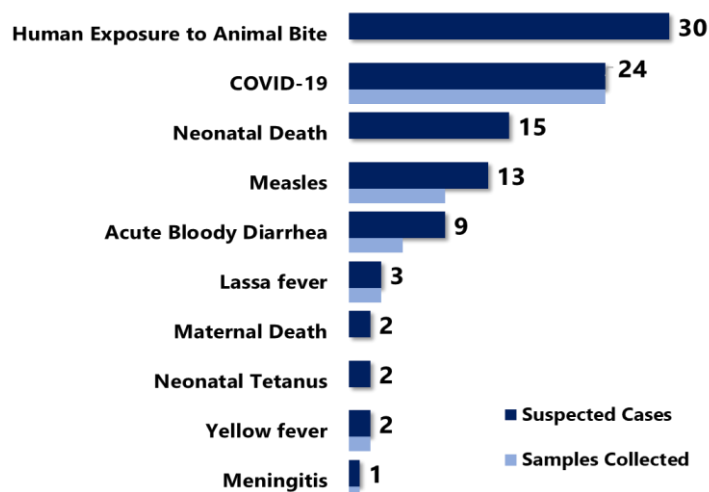


## Highlights

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



### Keynotes and Events of Public Health Significance

- ♦ **A total of 101** events of public health importance including **17** deaths were reported
- ♦ **Completeness and timeliness** of health facility reports were both **99%** and **99%**
- ♦ **Ongoing Lassa fever outbreak** in Bong County
- ♦ **Twenty-four** new COVID-19 cases recorded from Montserrado and Margibi Counties

## Reporting Coverage

Table 1: Health Facility Weekly DSR Reporting Coverage, Liberia, Epi week 6, 2021

County	Expected Report from Health Facility	Reports Received	Received on Time	Completeness (%)	Timeliness (%)
Bomi	26	21	21	81	81
Bong	57	57	57	100	100
Gbarpolu	16	16	16	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>882</b>	<b>882</b>	<b>99</b>	<b>99</b>

882(99%)  
Health facilities reported IDSR data

92 (98%)  
Health districts reported IDSR data

882(99%)  
Health facilities reported timely IDSR data

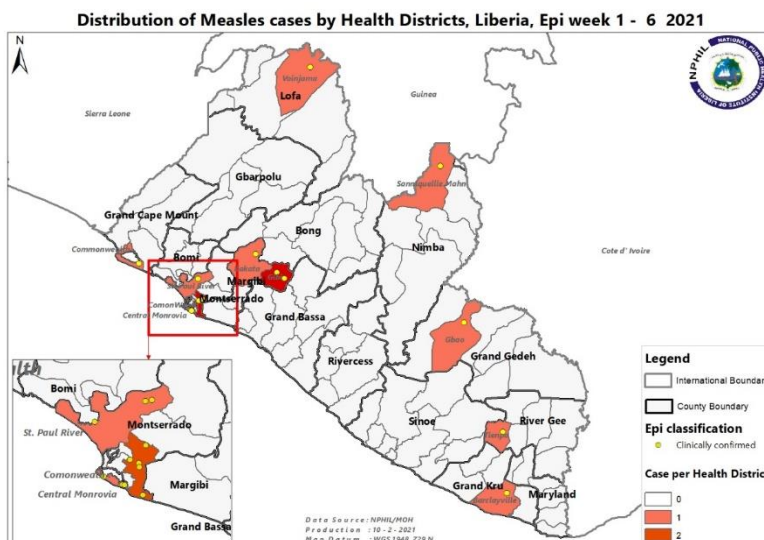
- ♦ The national target for weekly IDSR reporting is 80%. Health facility timeliness is monitored at health district level
- ♦ Maryland County submitted weekly IDSR report late to the national level

