



Liberia IDSR Epidemiology Bulletin

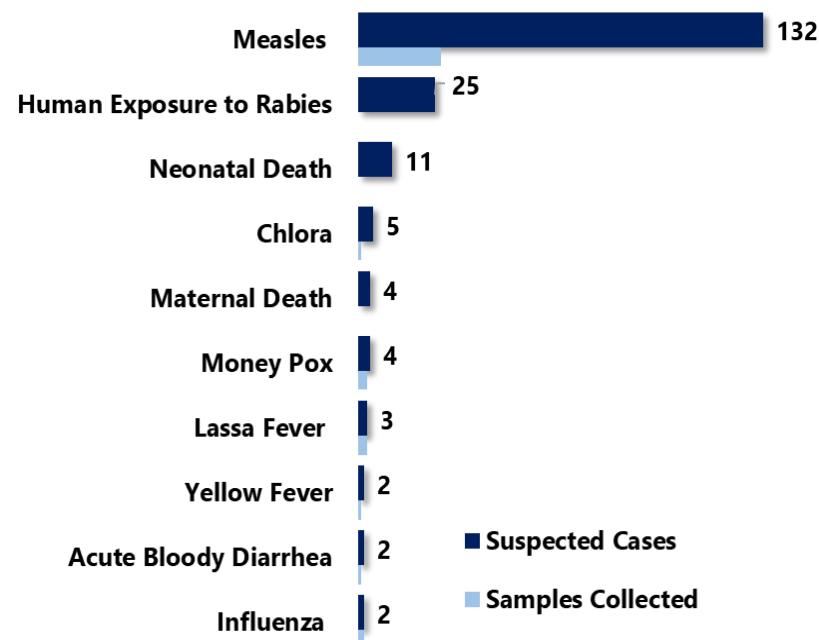
Epi-week 50 (December 12- 18, 2022)

Country Population: 5,104,413 | Volume 17 Issue 50 | Dec 12- 18, 2022

Data Source: CSOs from 15 Counties and Laboratory

Highlights

Figure 1: Public Health Events Reported



Keynotes and Events of Public Health Significance

- ♦ **A total of 190 events** of public health importance including **16 deaths** reported
- ♦ **Completeness and timeliness** of health facility reports were both **100%** respectively
- ♦ **Ongoing Lassa fever** outbreak in **4** Counties
- ♦ **Ongoing Measles** outbreak in **13** Counties
- ♦ **Ongoing Monkeypox** outbreak in Rivercess county

Adverse Events Following Immunization/Adverse Drug Reaction

Reporting Coverage

Table 1: Health Facility Weekly IDSR Reporting Coverage, Liberia, Epi-week 50, 2022

County	Expected Reports From HF*	Reports Received	Received on Time	Completeness (%)	Timeliness (%)
Bomi	26	26	26	100	100
Bong	57	57	57	100	100
Gbarpolu	16	16	16	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	23	22	22	99	99
Lofa	66	66	66	100	100
Margibi	68	68	68	100	100
Maryland	27	27	27	100	100
Montserrado	326	326	324	100	99
Nimba	88	88	88	100	100
Rivercess	21	21	21	100	100
River Gee	20	20	20	100	100
Sinoe	37	37	37	100	100
Liberia	869	868	868	99	99

869(99%)
Health facilities reported IDSR data

93 (100%)
Health districts reported IDSR data

868(99%)
Health facilities reported timely IDSR data

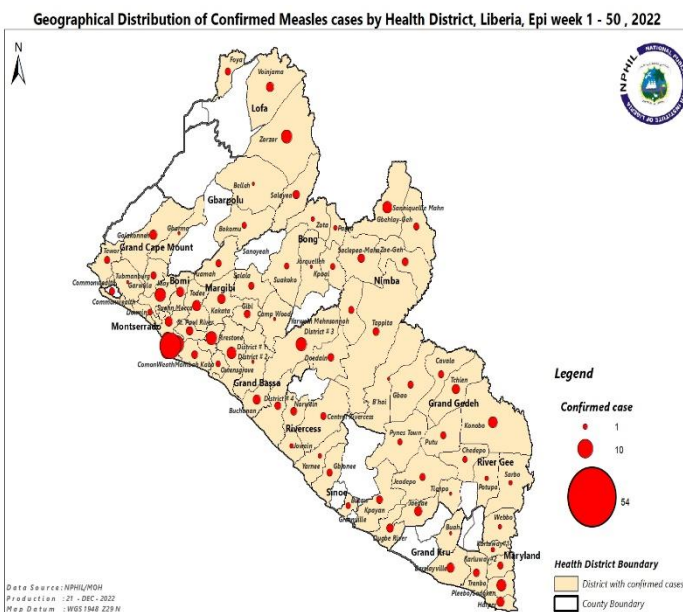
- ♦ The national target for weekly IDSR reporting is 80%. Health facility timeliness is monitored at the health district level
- ♦ All counties submitted weekly IDSR reports to the national level on time

