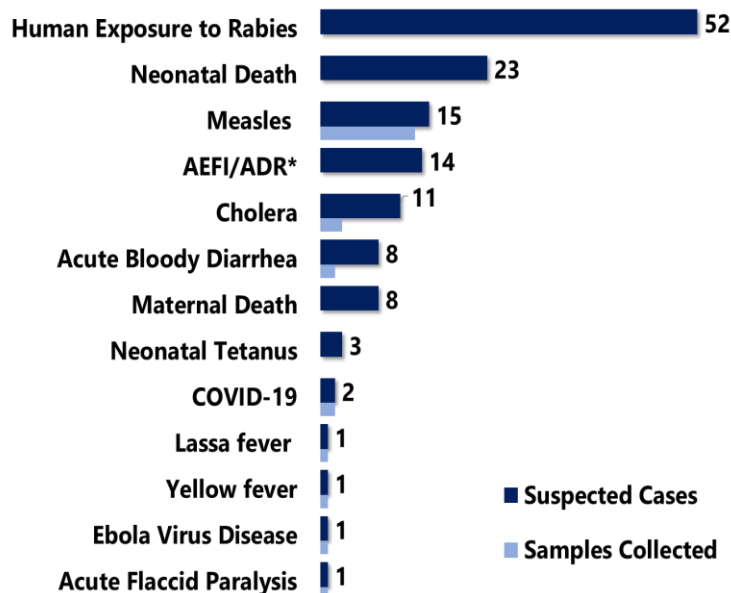


Highlights

Figure 1: Public Health Events Reported during this week



Keynotes and Events of Public Health Significance

- ♦ A total of **140** events of public health importance including **34** deaths were reported
- ♦ Completeness and timeliness of health facility reports were both **100% respectively**
- ♦ **Adverse Events Following Immunization** surveillance heightened at all levels
- ♦ **Ongoing Lassa fever** outbreak in Grand Bassa and Montserrado Counties

*Adverse Event Following Immunization/Adverse Drug Reaction

Reporting Coverage

Table 1: Health Facility Weekly DSR Reporting Coverage, Liberia, Epi week 43, 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	100	100
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	367	367	367	100	100
Nimba	87	87	87	100	100
Rivercess	20	20	20	100	100
River Gee	20	20	20	100	100
Sinoe	37	37	37	100	100
Liberia	885	885	885	100	100

885(100%)
Health facilities reported IDSR data

93(100%)
Health districts reported IDSR data

885(100%)
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 reports to the national level on time

Legend: ≥80 <80

Vaccine Preventable Diseases

Measles

👉 Fifteen (15) suspected cases were reported from Nimba (4), Montserrado (3), Grand Gedeh (2), Bomi (2), Grand Bassa (1), Maryland (1), Rivercess (1), and Sinoe (1) Counties

- Thirteen (13) specimens were collected with 3 positive, 6 negative and 4 pending laboratory testing

👉 Vaccination status among suspected cases

- Vaccinated: 5 (33%)
- Not Vaccinated: 5 (33%)
- Unknown: 5 (33%)

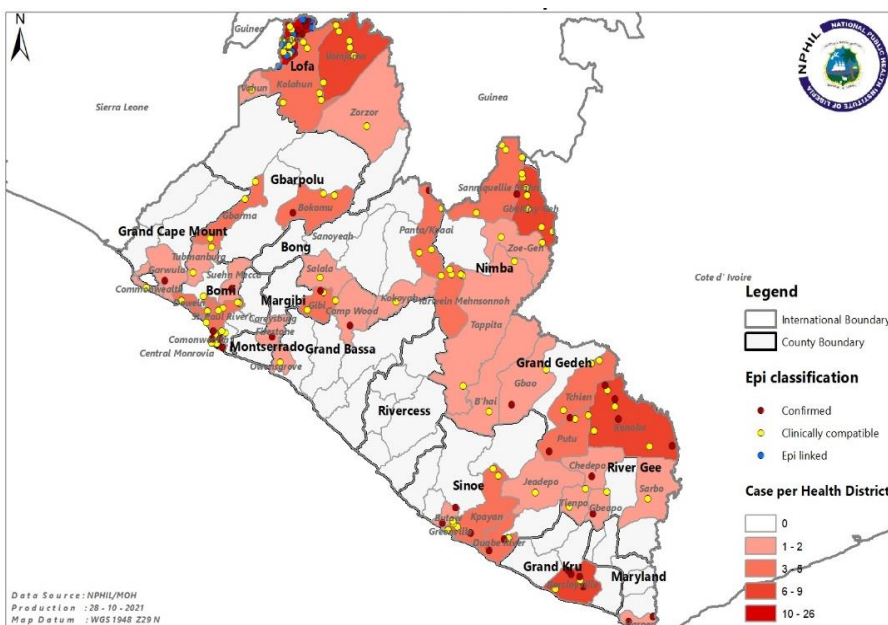
👉 Vaccination status among confirmed cases

