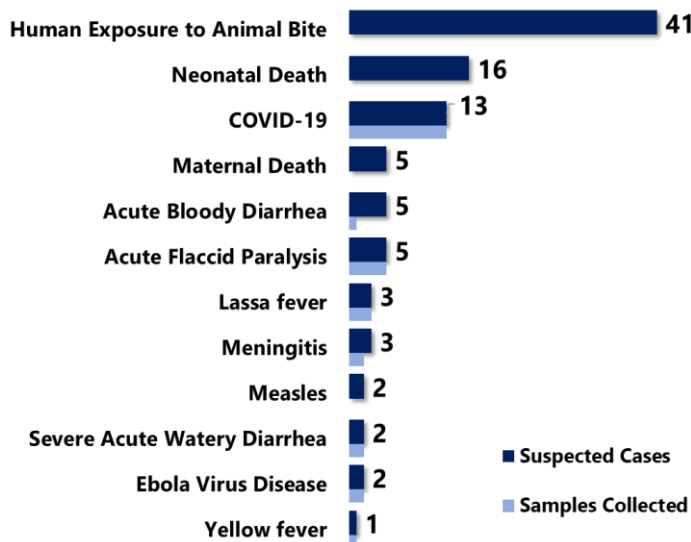


## Highlights

### 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 **22** deaths were reported
- ♦ Completeness and timeliness of health facility reports were both **99%**
- ♦ **Lassa fever** outbreak in Grand Bassa County
- ♦ **Ongoing Measles** outbreak in Lofa County
- ♦ **Ongoing EVD preparedness engagement** initiated at all level
- ♦ **13** new confirmed COVID-19 cases recorded from Bong, Margibi and Montserrado Counties

## Reporting Coverage

Table 1: Health Facility Weekly DSR Reporting Coverage, Liberia, Epi week 10, 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	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	19	19	19	100	100
Lofa	61	61	61	100	100
Margibi	55	55	55	100	100
Maryland	27	27	27	100	100
Montserrado	365	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
<b>Liberia</b>	<b>888</b>	<b>887</b>	<b>887</b>	<b>99</b>	<b>99</b>

887(99%)  
Health facilities reported IDSR data

93 (100%)  
Health districts reported IDSR data

887(99%)  
Health facilities reported timely IDSR data

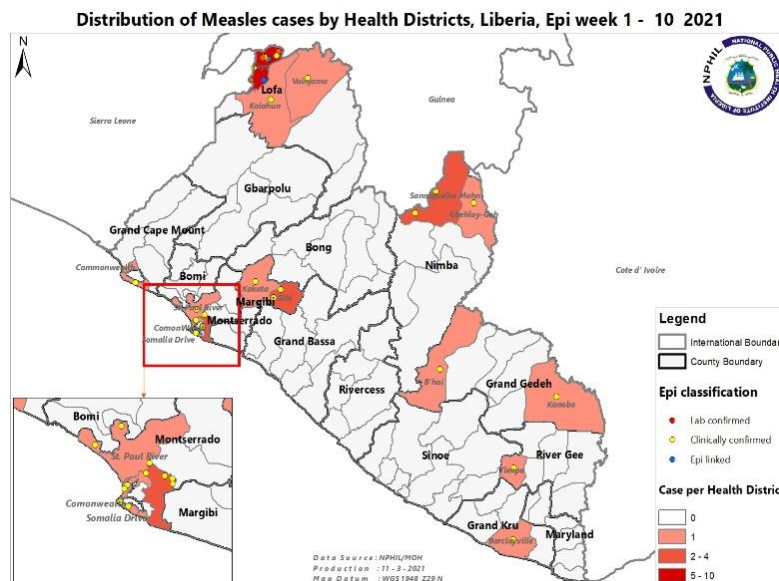
- ♦ The national target for weekly IDSR reporting is 80%. Health facility timeliness is monitored at health district level
- ♦ All Counties submitted weekly IDSR report on time to the national level

