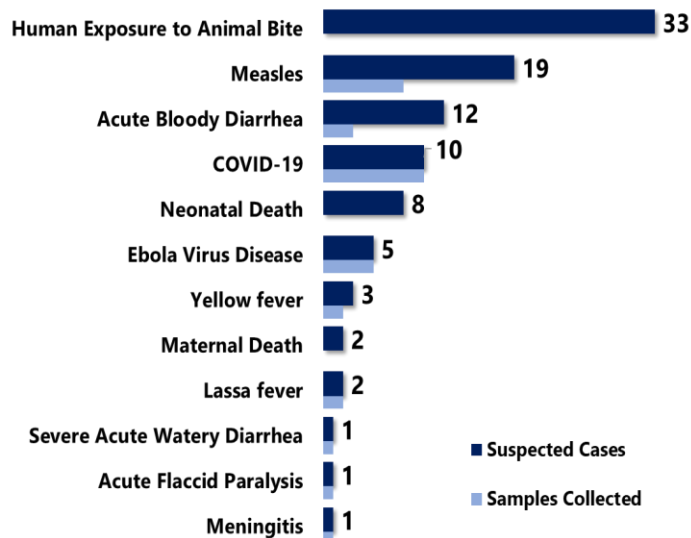


## Highlights

### Figure 1: Public Health Events Reported during this week



### Keynotes and Events of Public Health Significance

- ♦ **A total of 97** events of public health importance including **12** deaths were reported
- ♦ **Completeness and timeliness** of health facility reports were both **99%**
- ♦ **Measles outbreak** in Lofa County
- ♦ **Ten new** COVID-19 cases recorded from Bong and Montserrado Counties

## Reporting Coverage

Table 1: Health Facility Weekly DSR Reporting Coverage, Liberia, Epi week 8, 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	25	25	93	93
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>885</b>	<b>885</b>	<b>99</b>	<b>99</b>

885(99%)  
Health facilities reported IDSR data

92 (98%)  
Health districts reported IDSR data

885(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 except for Lofa to the national level

Legend: ≥80 <80

## Vaccine Preventable Diseases

### Measles

👉 Nineteen (19) suspected cases were reported from Lofa (15), Sinoe (2), Montserrado (1), and Grand Gedeh (1) Counties

- Eight (8) specimens were collected and 7 tested: 6 positive, 1 negative and pending testing

👉 Vaccination status among suspected cases

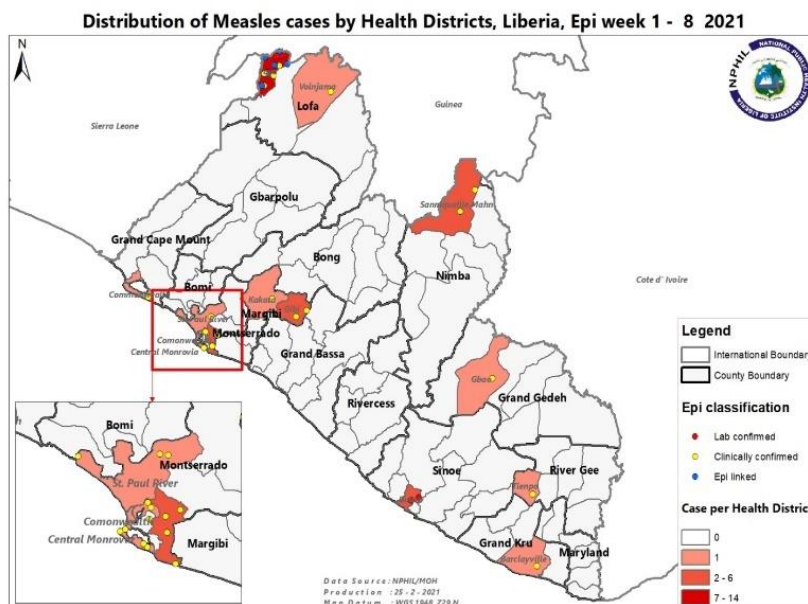
- Vaccinated 15 (79%)
- Not vaccinated 2 (10.5%)
- Unknown 2 (10.5%)

👉 Age distribution among suspected cases

- ≥5 years: 12 (63.1%)
- <5 years: 7 (36.8%)

👉 Cumulatively, since Epi week one, sixty-one (61) suspected cases have been reported

👉 Epi-classification is as follows: 38 confirmed (7 lab-confirmed, 38 clinically confirmed, 0 epi-linked) and 16 negatives