Legend: ≥80 <80

Vaccine-Preventable Diseases

Measles

- ✎ One hundred thirty-two (132) suspected cases were reported: Montserrado (40 including one death), Maryland (23), Grand Kru (23), Grand Bassa (16), Lofa (5), Bomi (5), Nimba (5), Bong (4), Margibi (3), River Gee (3), Grand Gedeh (3), Rivercess (1), and Grand Cape Mount (1) Counties
- ✎ Twenty-seven (27) specimens collected and pending testing
- ✎ Vaccination status among suspected cases
 - Vaccinated: (63) 48%
 - Not vaccinated: (49) 37%
 - Unknown: (20) 15%
- ✎ Age distribution among suspected cases
 - < 5 years: (64) 48%
 - ≥5 years: (68) 52%
- ✎ Cumulatively, eight thousand six hundred seventy-two (8,672) suspected cases have been reported including 86 deaths
 - (8,088) 93% confirmed:
 - ✓ Laboratory confirmed: (488/8,088) 6%
 - ✓ Clinically compatible: (580/8,088) 7%
 - ✓ Epidemiologically linked: (7,020/8,088) 87%
 - Non-measles discarded: 584
 - ✓ 58 tested positive for Rubella
- ✎ Proportion of samples collected: (1,396/8,672) 16%
- ✎ Proportion of samples tested: (1,072/1,396) 77%
- ✎ CFR: (86/8,088) 1.1%



Outbreak

Measles: (Situation update from 13th December 2021- 18th December 2022)

Montserrado County: Commonwealth, Bushrod, Somalia Drive, St. Paul, Central Monrovia, Todee, and Careysburg Districts

- ✎ Forty (40) new cases were reported from Bushrod (30), Todee (6), Somalia Drive (3 including 1 death), and Central Monrovia (1) Districts
- ✎ A total of 4,285 cases have been confirmed including sixty-seven (67) deaths
 - Median age 6 (1 month-59 years)
 - Vaccinated - (2,065/4,285) 48%
 - Not Vaccinated- (2,153/4,285) 50%
 - CFR (67/4,285) 1.6%

Bong County: Suakoko, Jorquelleh, Salala, and Kokoyah Districts (Situation update from 20th December 2021- 18th December 2022)

- ✎ No new case was reported
- ✎ A total of 366 cases have been confirmed including two (2) deaths
 - Median age 8 (1 month - 38 years)
 - Vaccinated - (149/366) 40.7%
 - Not vaccinated - (215/366) 58.7%
 - CFR (2/366) 0.5%

Lofa County: Voinjama, Foyah, Zorzor, and Salayea Districts (Situation update from 21st January- 18th December 2022)



Liberia IDSR Epidemiology Bulletin

Epi-week 50 (December 12- 18, 2022)

👉 Five (5) new cases were reported from Zorzor District

👉 A total of 189 cases have been confirmed

- Median age: 10 (2 months-46years)
- Vaccinated: (173/189) 92%
- Not vaccinated: (16/189) 8%

Nimba County: Gbehlay-Geh, Saclepea-Mah, Zoe-Geh, Tappita, Yarwin Mehnsonnoh, and Sanniquellie-Mah Districts (Situation update from 20th January-18th December 2022).