Legend: ≥80 <80

## Vaccine Preventable Diseases

### Measles

- 👉 Two (2) suspected cases were reported from Montserrado, and Nimba Counties
  - No specimens were collected
- 👉 Vaccination status among suspected cases
  - Vaccinated 2 (100%)
- 👉 Age distribution among suspected cases
  - <5 years: 1 (50%)
  - ≥5 years: 1 (50%)
- 👉 Cumulatively, since Epi week one, seventy-one (71) suspected cases have been reported
- 👉 Epi-classification is as follows: 55 confirmed (7 lab-confirmed, 36 clinically confirmed, 12 epi-linked) and 16 negatives



## Outbreak

### Foya District, Lofa County

- 👉 No new case reported this week
- 👉 A total of 17 cases including 4 laboratory confirmed cases have been recorded
- 👉 16 cases were treated and discharged, while 1 still undergoing treatment
- 👉 2020 routine vaccination coverage for Foya District is 82%, and Porluma Clinic is 75%
- 👉 The confirmed cases were vaccinated

### Public Health Actions

- 👉 Outreach was conducted in affected and surrounding communities
  - 12 children were vaccinated (<5 years: 8, and > 5 years: 5)
- 👉 Active case search and community engagement ongoing

## Acute Flaccid Paralysis

- 👉 Five (5) cases were reported from Lofa (3) and Bong (2) Counties
- 👉 Specimen were collected, shipped and pending testing
- 👉 Cumulatively, since Epi week one, 14 cases have been reported

## Neonatal Tetanus

- 👉 Zero case was reported
- 👉 Cumulatively, since Epi week one, four (4) cases have been reported

## Influenza-Like Illnesses

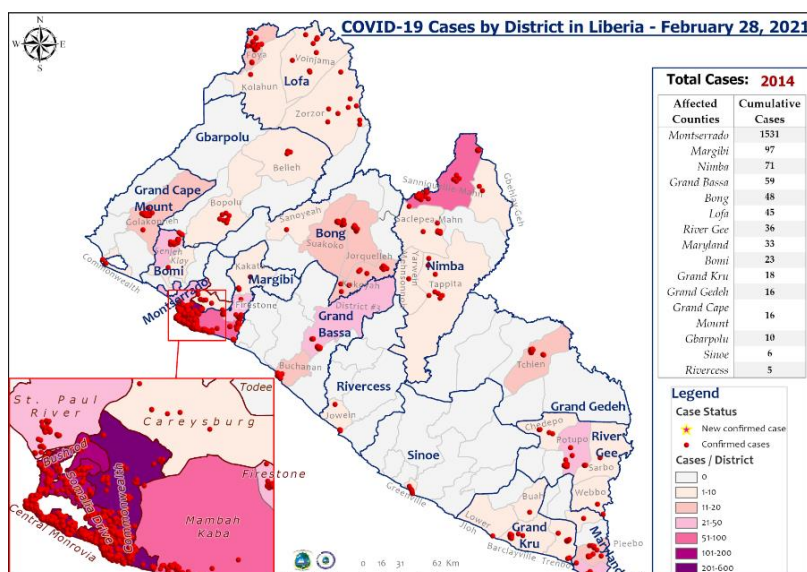
### Coronavirus Disease (COVID-19)

#### Outbreak

- 👉 Thirteen (13) new confirmed cases were reported from Montserrado (11), Margibi (1), and Bong (1) Counties with male accounting for 53.8%
- 👉 Since Epi week one, a total of two hundred six (206) confirmed cases have been reported
- 👉 Cumulatively, two thousand twenty-six (2,026) 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

- ☞ Three (3) suspected cases were reported from Grand Bassa (2) and Bong (1) Counties
- ☞ Specimens were collected and tested:
  - 1 positive and 2 negative
- ☞ Cumulatively, since Epi week one, twenty (20) suspected cases have been reported including two (4) deaths