Legend: ≥80 <80

## Vaccine Preventable Diseases

### Measles

- ✎ Thirteen (13) suspected cases were reported from Montserrado (4), Grand Gedeh (3), Lofa (2), Margibi (2), Grand Kru (1) and Nimba (1) Counties
  - Eight (8) specimens collected and tested negative
- ✎ Vaccination status among suspected cases
  - Vaccinated 5 (38.5%)
  - Not vaccinated 3 (23%)
  - Unknown 5 (38.5%)
- ✎ Age distribution among suspected cases
  - ≥ 5 years: 7 (53.8%)
  - < 5 years: 6 (46.2%)
- ✎ Cumulatively, since Epi week one, thirty-seven (37) suspected cases have been reported
- ✎ Epi-classification is as follows: 23 confirmed cases (1 lab-confirmed, 22 clinically confirmed, 0 epi-linked) and 14 discarded (negative)



### Acute Flaccid Paralysis

- ✎ Zero cases were reported
- ✎ Cumulatively, since Epi week one, six (6) cases have been reported

### Neonatal Tetanus

- ✎ Two (2) cases were reported from Montserrado County
- ✎ Cumulatively, since Epi week one, three (3) cases have been reported

## Influenza-Like Illnesses

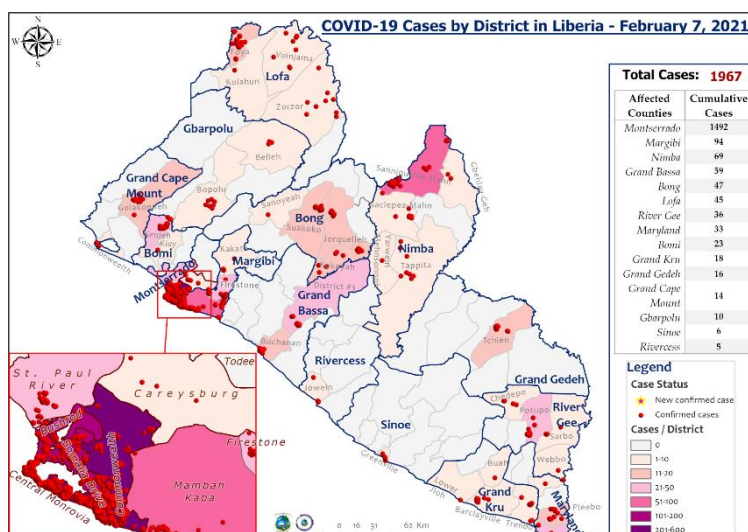
### Coronavirus Disease (COVID-19)

#### Outbreak

- ✎ Twenty-four (24) new confirmed cases were reported from Montserrado (23) and Margibi (1) Counties with both female and male accounting for 50% respectively
- ✎ Since Epi week one, a total of one hundred fifty-seven (157) confirmed cases have been reported
- ✎ Cumulatively, one thousand nine hundred sixty-seven (1,967) 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

- 👉 Three (3) suspected cases were reported from Montserrado, Gbarpolu and Grand Bassa Counties
- 👉 Three Specimens were collected, one tested negative and 2 pending testing
- 👉 Cumulatively, since Epi week one, twelve (12) suspected cases have been reported including two (2) deaths
- 👉 Epi-classification is as follows: two (2) confirmed and eight (8) not a case with two (2) pending laboratory testing
  - Proportion of suspected cases with sample collected 100% (12/12)
  - Proportion of suspected cases with sample tested 83% (10/12)
  - Laboratory confirmed: 17% (2/12)

### Outbreak

#### Suakoko District, Bong County

- No new confirmed case reported
- The case, a 39-year old male and resident of Phebe Airstrip had symptom onset of illness on January 10, 2021. Case visited the Phebe Hospital on January 11 2021 and was admitted, specimen collected and sent to the NPHRL on January 11, 2021. The case expired on January 12, 2021 and safe burial was conducted. On January 17., 2021, the case was tested positive for Lassa virus. 21 contacts including 18 health workers were identified and line-listed
- Outbreak began Jan 17, 2021
- A total of one (1) confirmed case recorded

#### Public Health Actions

- Daily contact follow-up ongoing
- Continue to conduct community engagement on the prevention of Lassa fever and rodents control measure