👉 Five (5) new cases were reported from Sanniquellie-Mah (2), Saclepea-Mah (2), and Zoe-Geh (1) Districts

👉 A total of 737 cases have been confirmed including one (1) death

- Median age 7 (2 months- 48years)
- Vaccinated: (174/737) 23.6%
- Not Vaccinated: (562/737) 76.3%
- CFR (1/737) 0.1%

Maryland County: Harper, Karluway II, and Pleebo Districts (Situation update from 1st February- 18th December 2022)

👉 Twenty-two (22) new cases were reported from Pleebo (18), and Karluway II (4) Districts

👉 A total of 316 cases have been confirmed

- Median age 7 (7 months-48 years)
- Vaccinated: (40/316) 13%
- Not Vaccinated: (276/316) 87%

Grand Bassa County: District #1, District #2, District #3 A&B, and Buchanan Districts (Situation update from 22nd April -18th December 2022)

👉 Fifteen (15) new cases were reported from Buchanan (11), and District #4 (4) Districts

👉 A total of 732 cases have been confirmed including 7 deaths

- Median age 7 (1 month-45 years)
- Vaccinated: (288/732) 39%
- Not Vaccinated: (437/732) 60%
- CFR (7/732) 1%

Bomi County: Klay, Senjeh, and Suehn Mecca Districts (Situation update from 14th March-18th December 2022)

👉 Five (5) new cases were reported from Klay (4), and Senjeh (1) Districts

👉 A total of 80 cases have been confirmed including 5 deaths

- Median age 7 (1 month-48 year)
- Vaccinated: (35/80) 44%
- Not Vaccinated: (40/80) 50%
- CFR (5/80) 6%

Grand Kru: Barclayville, and Dorbor Districts (Situation update from 14th March – 18th December 2022)

👉 Twenty-three (23) new cases were reported from Barclayville (14), and Trehn (9) Districts

👉 A total of 193 cases have been confirmed

- Median age 9 (53 months-18 years)
- Vaccinated: (146/193) 76%
- Not Vaccinated: (47/193) 24%

Rivercess: Doedain, and Jowein Districts (Situation update from 16th March – 11th December 2022)

👉 One (1) new case was reported from Jowein District

👉 A total of 78 confirmed cases have been confirmed including 1 death

- Median age 5 (6 months -36 years)
- Vaccinated: (60/78) 76.9%



Liberia IDSR Epidemiology Bulletin

Epi-week 50 (December 12- 18, 2022)

- Not Vaccinated: (17/78) 21.8%
- CFR (1/78) 1.3%

Margibi County: Firestone, Gibi, Kakata, and Mamba Kaba Districts (Situation update from 21st February–18th December 2022)

- 📁 Three (3) new cases were reported from Gibi (2), and Kakata (1) Districts
- 📁 A total of 598 cases have been confirmed
 - Median age 6 (4 months - 67 years)
 - Vaccinated: (293/598) 49%
 - Not Vaccinated: (305/598) 51%

Grand Cape Mount County: Gola Konneh, District (Situation update from 10th March –18th December 2022)

- 📁 Three (3) new cases were reported from Gola Konneh District
- 📁 A total of 120 cases have been confirmed including 3 deaths
 - Median age 12 (2 months – 45 years)
 - Vaccinated: (106/120) 88%
 - Not Vaccinated: (11/120) 9%
 - CFR: (3/120) 3%

Grand Gedeh County: Tchien, Konobo, B'hai, and Gbao Districts (Situation update from 10th March–18th December 2022)

- 📁 One (1) new case was reported from Gbao District
- 📁 A total of 143 cases have been confirmed
 - Median age 6 (6 months-35 years)
 - Vaccinated (51/143) 36%
 - Not Vaccinated: (92/143) 64%

Sinoe: Gblonee, Dugbeh River, Kpanyan, Jaedae, and Jedepo Districts (Situation update from 19th May – 18th December 2022)

- 📁 No new case was reported
- 📁 A total of 144 cases have been confirmed
 - Median age 6 (2 months-38 years)
 - Vaccinated: (71/144) 49%
 - Not Vaccinated (73/144) 51%

Public Health Response

I Coordination

- 📁 Ongoing monitoring of measles surveillance data with the provision of feedback to relevant stakeholders and developmental partners

II. Epidemiological Surveillance

- 📁 Active case search and line listing of cases ongoing

III. Case Management

- 📁 Isolation and treatment of cases ongoing

IV. Immunization

- 📁 Routine immunization intensified across the country targeting 9 to 23 months

V. Laboratory

- 📁 Four hundred eighty-eight (488) cases have been confirmed by the laboratory the 15 counties

VI. Risk Communication and Community Engagement



Liberia IDSR Epidemiology Bulletin

Epi-week 50 (December 12- 18, 2022)

- Community engagement and health education ongoing in affected counties

Next steps

- NPHIL/partners to procure essential drugs for case management
- Develop national Measles preparedness and response guide.
- Develop and validate the national Measles and Rubella Surveillance guide.
- Develop and validate Measles SOP