### Outbreak

#### Foya District, Lofa County

- 👉 Four new confirmed case reported
- 👉 Outbreak was confirmed February 24, 2021
- 👉 All of the cases were above 5-year-old with female accounting for 75% and male 25%
- 👉 The confirmed cases were vaccinated
- 👉 All of the reported cases were treated and discharged
- 👉 A total of 15 cases were detected in Massabaga Town between February 11-13, 2021
  - Ten epi-linked cases
- 👉 Micro planning has been initiated to conduct mini campaign

#### Public Health Actions

- 👉 District RRT activated
- 👉 Information shared with bordering Districts in Guinea
- 👉 Active case search ongoing

### Acute Flaccid Paralysis

- 👉 One case was reported from Nimba County
- 👉 One specimen collected, shipped and pending testing
- 👉 Cumulatively, since Epi week one, eight (8) cases have been reported

### Neonatal Tetanus

- 👉 Zero (0) cases were reported
- 👉 Cumulatively, since Epi week one, three (3) cases have been reported

## Influenza-Like Illnesses

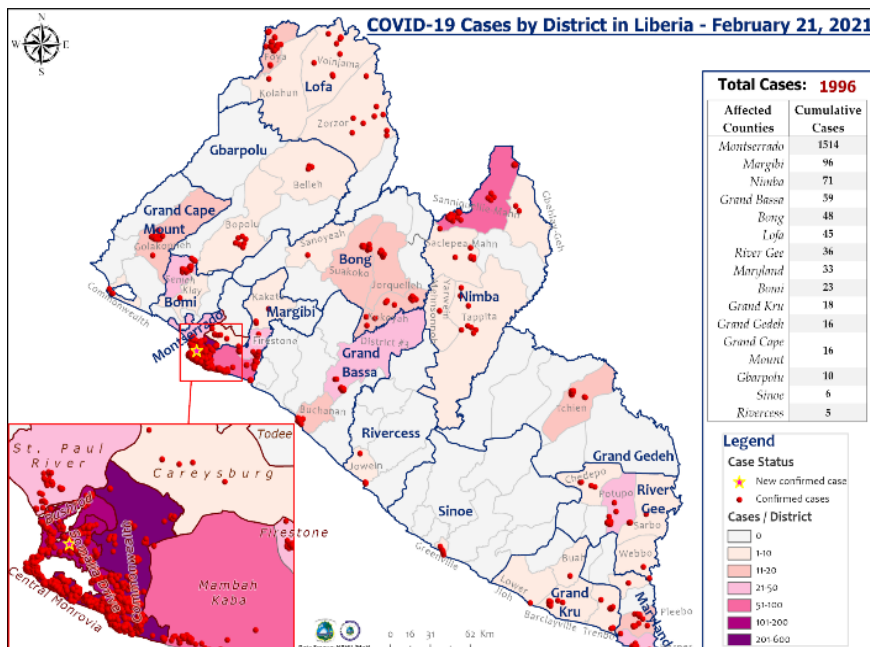
### Coronavirus Disease (COVID-19)

#### Outbreak

- ✎ Ten (10) new confirmed cases were reported from Montserrado (9) and Bong (1) Counties with male accounting for 70%
- ✎ Since Epi week one, a total of one hundred and eighty-five (185) confirmed cases have been reported
- ✎ Cumulatively, one thousand nine hundred ninety-six (1,996) confirmed cases recorded including 84 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 pending testing
- ✎ Cumulatively, since Epi week one, sixteen (16) suspected cases have been reported including two (2) deaths
- ✎ Epi-classification is as follows: two (2) confirmed and twelve (12) not a case with two (2) pending laboratory testing
  - Proportion of suspected cases with sample collected 100% (16/16)
  - Proportion of suspected cases with sample tested 87.5% (14/16)
  - Laboratory confirmed: 12.5% (2/16)

### Yellow fever

- ✎ Three (3) suspected cases were reported from Grand Kru, River Gee and Nimba Counties
- ✎ Two (2) specimens were collected and pending testing
- ✎ Cumulatively since Epi week one, eleven (11) suspected cases have been reported with 5 negative and 3 pending testing
  - Proportion of suspected case with sample collected 81.8% (9/11)
  - Proportion of suspected case with sample tested 45.5% (5/11)