### Yellow fever

- 👉 Two (2) suspected cases were reported from Grand Gedeh and Lofa Counties
- 👉 Specimens were collected and pending laboratory testing
- 👉 Cumulatively since Epi week one, eight (8) suspected cases have been reported with 5 negative and 3 pending
  - Proportion of suspected case with sample collected 88% (7/8)
  - Proportion of suspected case with sample tested 63% (5/8)

## Diarrheal Diseases

### Acute Bloody Diarrhea (Suspected Shigellosis)

- 👉 Nine (9) cases were reported from Sinoe (4), Grand Gedeh (3), Grand Cape Mount (1) and Lofa (1) Counties
  - Five (5) specimens were collected and pending laboratory testing
- 👉 Cumulatively, since Epi week one, forty-four (44) suspected shigellosis cases have been reported with 24 specimens collected, 3 tested negative and twenty-one (21) pending laboratory testing

### Severe Acute Watery Diarrhea (Suspected Cholera)

- 👉 Zero suspected cases were reported
- 👉 Cumulatively, since Epi week one, thirteen (13) suspected cholera cases have been reported

## Other Reportable Diseases

### Animal Bites (Human Exposure to Rabies)

- 👉 Thirty (30) animal bite cases were reported from: Montserrado (9), Bong (5), Grand Bassa (3), River Gee (3), Nimba (3), Rivercess (2), and one each from: Grand Cape Mount, Grand Kru, Grand Gedeh, Lofa and Maryland Counties
  - No prophylaxes were administered at health facility
- 👉 Cumulatively, since Epi week one, one hundred and eighty-nine (189) animal bite cases have been reported

## Meningitis

- One (1) suspected case was reported from Bomi
- Specimen was collected and pending tested
- Cumulatively, since Epi week one, three (3) suspected cases have been reported

## Events of Public Health Importance

### Maternal Mortality

- Two (2) deaths were reported from Montserrado and Maryland Counties
- Causes of deaths: antepartum hemorrhage and eclampsia
- Reporting sites: Health facility 2 (100%)
- Cumulatively, since Epi week one, twenty (22) deaths have been reported

### Neonatal Mortality

- Fifteen (15) deaths were reported from Montserrado (7), Margibi (4), Maryland (2), Gbarpolu (1), and Lofa (1) Counties
- Causes of deaths: birth asphyxia (6), neonatal sepsis (8) and preterm (1)
- Reporting sites: Health facility 15 (100%)
- Cumulatively, since Epi week one, fifty-seven (57) 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 2619 travelers recorded for the week with incoming travelers accounting for 50.4% and outgoing travelers 49.6%
- 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 6, 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	28	13	15	0	0	0	0	0	0
	Robert International Airport	1257	598	659	14	14	0	0	0	0
Seaport	Freeport of Monrovia	240	120	120	0	0	0	0	0	0
	Buchanan Port	180	90	90	0	0	0	0	0	0
Land Crossing	Bo Water Side	910	498	412	0	0	0	0	0	0
Total travelers		2615	1319	1296	14	14	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	0	0	0	0	0	0	6	0
		D	0	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	3	1	2	2	0	4	1	0	0	0	0	13	37	1
		D	0	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	2	0	0	0	0	0	2	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	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	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	0	0	0
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Lassa fever	A	0	0	1	1	0	0	0	0	0	0	1	0	0	0	0	0	3	12	0
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	2
Influenza-Like Illnesses	COVID-19	A	0	0	0	0	0	0	0	0	1	0	23	0	0	0	0	24	157	157	
		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	1	3	0	1	0	0	0	0	0	0	0	4	9	44	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0
		D	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	0	0	0	0	0	0	1	1	0	0	0	0	2	22		
	Neonatal Mortality	D	0	0	1	0	0	0	0	1	4	2	7	0	0	0	0	15	57		
	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	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
		D	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	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
	Tuberculosis	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
	Human Exposure to Animal bites (Suspected Rabies)	A	0	5	0	3	1	1	1	1	0	1	9	3	2	3	0	30	189	0	
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Meningitis	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	0	0
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Unexplained Cluster of Death	A	0	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	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
		D	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
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL			1	5	2	4	2	8	2	6	7	4	47	4	2	3	4	101	556	160	

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.