Acute Flaccid Paralysis (AFP)

- Zero case reported
- Cumulatively, one hundred seven (107) cases have been reported
 - 106 specimens collected
 - 86 tested and 20 pending testing
 - 70 negative
 - 16 Non-polio enteroviruses (NPENT)

Neonatal Tetanus

- Zero case reported
- Cumulatively, forty-nine (49) clinically diagnosed cases reported

Influenza-Like Illnesses

Coronavirus Disease (COVID-19)

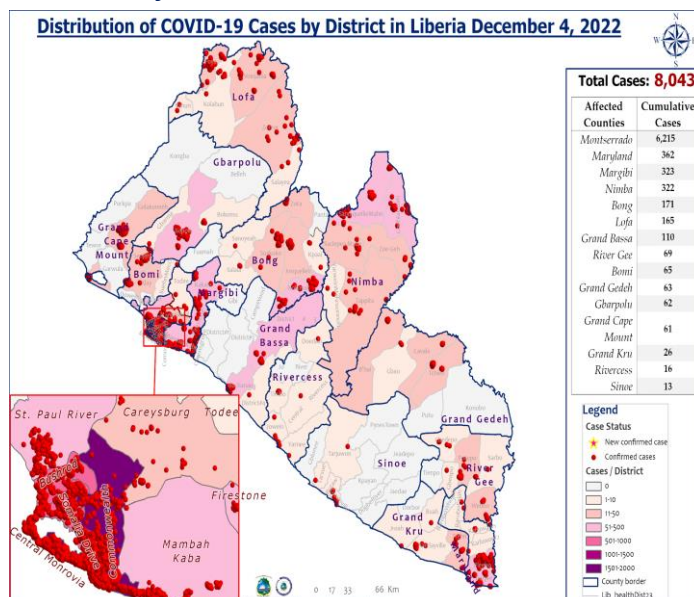
Outbreak

- No new confirmed case was reported
- A total of one thousand one hundred-seven (1,107) confirmed cases have been reported since epi week 1
- Cumulatively, eight thousand, fourteen (8,014) confirmed cases, including 294 deaths
 - 601 healthcare workers
- A total of 17,827 contacts have been generated
 - 1,772 healthcare workers

Public Health Actions

- IMS coordination meeting ongoing.
- Surveillance activities including active case search and case investigation ongoing in the affected counties using WHO interim guidelines
- Case management ongoing for confirmed cases
- Compulsory testing among outgoing travelers as required by the country of destination ongoing

Figure 2: Geographical Distribution of Laboratory Confirmed COVID-19 Cases by Health Districts, Liberia, as of Dec. 12-18, 2022



Influenza Like Illnesses

- Two (2) cases reported from Montserrado County
- Specimen was collected and pending testing
- Cumulatively, eighty-five (85) cases have been reported



Liberia IDSR Epidemiology Bulletin

Epi-week 50 (December 12- 18, 2022)

Viral Hemorrhagic Diseases

Lassa fever

- 📁 Three (3) suspected cases were reported from Bong County
- 📁 Specimens were collected and tested: one positive and two negative
- 📁 Cumulatively, one hundred ninety-five (195) suspected cases have been reported including 32 deaths
 - Seventy (70) confirmed cases were recorded including 23 deaths
 - One hundred nineteen (119) negatives
 - Case Fatality Rate: (23/70) 33%
 - Proportion of suspected cases with a sample collected (194/195) 99%
 - Proportion of suspected cases with sample tested (189/194) 97%
 - 3 specimens rejected (inadequate specimen, wrong packaging, wrong collection tube)
 - 1 not collected

Outbreak

Lassa fever disease: (Sitrep update as of December 18, 2022)

- 📁 One (1) new confirmed case reported from Bong County
- 📁 Fifty-one (51) contacts under 21 days' follow-up
- 📁 Cumulatively, seventy (70) laboratory-confirmed cases including 23 deaths reported (CFR=33%)