- Unknown: 2 (67%)
- Not Vaccinated: 1 (33%)

👉 Age distribution among suspected cases

- ≥ 5 years: 7 (47%)
- < 5 years: 8 (53%)

Figure 2: Epidemiological classification of Measles cases by Geographical Distribution (Health Districts), Liberia, Epi week 1 – 43, 2021

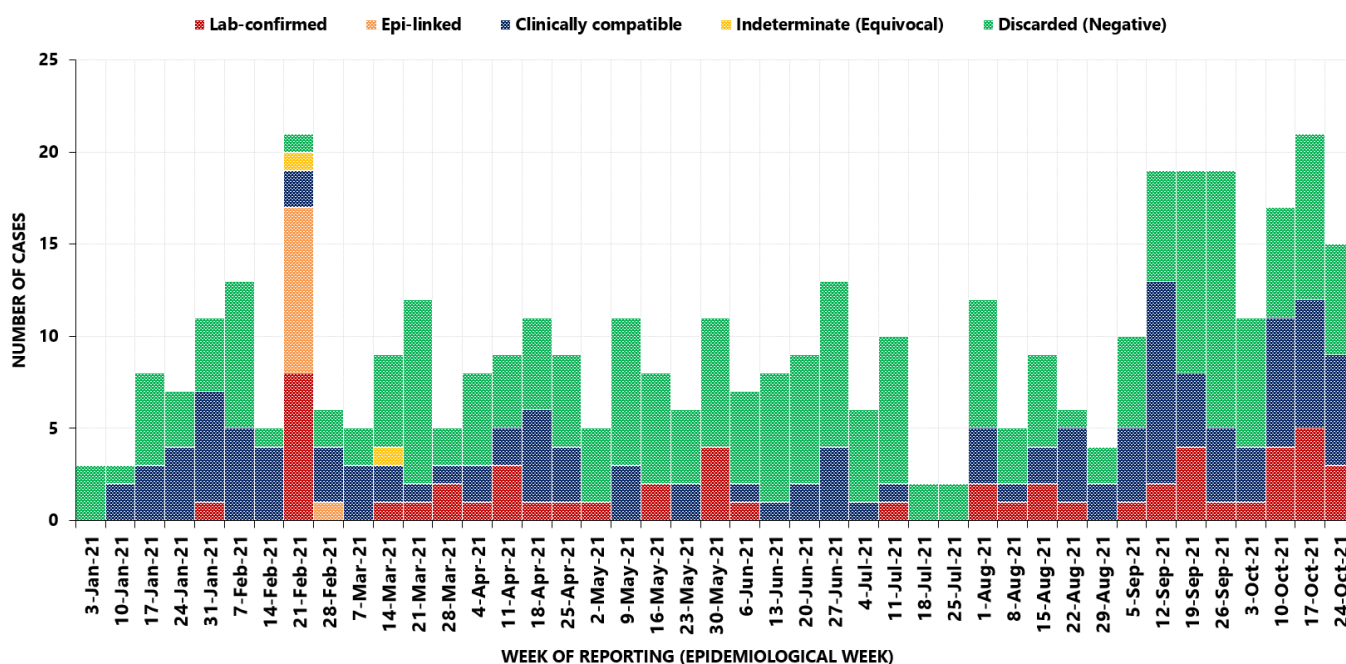


👉 Cumulatively, since Epi week one, four hundred ten (410) cases have been reported and classified as follows (see Figure 3):

👉 Proportion of samples tested: 86% (271/314)

- Laboratory confirmed: 54, clinically compatible: 127, epidemiologically linked: 10, non-measles discarded cases: 217 (negative laboratory test)
- One hundred-thirteen non-measles discarded cases were tested negative for rubella and eleven was positive representing 10% of the total tested for rubella

Figure 3: Epi-classification of Measles Cases by Reporting Weeks, Liberia, Epi-week 1 - 43, 2021



Acute Flaccid Paralysis (AFP)

- ☞ One case was reported from Bong County
- ☞ Cumulatively, since Epi week one, 128 AFP cases have been reported
 - Of the total cases, 112 specimens have reached the national level and onward shipment process completed (*see Table 2*) with 109 tested and result available
- ☞ As of this week, non-polio AFP rate is at 7.4 per 100,000 population in less than 15 years of age

Note: Further investigation of 16 AFP cases of the cumulative cases is ongoing to ascertain the status of these cases.

