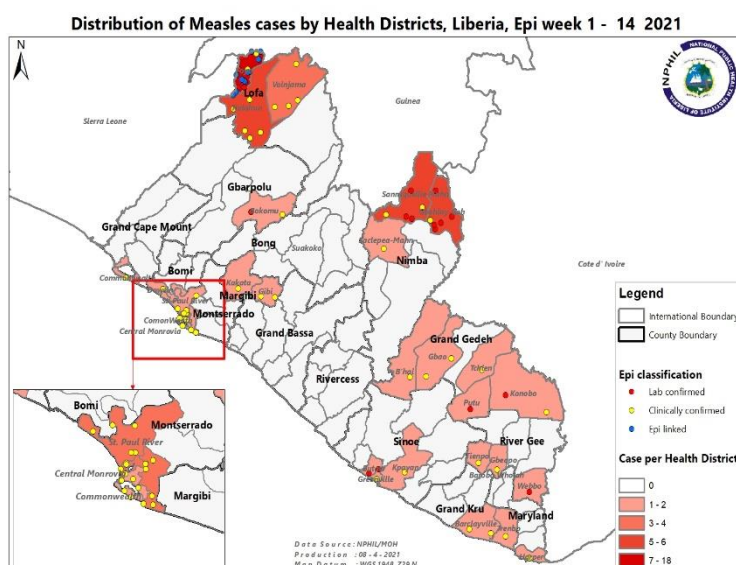
- ♦ The national target for weekly IDSR reporting is 80%. Health facility timeliness is monitored at health district level
- ♦ Bomi county submitted weekly IDSR report late to the national level

Legend: ≥80 <80

Vaccine Preventable Diseases

Measles

- ✍ Eight (8) suspected cases were reported from Grand Kru (2), Nimba (2), and one each from Lofa, Grand Cape Mount, Montserrado and, Bomi Counties
 - Five (5) specimens were collected and pending laboratory confirmation
- ✍ Vaccination status among suspected cases
 - Vaccinated: 6 (80%)
 - Not vaccinated: 2 (20%)
- ✍ Age distribution among suspected cases
 - <5 years: 5 (63%)
 - ≥5 years: 3 (37%)
- ✍ Cumulatively, since Epi week one, one hundred and six (106) suspected cases have been reported
- ✍ Epi-classification is as follows: 71 confirmed (10 lab-confirmed, 49 clinically confirmed, 12 epi-linked) and 35 negatives



Acute Flaccid Paralysis

- ✍ Ten (10) cases were reported from Montserrado (4), and one each from Grand Cape Mount, Grand Kru, Lofa, Nimba, River Gee and Bong Counties
- ✍ Ten specimens were collected, shipped and pending testing
- ✍ Cumulatively, since Epi week one, thirty-six (36) cases have been reported

Neonatal Tetanus

- ✍ Zero cases were reported
- ✍ Cumulatively, since Epi week one, five (5) cases have been reported

Influenza-Like Illnesses

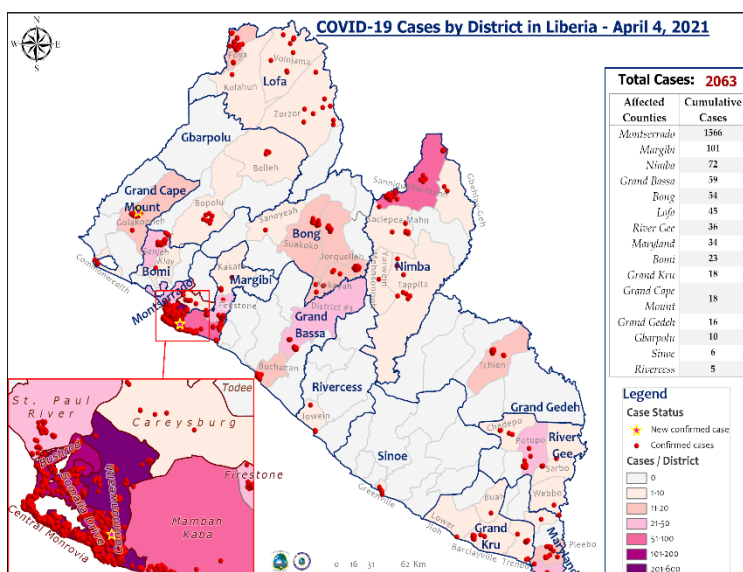
Coronavirus Disease (COVID-19)