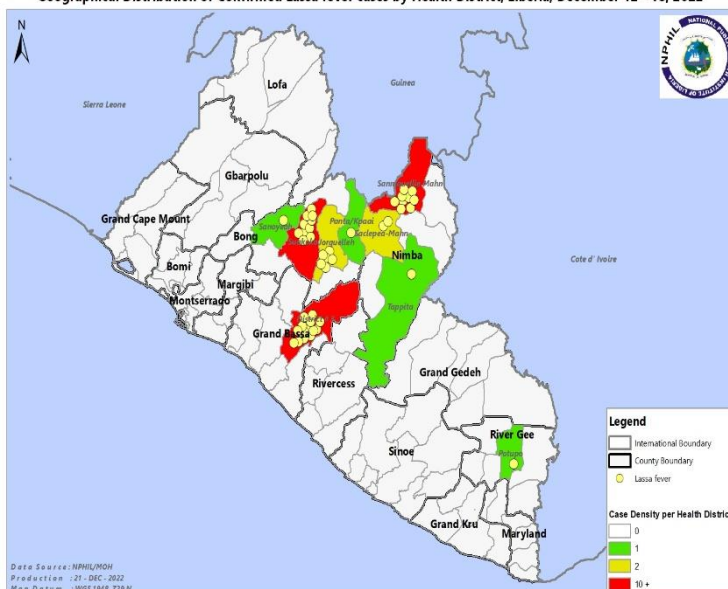
Bong County: Suakoko District

- 📁 One (1) new confirmed case was reported Suakoko District
- 📁 Cumulative confirmed cases: Twenty-three (23)
 - CFR: (5/23) 22%
- 📁 Districts that have reported confirmed cases since this year:
 - Suakoko District: 18 cases (4 deaths)
 - Jorquelleh District: 3 cases (1 death)
 - Sanoyea District: 1 case
 - Kpaai District: 1 case
- 📁 Cumulatively, 222 contacts including 129 HCWs have been recorded
 - Eight (8) contacts from the confirmed case in River Gee are on follow up

Public Health Measures

- 📁 Risk communication interventions
 - Daily health talk in all health facilities on priority diseases
 - Airing of LF preventive and control messages
- 📁 Case Management
 - Confirmed case is isolated and being managed
- 📁 Surveillance
 - Active case searches ongoing in the affected health districts
 - Heighten surveillance in all affected communities and districts daily situational reports are shared regularly at the national level
 - Daily situational reports are shared regularly at the national level

Geographical Distribution of Confirmed Lassa fever cases by Health District, Liberia, December 12 - 18, 2022





Liberia IDSR Epidemiology Bulletin

Epi-week 50 (December 12- 18, 2022)

- A one-day district meeting on Lassa fever prevention and control creating awareness of the prevention of Lassa fever was conducted in two districts in (Jorquelleh & Suakoko districts in Bong County)
- Affected communities were empowered with the WASH package to enable them to undertake short-term interventions that will improve the sanitation situation in each community thereby helping in Lassa fever prevention and control

Grand Bassa County: District #3 A&B

- 👉 No new confirmed case reported
- 👉 Cumulative confirmed cases: Twenty-eight (28)
 - CFR (6/28) 21%
 - All reported from District #3 A&B
- 👉 Cumulatively, 125 contacts including two healthcare workers were generated since this year
 - Fourteen (14) contacts are currently under follow-up

Public Health Measures

- 👉 NPHIL provides technical support to the county
 - A one-day district meeting on Lassa fever prevention and control creating awareness of the prevention of Lassa fever was conducted in two districts (District #3 A&B and district 2 in Grand Bassa county)
 - Affected communities were empowered with the WASH package to enable them to undertake short-term interventions that will improve the sanitation situation in each community thereby helping in Lassa fever prevention and control
 - Health workers and visitors are encouraged to enhance IPC practices by regular washing of hands
 - Limited community engagement

Nimba County: Sanniquellie-Mah District

- 👉 No new confirmed case reported
- 👉 Cumulative confirmed cases: Seventeen (17)
 - CFR (11/17) 65%
- 👉 Districts with confirmed cases since this year:
 - Sanniquellie-Mah: 13 cases (9 deaths)
 - Sacleapea-Mah: 3 cases (1 death)
 - Tappita: 1 case (dead)
- 👉 Cumulatively, 294 contacts including 187 HCWs have been generated since this year
 - Twenty-nine (29) contacts are currently under follow-up

Public Health Measures

- 👉 NPHIL and MOH providing technical support to the county
 - A one-day district meeting on Lassa fever prevention and control creating awareness of the prevention of Lassa fever was conducted in two districts in (Sanniquellie-Mah & Saclepea Mah districts in Nimba County)
 - Affected communities were empowered with the WASH package to enable them to undertake short-term interventions that will improve the sanitation situation in each community thereby helping in Lassa fever prevention and control
 - Health workers and visitors are encouraged to enhance IPC practices by regular washing of hands