### Outbreak

#### District 3A&B, Grand Bassa County

- ☞ One (1) new confirmed case reported this week
- ☞ 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 1<sup>st</sup> March, 2021 and was unresponsive to treatment. Based on the suspicion for Lassa, the case patient was admitted and isolated at LAC hospital on 4<sup>th</sup> March. Specimen was collected on 6<sup>th</sup> March, 2021 and tested positive on 8<sup>th</sup> March 2021. The case patient expired on 7<sup>th</sup> March while awaiting the lab results
- ☞ Ten (10) contacts were line listed including 4 community members (high risk) and 6 healthcare workers (low risk)
- ☞ Contacts are being monitored and follow-up

## Public Health Actions

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

### Yellow fever

- ☞ One suspected case was reported from Maryland County
- ☞ Specimen was collected and pending testing
- ☞ Cumulatively since Epi week one, seven (17) suspected cases have been reported with 13 negative and 2 pending testing
  - Proportion of suspected case with sample collected 88.2% (15/17)
  - Proportion of suspected case with sample tested 76.5% (13/17)

### Ebola Virus Disease

- ☞ Two (2) alerts were reported from Grand Gedeh (1) and Lofa (1) Counties
- ☞ Specimens were collected and tested negative
- ☞ Cumulatively since Epi week one, eight (8) alerts have been reported and all tested negative
  - Proportion of suspected case with sample collected 100% (8/8)
  - Proportion of suspected case with sample tested 100% (8/8)

## Diarrheal Diseases

### Acute Bloody Diarrhea (Suspected Shigellosis)

- 📁 Five (5) cases were reported from Lofa (2), Maryland (1), Grand Gedeh (1) and Montserrado (1) Counties
  - One specimen was collected and pending laboratory testing
- 📁 Cumulatively, since Epi week one, seventy-seven (77) suspected shigellosis cases have been reported with 39 specimens collected, 12 tested negative and twenty-seven (27) pending laboratory testing

### Severe Acute Watery Diarrhea (Suspected Cholera)

- 📁 Two (2) suspected cases were reported from Bomi County
- 📁 Specimens were collected and pending testing
- 📁 Cumulatively, since Epi week one, nineteen (19) suspected cholera cases have been reported

## Other Reportable Diseases

### Animal Bites (Human Exposure to Rabies)

- 📁 Forty-one (41) animal bite cases were reported from: Maryland (9), Montserrado (8), Bong (5), Grand Bassa (4), Nimba (3), Grand Cape Mount (2), Margibi (2), Grand Gedeh (2), Grand Kru (2), Sinoe (2), and Lofa (2) Counties
  - No prophylaxes were administered at health facility
- 📁 Cumulatively, since Epi week one, three hundred twenty-nine (329) animal bite cases have been reported

### Meningitis

- 📁 Three (3) suspected cases were reported from Grand Kru, Nimba, and Lofa Counties
- 📁 Two (2) specimens were collected: 1 tested negative and 1 pending
- 📁 Cumulatively, since Epi week one, nine (9) suspected cases have been reported

## Events of Public Health Importance

### Maternal Mortality

- 📁 Five (5) deaths were reported from Montserrado (2) and one each from Nimba, Grand Bassa, Margibi Counties
- 📁 Causes of deaths: postpartum hemorrhage (4) and retained placenta (1)
- 📁 Reporting sites: Health facility 3 (60%), Community 2 (40%)
- 📁 Cumulatively, since Epi week one, thirty-five (40) deaths have been reported