Outbreak

- ✍ Six (6) new confirmed cases were reported from Montserrado (4), Margibi (1) and Grand Cape Mount (1) Counties with male accounting for 50 %
- ✍ Since Epi week one, a total of two hundred forty-five (245) confirmed cases have been reported
- ✍ Cumulatively, two thousand sixty-three (2,063) confirmed cases recorded including 85 deaths

Public Health Actions

- ✍ Daily 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

- ✎ Two (2) suspected cases were reported from Grand Bassa and Bong Counties
- ✎ Specimens were collected and tested negative
- ✎ Cumulatively, since Epi week one, twenty-nine (29*) suspected cases have been reported including six (6) deaths
 - 2 positive, 21 negative and 6 specimens not collected
 - Proportion of suspected cases with sample collected 79% (23/29)
 - Proportion of suspected cases with sample tested 79% (23/29)

* Six suspected cases have been delisted due to lack of specimen collection: Bong (5) and Grand Bassa (1) Counties

Outbreak

District 3A&B, Grand Bassa County

- ✎ No new confirmed case reported this week
- ✎ The confirmed case, a 38-year-old female and a resident of MIE Field, Compound # 3, presented with symptoms of red eyes, weakness, poor appetite, sore throat, vomiting, coughing on 1st March 2021 and was unresponsive to treatment. Based on the suspicion for Lassa, the case patient was admitted and isolated at LAC hospital on 4th March. Specimen was collected on 6th March 2021 and tested positive on 8th March 2021. The case patient expired on 7th March while awaiting the lab results
- ✎ All 14 contacts were line listed have completed 21 days follow-up

Public Health Actions

- ✎ IPC assessment conducted to reinforce IPC practices
- ✎ Active case search and community engagement ongoing

Yellow fever

- ✎ Two suspected cases were reported from Grand Kru and Gbarpolu Counties
- ✎ One specimen was collected and are pending testing
- ✎ Cumulatively since Epi week one, twenty-seven (27) suspected cases have been reported with 17 negative, 8 pending testing and 2 specimens were not collected
 - Proportion of suspected case with sample collected 93% (25/27)
 - Proportion of suspected case with sample tested 63% (17/27)

Monkeypox

- ✎ One suspected case was reported from: Nimba county
- ✎ No specimen was collected during the reporting
- ✎ Cumulatively since Epi week one, one (1) suspected case reported

Ebola Virus Disease

- ✎ Two (2) alerts were reported from Lofa (dead) Counties
- ✎ One specimen was collected and pending testing
- ✎ Cumulatively since Epi week one, fifteen (15) alerts have been reported: 14 tested negative and 1 specimen not collected
 - Proportion of suspected case with sample collected 93% (14/15)
 - Proportion of suspected case with sample tested 93% (14/15)

Diarrheal Diseases

Acute Bloody Diarrhea (Suspected Shigellosis)

- ✎ Twelve (12) cases were reported from Sinoe (3), Lofa (3), Grand Kru (2), Margibi (2), Nimba (1) and Grand Gedeh (1) Counties
 - Three specimens were collected and pending testing
- ✎ Cumulatively, since Epi week one, one hundred and seven (108) suspected shigellosis cases have been reported with 48 specimens collected, 12 tested negative and thirty-three (33) pending laboratory testing

Severe Acute Watery Diarrhea (Suspected Cholera)

- ✎ Seven (7) suspected cases were reported from Grand Kru (2), Lofa (2), Nimba (1), Margibi (1) and Gbarpolu (1) Counties
- ✎ Four specimens were collected and pending testing
- ✎ Cumulatively, since Epi week one, thirty-seven (37) suspected cholera cases have been reported

Other Reportable Diseases

Animal Bites (Human Exposure to Rabies)

- 👉 Twenty-nine (29) animal bite cases were reported from Grand Bassa (6), Maryland (5), Margibi (4), Grand Kru (3), Grand Gedeh (2), Bong (2), River Gee (2), Lofa (2), and one each for Grand Cape Mount, Nimba, and Montserrado Counties
 - No prophylaxes were administered at health facility
- 👉 Cumulatively, since Epi week one, four hundred and sixty-three (463) animal bite cases have been reported

Meningitis

- 👉 Three (3) suspected cases were reported from Bomi (2) and Grand Kru (1)
- 👉 Three specimens were collected with 2 positive and 1 pending testing
- 👉 Cumulatively, since Epi week one, sixteen (16) suspected cases have been reported with two laboratory confirmed cases

Events of Public Health Importance

Maternal Mortality

- 👉 Six (6) deaths were reported from Grand Bassa (3), Nimba (2) and Sinoe (1) Counties
- 👉 Causes of death: Abortion (2), Rupture uterus (1), Disseminated Intravascular Coagulation (1), Postpartum Hemorrhage (1) and Postpartum sepsis (1)
- 👉 Health facility accounted for 100% (6) of the death reported
- 👉 Cumulatively, since Epi week one, fifty-nine (59) deaths have been reported