River Gee County: Putopo District

- 👉 No new confirmed case reported
- 👉 Cumulative confirmed case: One
 - CFR (1/1) 100%



Liberia IDSR Epidemiology Bulletin

Epi-week 50 (December 12- 18, 2022)

👉 Districts with confirmed cases since this year:

- Putopo: 1 case (dead)

👉 Cumulatively, 14 contacts including 5 HCWs have been generated since this year

- All contacts have gone 21 days follow-up

Public Health Measures

👉 Infection Prevention Control

- Infection prevention control actively heighten at the health facility
- Ensure adherence to IPC practices by healthcare workers

👉 Case Management

- No case in isolation

👉 Surveillance

- All 14 contacts under monitoring and follow-up
- Active case searches ongoing in the affected communities and health facilities

Yellow fever

👉 Two (2) new suspected cases were reported from Nimba and Maryland Counties

👉 One specimen was collected and pending testing

👉 Cumulatively, eighty-eight (88) suspected cases have been reported

- Proportion of suspected cases with samples collected (78/88) 89%
- Proportion of suspected cases with samples not collected (10/86) 12%

👉 Samples collected and tested

- Tested negative (67/78) 86%
- Pending testing (6/78) 8%
- Not transported (5/78) 6%

Ebola Virus Disease

👉 Zero suspected case reported

👉 Cumulatively, one (1) suspected case has been reported from Grand Cape Mount (tested Negative)

Diarrheal Diseases

Acute Bloody Diarrhea (Suspected Shigellosis)

👉 Two (2) cases were reported from Grand Gedeh and Maryland Counties

👉 One specimen was collected and pending testing

👉 Cumulatively, four hundred thirty-nine (439) suspected cases reported

👉 Two hundred twenty-one (221) specimens were collected

👉 One hundred seventy (170) received by the lab

- 11 rejected (inadequate specimen, wrong packaging)
- 25 specimens discarded
- 134 tested
 - 133 negatives
 - 1 positive (epi week 24, from Grand Gedeh county)

Severe Acute Watery Diarrhea (Suspected Cholera)

👉 Five (5) suspected cases were reported from Grand Kru (2), Grand Gedeh (1), Nimba (1), and River Gee (1) counties

👉 One specimen was collected and pending testing

👉 Cumulatively, three hundred sixty-eight (368) suspected cases reported

- Two hundred eleven (211) specimens collected
- One hundred thirty-three (133) received by the lab
 - 5 rejected (inadequate specimen, wrong packaging, specimen not label)
 - 43 specimens discarded



Liberia IDSR Epidemiology Bulletin

Epi-week 50 (December 12- 18, 2022)

- 85 tested negatives

Other Reportable Diseases

Animal bite (Human Exposure to Rabies)

- 👉 Twenty-five (25) animal bite cases were reported: Grand Kru (4), Rivercess (3), Nimba (3), Maryland (3), Lofa (2), Bomi (2), Montserrado (2), Grand Gedeh (2), Margibi (1), Bong (1), Grand Bassa (1), and Grand Cape Mount (1) Counties
 - No PEP was administered
- 👉 Cumulatively, two thousand thirty-one (2,031) animal bite cases reported
 - Dog bites account for 99.9%
 - Snake bite account for 0.1%
 - 1-4 doses (PEP) administered to (392/2,031) 19% of patients

Public Health Actions

- 👉 Ongoing monitoring and follow-up of cases
- 👉 Quarantined (6/25) 24% of suspected rabid dogs

Meningitis

- 👉 Zero cases reported
- 👉 Cumulatively, thirty-four (34) suspected cases were reported with one (1) confirmed
 - Proportion of suspected cases with samples collected (20/34) 59%
 - Proportion of suspected cases with samples not collected (14/34) 41%
 - Proportion of sample tested (15/20) 75%
 - Tested negative (14/20) 70%
 - Pending testing (5/34) 15%

Monkeypox

- 👉 Four (4) suspected cases were reported from Sinoe (2), Grand Bassa (1), and Rivercess (1) Counties
- 👉 Three specimens were collected: 1 tested negative and 2 pending
- 👉 Cumulatively, sixty-five (65) suspected cases were reported with four (4) confirmed

Outbreak

Monkeypox: (Sitrep update as of December 18, 2022)

