



Weekly Update

Liberia Public Health

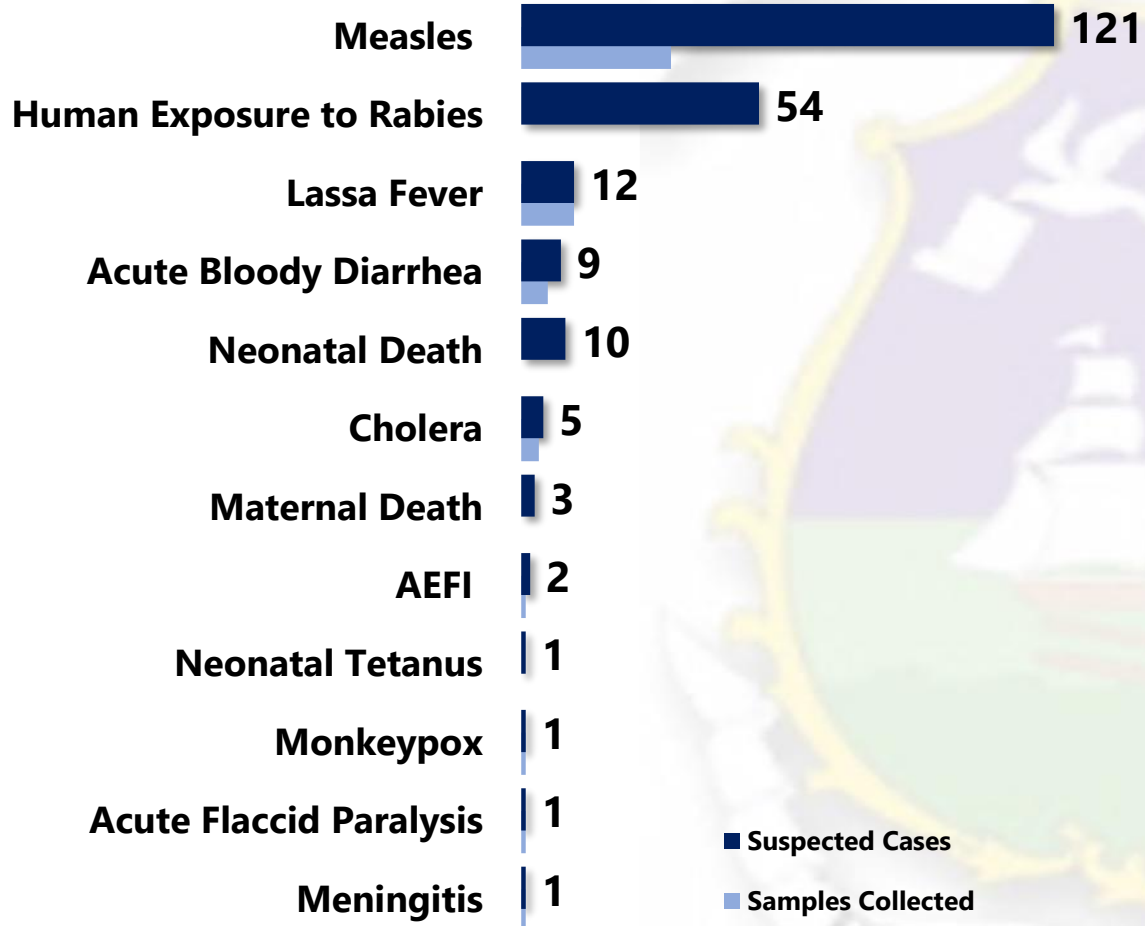
Surveillance & Response System

Reporting Week: 3

Reporting Period: January 16-22, 2023

Data Source: 15 County Surveillance Officers and Lab

Public Health Events reported during the week



Highlights of Key Public Health Events

- ◆ **A total of 220** events of public health importance including **14** deaths reported
- ◆ **Completeness and timeliness** of health facility reports were both **99%** respectively
- ◆ **Ongoing Lassa fever** outbreak in **2** counties
- ◆ **Monkeypox outbreak** in **2** counties
- ◆ **Ongoing Measles** outbreak in **11** counties

* Adverse Events Following Immunization (AEFI)



EVENTS OF PUBLIC HEALTH IMPORTANCE



Health Facility IDSR Reporting Coverage, Liberia, Epi-week 3, 2023

County	Expected Reports From Health Facility	Reports Received	Reports Received on Time	Completeness (%)	Timeliness (%)
Bomi	28	28	28	100	100
Bong	67	66	66	99	100
Gbarpolu	18	17	17	94	100
Grand Bassa	37	37	37	100	100
Grand Cape Mount	34	34	34	100	100
Grand Gedeh	24	24	24	100	100
Grand Kru	24	24	24	100	100
Lofa	60	60	60	100	100
Margibi	66	66	66	100	100
Maryland	28	25	25	100	100
Montserrado	318	318	314	100	99
Nimba	91	91	91	100	100
Rivercess	21	21	21	100	100
River Gee	20	20	20	100	100
Sinoe	41	41	41	100	100
Liberia	877	872	868	99	99