Table 2: Non-polio Acute Flaccid Paralysis Rate per 100,000 <15yrs, Liberia, Epi week 1 - 43, 2021

County	< 15 years pop	# of AFP Cases Reported	# of Cases with Lab Result	Non-Polio AFP Rate	# of cases <14 days specimen collected	% of stool <14days	# of NPENTs	% of NPENT
Bomi	49595	3	0	7.3	3	100%	1	33.3%
Bong	204820	18	4	10.6	18	100%	3	16.7%
Gbarpolu	49162	8	2	19.7	6	75%	1	12.5%
Grand Bassa	130703	7	2	6.5	7	100%	1	14.3%
Grand Cape Mount	74927	2	1	3.2	2	100%	0	0.0%
Grand Gedeh	73848	11	0	18.0	8	73%	1	9.1%
Grand Kru	34151	4	0	14.2	3	75%	0	0.0%
Lofa	162671	13	3	9.7	9	69%	0	0.0%
Margibi	123772	7	3	6.8	7	100%	0	0.0%
Maryland	80145	2	1	3.0	2	100%	0	0.0%
Montserrado	681600	18	10	3.2	18	100%	2	11.1%
Nimba	272406	28	2	12.4	20	71%	0	0.0%
Rivercess	42160	2	1	5.7	2	100%	0	0.0%
River Gee	39381	2	0	6.1	2	100%	0	0.0%
Sinoe	60373	3	0	6.0	3	100%	0	0.0%
Liberia	2079713	128	29	7.4	110	86%	9	7.0%
Non-Polio AFP Rate		Stool adequacy		<80%	Non-Polio Enterovirus	<10%	Silent	
				≥80%		≥10%		

Neonatal Tetanus

- ☞ Three (3) cases were reported from Montserrado, Bong and Grand Bassa Counties
 - The case from Bong died and the mother was not immunized
- ☞ Cumulatively, since Epi week one, thirty-nine (39) clinically diagnosed cases have been reported

Influenza-Like Illnesses

Coronavirus Disease (COVID-19)

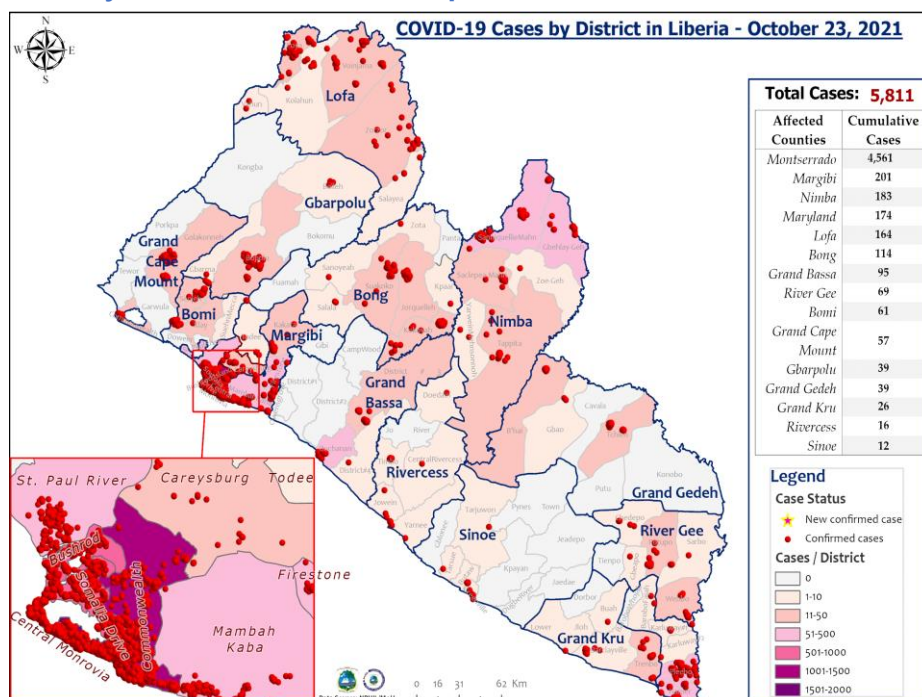
Outbreak

- ☞ Two (2) new confirmed cases were reported from Montserrado (dead) and Maryland Counties
- ☞ Since Epi week one, a total of three thousand seven hundred sixty-nine (3,769) confirmed cases have been reported
- ☞ Cumulatively, five thousand eight hundred eleven (5,811) confirmed cases recorded including 287 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