Neonatal Mortality

- 👉 Ten (10) deaths were reported from Montserrado (6), Maryland (2) and Bong (2) Counties
- 👉 Causes of deaths: neonatal sepsis (5), birth asphyxia (2), hypoglycemic shock (1) and premature (2)
- 👉 Health facility accounted for 100% (10) of the death reported
- 👉 Cumulatively, since Epi week one, one hundred-eighty-nine (189) deaths have been reported

Unexplained Death

- 👉 Zero (0) deaths were reported
- 👉 Cumulatively, since Epi week one, one (1) death has been reported

Cross Border Surveillance Update

- 👉 A total of 4,443 travelers recorded for the week with incoming travelers accounting for 51% and outgoing travelers 49%
- 👉 None of the travelers were reactive for COVID-19
- 👉 The airport accounted for the highest number of travelers for the week

Table 2: Cross border activity at the PoE for Incoming and Outgoing Travelers, Liberia, Epi week 14, 2021

Type of PoE	Point of Entry	Weekly Total	Arrival	Departure	Yellow Book Issued	Yellow Book Damaged	Card Replaced	Travelers Vaccinated	Alerts Verified	COVID-19 Reactive
Airport	James S. Paynes	50	44	16	0	0	0	0	0	0
	Robert International Airport	2459	1157	1302	24	24	0	0	0	0
Seaport	Freeport of Monrovia	196	98	98	0	0	0	0	0	0
	Harper	0	0	0	0	0	0	0	0	0
	Buchanan Port	288	144	144	0	0	0	0	0	0
Land Crossing	Bo Water Side	822	445	377	10	10	0	0	0	0
	Ganta	436	256	180	12	12	0	0	0	0
	Yekepa	164	94	70	44	44	0	0	0	0
	Louguatuo	18	12	6	0	0	0	0	0	0
Total travelers		4443	2250	2193	50	50	0	0	0	0



Liberia IDSR Epidemiology Bulletin

2021 Epi-week 14 (March 29- April 4, 2021)



Public Health Measures

National level

- 👉 Providing technical, logistical and financial support to counties
- 👉 Heighten surveillance in affected and surrounding communities
- 👉 Publishing situational reports to inform stakeholders

County level

- 👉 Publication of situational reports to inform stakeholders
- 👉 Active case search ongoing in affected and surrounding communities
- 👉 Contact tracing, health education, and community engagement ongoing in affected communities
- 👉 Case management ongoing for isolated cases

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	9	5	8	5	6	5	6	4	6	7	6	6	6	10	93				
No. of Health District Reported			4	8	5	8	5	6	5	5	4	6	7	6	6	6	10	91				
Vaccine Preventable Diseases	Acute Flaccid Paralysis (Suspected Polio)	A	0	1	0	0	1	0	1	1	0	0	4	1	0	1	0	10	36	0		
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	Measles	A	1	0	0	0	1	0	2	1	0	0	1	2	0	0	0	8	106	10		
		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	0	5	0	
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Yellow fever	A	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	2	27	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	0	
		D	0	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	11	0	0	
		D	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2	4	0	0	
	Lassa fever	A	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	23	0	0
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	2	0
Influenza-Like Illnesses	COVID-19	A	0	0	0	0	1	0	0	0	1	0	4	0	0	0	0	6	245	2063	0	
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Diarrheal Diseases	Acute Bloody Diarrhoea (Shigellosis)	A	0	0	0	0	0	1	2	3	2	0	0	1	0	0	3	12	108	0	0	
		D	0	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	1	0	0	0	2	2	1	0	0	1	0	0	0	7	37	0	0	
		D	0	0	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	3	0	0	0	0	0	0	0	2	0	0	1	6	59			
	Neonatal Mortality	D	0	2	0	0	0	0	0	0	0	2	6	0	0	0	0	10	189			
	Adverse Events Following Immunization (AEFI)	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	0
		D	0	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	1	0	0	0	1	1	0	0	
		D	0	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	0	0
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Human Exposure to Animal bites (Suspected Rabies)	A	0	2	0	6	1	2	3	2	4	5	1	1	0	2	0	29	465	0	0	
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Meningitis	A	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	3	16	2	0	0
		D	0	0	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	0
		D	0	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	0	0
		D	0	0	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	0	0
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL			3	6	2	10	4	3	12	11	8	7	16	9	0	3	4	98	1344	2077		

D = Dead 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%). 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: ≥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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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.