Legend: ≥80 <80

Expected HFs timeliness and completeness are calculated at the level of the reporting district



VACCINE PREVENTABLE DISEASES

MEASLES...1/7

121 suspected cases

34 specimens collected

Specimens tested: **0%**

COUNTY	CURRENT WEEK		CUMULATIVE (WK 1-3)	CLASSIFICATION OF CONFIRMED CASES			CUMULATIVE DEATHS	CFR (%)
	SUSPECTED	CONFIRMED		Lab Confirmed	Epi-Linked	Clinically Compatible		
Bomi	5	5	7	0	4	3	0	0.0
Bong	7	7	17	0	6	11	1	5.9
Grand Bassa	6	6	11	0	11	0	0	0.0
Grand Cape Mount	2	2	7	0	6	1	0	0.0
Grand Gedeh	7	7	14	0	3	11	0	0.0
Grand Kru	37	37	103	0	103	0	2	1.9
Lofa	5	5	6	0	1	5	0	0.0
Margibi	6	6	11	0	11	0	0	0.0
Maryland	8	8	65	0	64	1	0	0.0
Montserrado	23	23	74	0	74	0	0	0.0
Nimba	6	6	19	0	19	0	0	0.0
River Gee	5	5	6	0	1	5	0	0.0
Rivercess	2	2	3	0	3	0	0	0.0
Sinoe	2	2	8	0	1	7	0	0.0
Total	121	121	351	0	307	44	3	0.8