Figure 3: Geographical Distribution of Laboratory Confirmed COVID-19 Cases by Health Districts, Liberia, Epi week 1 – 43, 2021



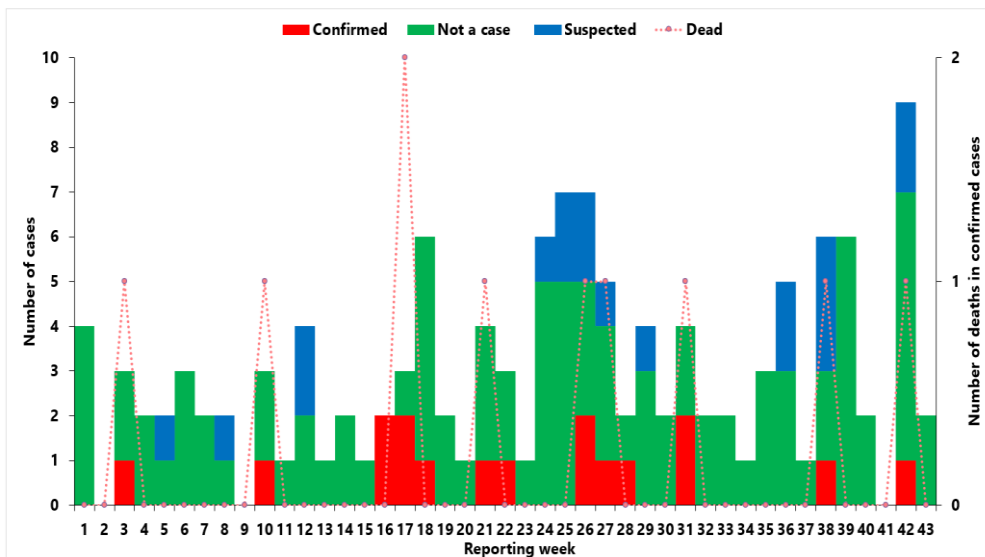
Viral Hemorrhagic Diseases

Lassa fever

- ✎ One suspected case was reported from Montserrado County
 - Specimen was collected and tested negative
- ✎ Cumulatively, since Epi week one, one hundred seventeen (117) suspected cases have been reported including twenty-one (21) deaths
 - 16 positive and 82 negative
 - Proportion of suspected cases with sample collected 95% (111/117)
 - Proportion of suspected cases with sample tested 90% (100/111)

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

Figure 4: Epi-classification of Lassa fever cases and confirmed deaths by reporting weeks, Liberia, Epi-week 1 - 43, 2021



Outbreak

Montserrado: Central Monrovia

A 9-year-old female resident of Kakata city, Margibi County, visited her mother on September 16, 2021, at 20th street, Monrovia. Her date of symptom onset was October 7, 2021. She was admitted at J.F.K hospital on October 9, 2021, where she was diagnosed and treated for malaria. She presented with the following signs and symptoms; vomiting, headache, diarrhea, fatigue, abdominal pain, muscles & joint pains, difficulty swallowing and generalized body weakness. On October 10, 2021, she was transfused with one unit of blood and the next day, she started bleeding from mouth and nose. The hospital then suspected of Lassa fever and contacted the district health team. On the same 11th of October, she died swab was collected and sent to NRL. Safe and dignified burial was conducted on October 11, 2021. A positive laboratory result was sent on October 13, 2021. A total of 15 contacts were line listed (14 HCWs and 1 family member). This is the second outbreak for Montserrado County since 2021 (CFR: 100%)

Grand Bassa: District #2

The confirmed case is a 40-year-old female, resident of Tutu Town community, District #2. Her date of symptom onset was 6th September 2021. On September 14, 2021 her sample was collected and sent to NRL for confirmation. She died September 14, 2021, safe and dignified burial was conducted. The positive laboratory was sent on September 16, 2021. A total of 5 contacts line listed (2 HCWs and 3 family members) all high risk. Since this year Grand Bassa have recorded a cumulative 3 outbreaks with 6 confirmed cases (CRF: 50%)