### Neonatal Mortality

- 📁 Sixteen (16) deaths were reported from Montserrado (10), Grand Kru (2), Margibi (2), and one each from Gbarpolu and Sinoe Counties
- 📁 Causes of deaths: neonatal sepsis (8), birth asphyxia (5), preterm (1), severe pneumonia (1), and dehydration (1)
- 📁 Reporting sites: Health facility 16 (100%)
- 📁 Cumulatively, since Epi week one, one hundred-nineteen (137) 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 3,829 travelers recorded for the week with incoming travelers accounting for 58% and outgoing travelers 42%
- 📁 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 10, 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	87	50	37	0	0	0	0	0	0
	Robert International Airport	2206	1170	1036	43	0	43	0	0	0
Seaport	Freeport of Monrovia	180	90	90	0	0	0	0	0	0
	Buchanan Port	220	110	110	0	0	0	0	0	0
Land Crossing	Bo Water Side	814	490	324	0	0	0	0	0	0
	Ganta	264	264	0	0	0	0	0	0	0
	Yekepa	58	58	0	0	0	0	0	0	0
<b>Total travelers</b>		<b>3,829</b>	<b>2,232</b>	<b>1,597</b>	<b>43</b>	<b>0</b>	<b>43</b>	<b>0</b>	<b>0</b>	<b>0</b>

## 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	0	0	2	0	0	0	3	0	0	0	0	0	0	0	5	14	0
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Measles	A	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	2	71	7
		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	3	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	1	0	0	0	0	0	1	17	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	1	0	1	0	0	0	0	0	0	0	0	2	8	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	2	0	0	0	0	0	0	0	0	0	0	0	3	19	1
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
Influenza-Like Illnesses	COVID-19	A	0	1	0	0	0	0	0	1	0	11	0	0	0	0	13	206	2026	
		D	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	1	0	2	0	1	1	0	0	0	0	5	77	0	
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Severe Acute Watery Diarrhoea (Cholera)	A	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	19	0	
		D	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	1	0	0	0	1	0	2	1	0	0	0	5	40		
	Neonatal Mortality	D	0	0	1	0	0	0	2	0	2	0	10	0	0	1	16	137		
	Adverse Events Following Immunization (AEFI)	A	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	
	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	
Other Reportable Diseases	Monkeypox	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	
	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	
	Human Exposure to Animal bites (Suspected Rabies)	A	0	5	0	4	2	2	2	2	2	9	8	3	0	0	2	41	329	0
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Meningitis	A	0	0	0	0	0	0	1	1	0	0	0	1	0	0	3	9	0	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			2	7	1	9	2	4	5	9	6	11	33	6	0	0	3	98	952	0

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

Epidemiological bulletin published with support of WHO and CDC

### For comments or questions, please contact

**Thomas K. Nagbe, MPH**

Director,

Infectious Disease and Epidemiology Division

National IHR Focal Person

National Public Health Institute of Liberia

Republic of Liberia

Email: [tnknue31112@gmail.com](mailto:tnknue31112@gmail.com)

Phone: +231 886 937386/777442444

Website: [www.nphil.gov.lr](http://www.nphil.gov.lr)

**Ralph W. Jetoh, MD, MPH**

Deputy Director

Infectious Disease and Epidemiology Division

National Public Health Institute of Liberia

Republic of Liberia

Email: [ralphica2000@gmail.com](mailto:ralphica2000@gmail.com)

Phone: +231 886526388/777372655

Website: [www.nphil.gov.lr](http://www.nphil.gov.lr)

## National Public Health Institute of Liberia (NPHIL)

### MISSION

To prevent and control public health threats by promoting healthy outcomes and serving as a source of knowledge

### VISION

A center of excellence to create health outcomes for Liberians through a strong preventive health system and expertise

## EDITORIAL TEAM

### DIDE / NPHIL

R. N. George

A. N. Miannah

I. P. Pewu

T. O. Yeabah

E. Dwalu

G. B. Williams

S. K. Zayzay

L. W. Colee

T. L. Hall

S. L. Flomo

M. S. Quiah

C. T. Yeah

L. K. Seepoe

W. T. Gayflor

H. M. Sherman

A. B. Corvah

M. G. Jeuronlon

M.D. Vaye

### 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.