- 👉 One (1) new suspected case was reported from Rivercess County
- 👉 No specimen was collected
 - The suspected case is a contact of the previously confirmed case
- 👉 Cumulatively, one confirmed case reported
- 👉 Six (6) contacts under 21 days' follow-up (2 healthcare workers and 4 family members)
- 👉 Risk assessment: 2 high, 2 low, and 2 medium

Rivercess County: District Jay Judoe Town in Jo-River

The current case is a 53-year-old male teacher from Belvenee, Kploh Clinic catchment community. Symptoms onset was November 17, 2022. He presented with body pain, difficulty swallowing, sore throat, abdominal pain, and severe headache, chills, fluid-filled rashes on the entire body including palms with a history of herbal home treatment. The case was investigated by the surveillance team and three separate specimens (blood/serum, crusts, and lesion swab) were collected and sent to the National Public Health Reference Laboratory (NPHRL) on November 28, 2022. On



Liberia IDSR Epidemiology Bulletin

Epi-week 50 (December 12- 18, 2022)

December 5, 2022, the case was confirmed Monkeypox positive. The case traveled from Jay Judoe Town in Jo-River District, Rivercess County around the last week of October 2022 to Belvenee Town in Central "C" District for herbal treatment. He had contact with bush or domestic animals in Belvenee where he was seeking herbal treatment

Public Health Measures

I. Coordination

- National Public Health Institute of Liberia (NPHIL) and the Ministry of Health (MOH) along with partners are also providing technical support to the County Health Team
- Incident Management System activated in Rivercess County and coordinating the response
- The County Rapid Response Team has been activated to assess the progress of the confirmed Monkeypox response activities

II. Epidemiological Surveillance

- Active case search and contact tracing ongoing in the affected district
- Orientation of facilities' staff and Community Health Assistances (CHAs) on Monkeypox case definition
- Development and dissemination of Sitrep by affected county and national

III. Laboratory

- The National Public Health Reference Laboratory continues testing of Monkeypox samples
- One (1) Monkeypox case has been confirmed

IV. Case Management and IPC

- Case isolated and supportive management is ongoing

V. Risk Communication and Community Engagement

- Community engagement and awareness with local leaders and community development health committees in the affected community and surrounding towns ongoing
- Community awareness ongoing via the HSFP/CHSS/DSO in the affected community and surrounding towns and villages

Key Challenges

- No specimen collection kits for monkey pox
- Limited support to enhance active case finding in Monkey pox affected and neighboring districts
- No support from county-based partners for response activities
- No communication card for response activities
- Lack of Calamine lotion for patient use

Events of Public Health Importance

Maternal Mortality

- 📁 Four (4) deaths were reported from Nimba (2), Margibi (1), and Montserrado (1) Counties
- 📁 Reported causes: PPH (4)
- 📁 Reported sites:
 - Health facility: (4) 100%
- 📁 Cumulatively, two hundred seventy (270) deaths have been reported



Liberia IDSR Epidemiology Bulletin

Epi-week 50 (December 12- 18, 2022)

- Proportion of deaths reviewed (49/270) 18%
- Proportion of community deaths (29/270) 11%
 - Proportion of community deaths reviewed: (8/29) 28%

Neonatal Mortality

- 👉 Eleven (11) deaths were reported: Nimba (4), Gbarpolu (3), Montserrado (3), and River Gee (1) Counties
- 👉 Reported causes: Birth asphyxia (5), neonatal sepsis (5), and preterm (1)
- 👉 Reported sites:
 - Health facility: (11) 100%
- 👉 Cumulatively, seven hundred forty-five (745) deaths have been reported

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

- 👉 Zero cases were reported
- 👉 Related vaccine:
 - Penta (6/17) 35%
 - COVID-19 (11/17) 65%
- 👉 Cumulatively, five hundred eighty-four (584) events were reported with (409/584) 70% related to COVID-19
- 👉 Proportion of COVID-19 vaccine
 - J&J vaccine – (288/409) 70.4%
 - AstraZeneca – (6/409) 1.5%
 - Pfizer – (115/409) 28.1%
- 👉 Proportion of other vaccine-related events – (175/584) 30%

Public Health Actions

- 👉 All events were investigated, categorized as non-serious AEFI, and symptomatically treated
- 👉 Active case search and community engagement ongoing

Border Surveillance Update

- 👉 A total of 10,407 travelers were recorded for the week with incoming travelers accounting for 51% (5,350/10,407)

Table 2: Border activity at the PoE for Incoming and Outgoing Travelers, Liberia, Epi week 50, 2022