### Ebola Virus Disease

- ✎ Five (5) alerts were reported from Montserrado (3), Nimba (1) and Lofa (1) Counties
- ✎ Five (5) specimens were collected and tested negative
- ✎ Cumulatively since Epi week one, five (5) alerts have been reported and all tested negative
  - Proportion of suspected case with sample collected 100% (5/5)
  - Proportion of suspected case with sample tested 100% (5/5)

## Diarrheal Diseases

### Acute Bloody Diarrhea (Suspected Shigellosis)

- 📁 Twelve (12) cases were reported from Sinoe (5), Grand Kru (2), Margibi (2), Grand Gedeh (1), Rivercess (1) and Lofa (1) Counties
  - Three (3) specimens were collected and pending laboratory testing
- 📁 Cumulatively, since Epi week one, sixty-two (62) suspected shigellosis cases have been reported with 31 specimens collected, 3 tested negative and twenty-eight (28) pending laboratory testing

### Severe Acute Watery Diarrhea (Suspected Cholera)

- 📁 One (1) suspected case was reported from Nimba County
- 📁 Specimen was collected and pending testing
- 📁 Cumulatively, since Epi week one, sixteen (16) suspected cholera cases have been reported

## Other Reportable Diseases

### Animal Bites (Human Exposure to Rabies)

- 📁 Thirty-three (33) animal bite cases were reported from: Grand Kru (6), Montserrado (5), Nimba (4), Maryland (4), Bong (4), Lofa (3), Rivercess (3), Margibi (2), Sinoe (1), and River Gee (1) Counties
  - No prophylaxes were administered at health facility
- 📁 Cumulatively, since Epi week one, two hundred and forty-five (245) animal bite cases have been reported

### Meningitis

- 📁 One suspected case was reported from Grand Gedeh County
- 📁 Specimen was collected and pending testing
- 📁 Cumulatively, since Epi week one, four (4) suspected cases have been reported

## Events of Public Health Importance

### Maternal Mortality

- 📁 Two (2) deaths were reported from Grand Kru and River Gee Counties
- 📁 Causes of deaths: eclampsia and ruptured uterus
- 📁 Reporting sites: Health facility 2 (100%)
- 📁 Cumulatively, since Epi week one, twenty-six (26) deaths have been reported

### Neonatal Mortality

- 📁 Eight (8) deaths were reported from Grand Kru (2), Bong (1), Maryland (1) Margibi (1), Sinoe (1), Nimba (1) and Lofa (1) counties
- 📁 Causes of deaths: birth asphyxia (5), neonatal sepsis (1), aspiration pneumonia (1), and congenital abnormality (1)
- 📁 Reporting sites: Health facility 7 (87.5%) and Community 1 (12.5%)
- 📁 Cumulatively, since Epi week one, seventy-eight (78) 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 2756 travelers recorded for the week with incoming travelers accounting for 48.4% and outgoing travelers 51.6%
- 📁 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 8, 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	72	43	29	0	0	0	0	0	0
	Robert International Airport	1614	710	904	43	43	0	0	0	0
Seaport	Freeport of Monrovia	156	78	78	0	0	0	0	0	0
	Buchanan Port	196	98	98	0	0	0	0	0	0
Land Crossing	Bo Water Side	718	406	312	0	0	0	0	0	0
Total travelers		2756	1335	1421	43	43	0	0	0	0

## 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	0	0	0	0	0	0	0	0	1	0	0	0	1	8	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	1	15	0	0	1	0	0	0	2	19	61	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	0	3	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	0	0	0	0	1	0	0	0	0	1	0	1		3	11	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	1	0	0	2	0	0	0	0	3	8	0	
		D	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	2	2	0	
	Lassa fever	A	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	2	16	0	
		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	0	0	0	9	0	0	0	0	10	185	1996	
		D	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	1	2	0	0	0	1	0	5	12	62	0	
		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	0	0	0	0	0	1	0	0	0	1	16	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	1	0	0	0	0	0	0	1	0	2	26		
	Neonatal Mortality	D	0	1	0	0	0	0	2	1	1	1	0	1	0	0	1	8	78		
	Adverse Events Following Immunization (AEFI)	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	
	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	0	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 Animal bites (Suspected Rabies)	A	0	4	0	0	0	0	6	3	2	4	5	4	3	1	1	33	245	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	1	0	0	0	0	0	0	0	0	0	1	4	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			0	7	0	1	0	2	13	21	5	5	18	9	4	3	9	97	728	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. Mianah

I. P. Pewu

T. O. Yeabah

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

### CDC – 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.