Public Health Actions

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

Yellow fever

- ✎ One suspected case was reported from Grand Cape Mount County
 - Specimen was collected and pending laboratory testing
- ✎ Cumulatively, since Epi week one, ninety-three (93) suspected cases have been reported with 67 negative, 20 pending testing, 1 positive and 5 specimens were not collected
 - Proportion of suspected cases with sample collected 95% (88/93)
 - Proportion of suspected cases with sample tested 76% (67/88)

Monkey pox

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

Ebola/Marburg Virus Disease

- 📁 One alert (dead) was reported from Maryland County
 - Specimen was collected and tested negative
- 📁 Cumulatively since Epi week one, eighty-one (81) alerts including 12 deaths have been reported

Diarrheal Diseases

Acute Bloody Diarrhea (Suspected Shigellosis)

- 📁 Eight (8) cases were reported from Margibi (2), Sinoe (2), Nimba (2), Grand Kru (1), and Bong (1) Counties
 - Two specimens were collected and pending laboratory testing
- 📁 Cumulatively, since Epi week one, three hundred seventy-six (376) suspected shigellosis cases have been reported with 176 specimens collected: 70 tested negative and 200 suspected

Severe Acute Watery Diarrhea (Suspected Cholera)

- 📁 Eleven (11) suspected cases were reported from Nimba (5), Bong (2), Bomi (2), Maryland (1) and Lofa (1) Counties
 - Three specimens were collected and pending testing
- 📁 Cumulatively, since Epi week one, two hundred thirty-one (231) suspected cholera cases have been reported

Other Reportable Diseases

Animal Bites (Human Exposure to Rabies)

- 📁 Fifty-two (52) animal bite cases were reported from Bong (12), Montserrado (10), Nimba (9), Grand Bassa (5), Maryland (4), Margibi (4), Lofa (3), Grand Kru (3), Grand Gedeh (1), Bomi (1) Counties
- 📁 Cumulatively, since Epi week one, one thousand four hundred-seven (1,407) animal bite cases have been reported

Public Health Actions

- 📁 Prophylaxis was administered to nine persons

Meningitis

- 📁 Zero suspected cases were reported
- 📁 Cumulatively, since Epi week one, twenty-eight (28) suspected cases have been reported

Events of Public Health Importance

Maternal Mortality

- 📁 Eight (8) deaths were reported from Montserrado (5), Lofa (1), Nimba (1) and Grand Kru (1)

- Counties
- 📁 Cause of death: sepsis (4), postpartum hemorrhage (3) and abruptio placenta (1)
- 📁 Death occurred at the health facility
- 📁 Cumulatively, since Epi week one, one hundred ninety-five (195) deaths have been reported with the MMR of 119 deaths by 100,000 livebirths (see Table 3)

Table 3: Cumulative Maternal Deaths Reported and Annualized Maternal Mortality Ratio by Counties, Liberia, Epi week 1 - 43, 2021

Reporting Counties	Current Week	Cumulative Maternal Death	% of Cumulative Maternal Death	Annualized Maternal Mortality Ratio
Bomi	0	5	3	128
Bong	0	15	8	93
Gbarpolu	0	4	2	103
Grand Bassa	0	9	5	87
Grand Cape Mount	0	1	1	17
Grand Gedeh	0	3	2	51
Grand Kru	1	4	2	148
Lofa	1	12	6	93
Margibi	0	9	5	92
Maryland	0	6	3	95
Montserrado	5	79	41	147
Nimba	1	37	19	172
Rivercess	0	2	1	60
River Gee	0	1	1	32
Sinoe	0	8	4	168
Liberia	8	195	100	119

Note: The estimated maternal mortality ratio for 2019-20 LDHS is 742 maternal deaths per 100,000 live births. 4.3% of the overall population

Neonatal Mortality

- ☞ Twenty-three (23) deaths were reported from Montserrado (15), Lofa (2), Grand Bassa (2), Sinoe (2), Grand Cape Mount (1) and Maryland (1) Counties
- ☞ Causes of deaths: birth asphyxia (14), sepsis (7), and preterm (2)
- ☞ All deaths occurred at the health facility
- ☞ Cumulatively, since Epi week one, six hundred and thirty-eight (638) deaths have been reported