Type of Ports	Point of Entry	Weekly total	Arrival	Departure	Total travelers with YB	Yellow Book Damage	Card Replaced	Travelers Vaccinated against YF & Issued	Alerts detected/ Verified	COVID-19 Reactive	Evidence of COVID-19 vaccination card/certificate
Airport	James S. Paynes	132	71	61	42	0	0	0	0	0	90
	Robert Int'l Airport	4661	2347	2314	0	0	0	0	0	0	0
Seaport	Freeport of Monrovia	182	91	91	182	0	0	0	0	0	182
	Buchanan Port	130	65	65	130	0	0	0	0	0	130
Land Crossing	Bo Water Side	708	372	336	602	0	0	0	0	0	584
	Ganta	213	105	108	67	10	7	0	1	0	48
	Yekepa	50	31	19	24	0	0	0	0	0	28
	Loguatu	294	134	160	229	0	0	0	0	0	203
	Yeala	440	188	252	350	0	0	0	0	0	300
	Kpazagizzia	99	54	45	80	0	0	0	0	0	50
	Bolongoidu	88	58	30	58	0	0	0	0	0	60
	Lawalazu	131	83	48	100	0	0	0	0	0	90
	Safedu	231	138	93	179	0	0	0	0	0	150
	Konadu	229	140	89	200	0	0	0	0	0	119
	Foya Tengia	771	383	388	700	0	0	0	0	0	165
	Mendicoma	1065	590	475	900	0	0	0	0	0	300
	Sorlumba	615	300	315	500	0	0	0	0	0	165
	Worsonga	368	200	168	200	0	0	0	0	0	150
Total		10,407	5,350	5,057	4,543	10	7	0	1	0	2,814

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



Liberia IDSR Epidemiology Bulletin

Epi-week 50 (December 12- 18, 2022)

Public Health Measures

National level

- 👉 National bridging workshop annual review meeting
- 👉 Distribution of tablets and laptops ongoing at national and 7 designated POEs
- 👉 Ongoing distribution of post-exposure prophylaxis for rabies to counties
- 👉 Ongoing Environmental interventions in Lassa fever hotspot communities
- 👉 Continued support for operational activities ongoing

County-level

👉 Surveillance

- Publication of situational reports
- Active case search ongoing in affected and surrounding communities

👉 Case Management

- Administration of PEP and ribavirin
- Management of measles cases ongoing

Appendix

Summary of Immediately Reportable Diseases, Conditions, and Events by County

		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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	106	0
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Measles	A	5	4	0	16	1	3	23	5	3	23	40	5	1	3	0	132	8,672	488
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	84	0
	Neonatal Tetanus	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49	0
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
	Yellow fever	A	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	2	88	0
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Viral Hemorrhagic Diseases	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	1	0
	Ebola Virus 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	1	0
	Lassa fever	A	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	172	70
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	23
Influenza-Like Illnesses	COVID-19	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8,014	8	
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	294	
	Influenza Like Illnesses	A	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2	85	0
		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	0	0	0	1	0	0	0	0	0	2	439	1
		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	1	2	0	0	0	0	1	0	1	0	5	368	0
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Events of Public Health Interest	Maternal Mortality	D	0	0	0	0	0	0	0	1	0	1	2	0	0	0	4	270		
	Neonatal Mortality	D	0	0	3	0	0	0	0	0	0	3	4	0	1	0	11	745		
	Adverse Events Following Immunization (AEFI)	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	558	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	1	0	0	0	0	0	0	0	1	0	2	4	65	2	
		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 Rabies (Suspected Human)	A	2	1	0	1	1	2	4	2	1	3	2	3	3	0	0	25	2,031	0
		D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	Meningitis	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	1
		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		7	8	3	18	2	7	29	7	5	28	48	16	5	5	2	190	21807	887.01	

D = Dead A = Alive

Notes

- 👉 **Completeness** refers to the proportion of expected weekly IDSR reports received (target: $\geq 80\%$)
- 👉 **Timeliness** refers to the proportion of expected weekly IDSR reports received by the next level on time (target: $\geq 80\%$). The time requirement for weekly IDSR reports:
 - Health facility - required on or before 5:00 pm every Saturday to the district level
 - Health district - required on or before 5:00 pm every Sunday to the county level
 - County - required on or before 5:00 pm 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: $\geq 2/100,000$)
- 👉 **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 been 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.