Unexplained Death

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

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

- ☞ Fourteen (14) cases were reported from Lofa (4), Bomi (4), Montserrado (2), Sinoe (2), Grand Kru (1) and Rivercess (1) Counties
- ☞ Cumulatively, since Epi week one, five hundred thirty (530) events have been reported with Montserrado County accounting for 34%
 - 8% (45) of the events related to nOPV2
 - 3% (15) of the events related to TCV
 - 84% (445) of the events related to COVID-19
 - 2% (12) of the events related to ADR
 - 3% (13) of the events related to others (BCG, PENTA, Measles, Hepatitis B)

Public Health Actions

- ☞ All events were investigated, categorized as *non-serious AEFI and symptomatically treated*
- ☞ All reporting tools are currently being distributed across the 15 counties
- ☞ Active case search and community engagement ongoing
- ☞ Two Causality Assessment Expert Committee sittings have been conducted

Figure 5: Geographical Distribution of AEFI/ADR Events, Liberia, Epi week 1 – 43, 2021



Cross Border Surveillance Update

- ☞ A total of 10, 869 travelers recorded for the week with incoming travelers accounting for 53% and outgoing travelers 47%
- ☞ Zero traveler was reactive for COVID-19

Table 4: Cross border activity at the PoE for Incoming and Outgoing Travelers, Liberia, Epi week 43, 2021

Type of Ports	Point of Entry	Weekly total	Arrival	Departure	Yellow Book Issued	Yellow Book Damage	Card Replaced	Travelers Vaccinated	Alerts Verified	COVID-19 Reactive
Airport	James S. Paynes	54	32	22	0	0	0	0	0	0
	Robert Int'l Airport	2944	1486	1458	30	22	0	8	0	0
Seaport	Freeport of Monrovia	158	79	79	0	0	0	0	0	0
	Harper	0	0	0	0	0	0	0	0	0
	Buchanan Port	66	33	33	0	0	0	0	0	0
	Bo Water Side	878	556	322	22	22	0	0	0	0
	Ganta	159	118	41	6	6	0	0	0	0
Land Crossing	Yekepa	51	30	21	0	0	0	0	0	0
	Loguatu	37	14	23	0	0	0	0	0	0
	Yeala	1209	626	583	0	0	0	0	0	0
	Kpasagizia	416	210	206	0	0	0	0	0	0
	Safedu	1057	487	570	0	0	0	0	0	0
	Konadu	747	478	269	0	0	0	0	0	0
	Bolinquidu	971	461	510	0	0	0	0	0	0
	Lawalazu	654	407	247	0	0	0	0	0	0
	Foya Tengia	406	209	197	0	0	0	0	0	0
	Sorlumba	374	201	173	0	0	0	0	0	0
	Mendicoma	318	150	168	0	0	0	0	0	0
	Worsonga	370	217	153	0	0	0	0	0	0
	Total travelers	10,869	5,794	5,075	58	50	0	8	0	0

Note: Yellow book issue for both arrival and departure; Vaccination coverage for both arrival and departure



Liberia IDSR Epidemiology Bulletin

2021 Epi-week 43 (October 18 – 23, 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	9	5	8	5	6	5	6	4	6	7	6	6	6	10	93		
Vaccine Preventable Diseases	Acute Flaccid Paralysis (Suspected Polio)	A	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	128	0
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Measles	A	2	0	0	1	0	2	0	0	0	1	3	4	1	0	1	15	410	55
		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	1	0	0	0	0	0	0	1	0	0	0	0	2	28	0
		D	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	11	0
	Yellow fever	A	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	93	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	68	0
		D	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	13	0
	Lassa fever	A	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	96	4
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	12
Influenza-Like Illnesses	COVID-19	A	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	3767	3769
		D	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0
Diarrheal Diseases	Acute Bloody Diarrhoea (Shigellosis)	A	0	1	0	0	0	0	1	0	2	0	0	2	0	0	2	8	376	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	2	2	0	0	0	0	0	1	0	1	0	5	0	0	0	11	231	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	1	0	0	5	1	0	0	0	8	195	
	Neonatal Mortality	D	0	0	0	2	1	0	0	2	0	1	15	0	0	0	2	23	638	
	Adverse Events Following Immunization (AEFI)	A	4	0	0	0	0	0	1	4	0	0	2	0	1	0	2	14	531	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	6	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	1	12	0	5	0	1	3	3	4	4	10	9	0	0	0	52	1407	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	0	0	0	0	0	0	0	0	0	0	28	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			9	17	0	9	2	3	6	11	6	9	38	21	2	0	7	140	8048	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

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Ministry of Health
WHO Liberia Office
US 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.