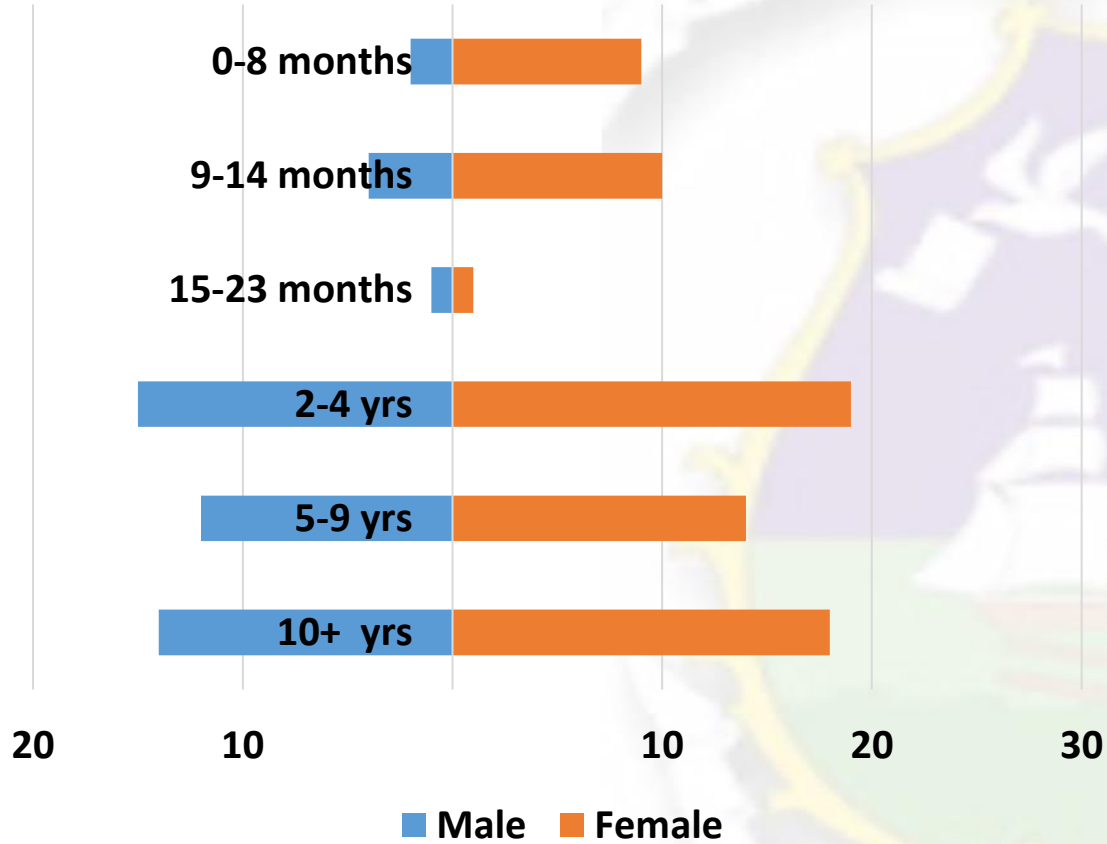
MEASLES...2/7

Vaccination Status of Measles Cases, Liberia, Epi week 3, 2023

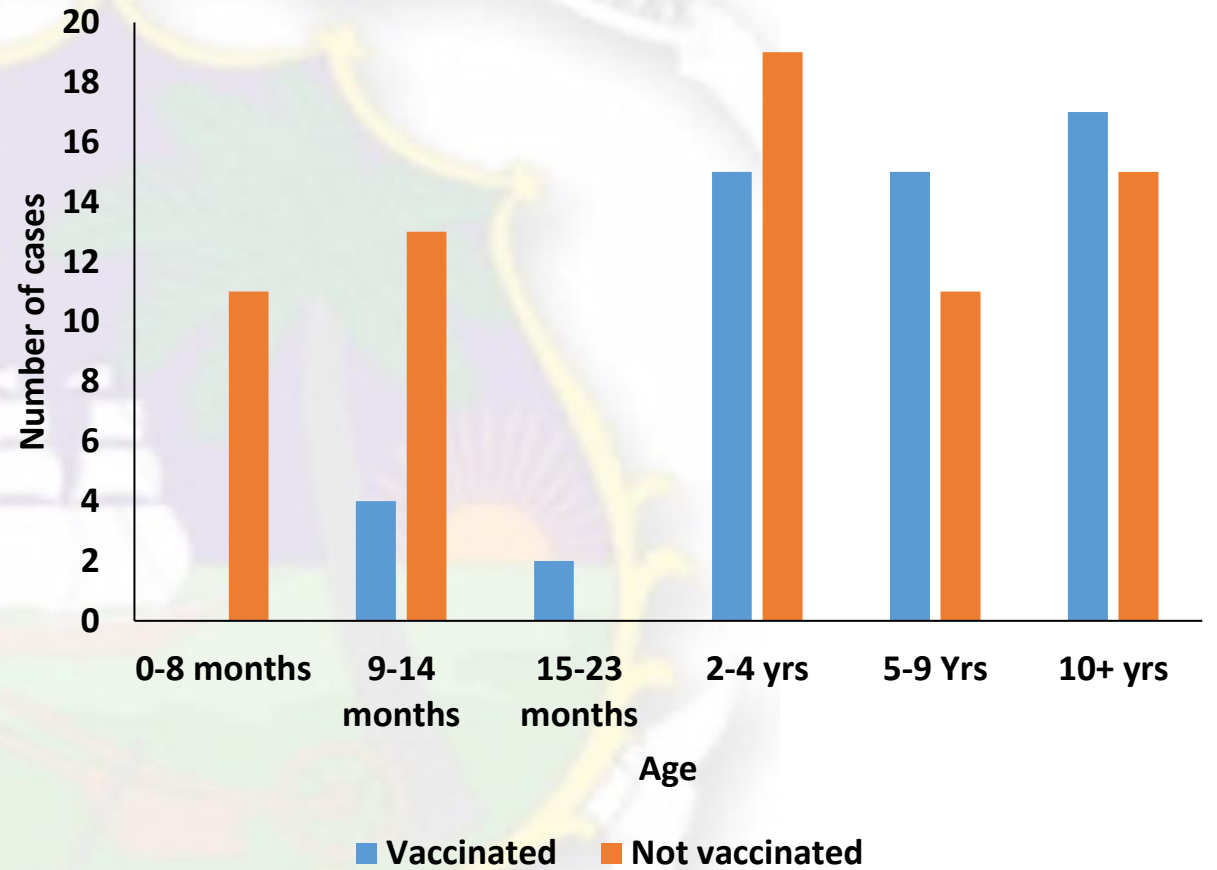
COUNTY	Total Cases vaccinated	Number of Doses Received		Dose Not Indicated
		One Dose	Two Doses	
Bomi	5	0	5	0
Bong	6	0	3	3
Grand Gedeh	2	2	0	0
Grand Kru	8	0	0	8
Lofa	3	0	0	3
Margibi	4	3	0	1
Maryland	6	0	0	6
Montserrado	23	11	12	0
Nimba	2	1	1	0
River Gee	2	0	0	2
Grand Cape Mount	2	2	0	0
Grand Total	63 (52%)	19 (30%)	21 (33%)	23 (37%)

Vaccinated: 63/121 (52%)

MEASLES...3/7



Distribution of Measles Cases by Age and Sex, Liberia Epi week 3, 2023



Vaccination Status of Measles Cases by Age group, Liberia, Epi-week 3, 2023

MEASLES...4/7

Attack Rate and CFR of Measles Cases among Counties, Liberia, December 13, 2021-January 22, 2023

County	Under 15yrs Population	Cases	Alive	Dead	CFR (%)	Attack Rate per 10000 population Under 15yrs
Montserrado	673145	4,312	4,246	66	1.9	64
Nimba	278125	760	759	1	0.1	27
Grand Bassa	133452	765	758	7	0.9	57
Margibi	126367	592	592	0	0.0	47
Bong	200745	380	379	1	0.3	19
Maryland	81830	467	467	0	0.0	57
Lofa	166662	199	199	0	0.0	12
Sinoe	61636	195	195	0	0.0	32
Grand Gedeh	75401	196	196	0	0.0	26
Grand Cape Mount	76496	145	142	3	4.1	19
Bomi	50637	99	94	5	5.6	20
Grand Kru	34862	351	349	2	0.6	101
Gbarpolu	50197	35	35	0	0.0	7
River Gee	40205	46	46	0	0.0	11
Rivercess	43046	85	84	1	3.7	20

MEASLES...7/7

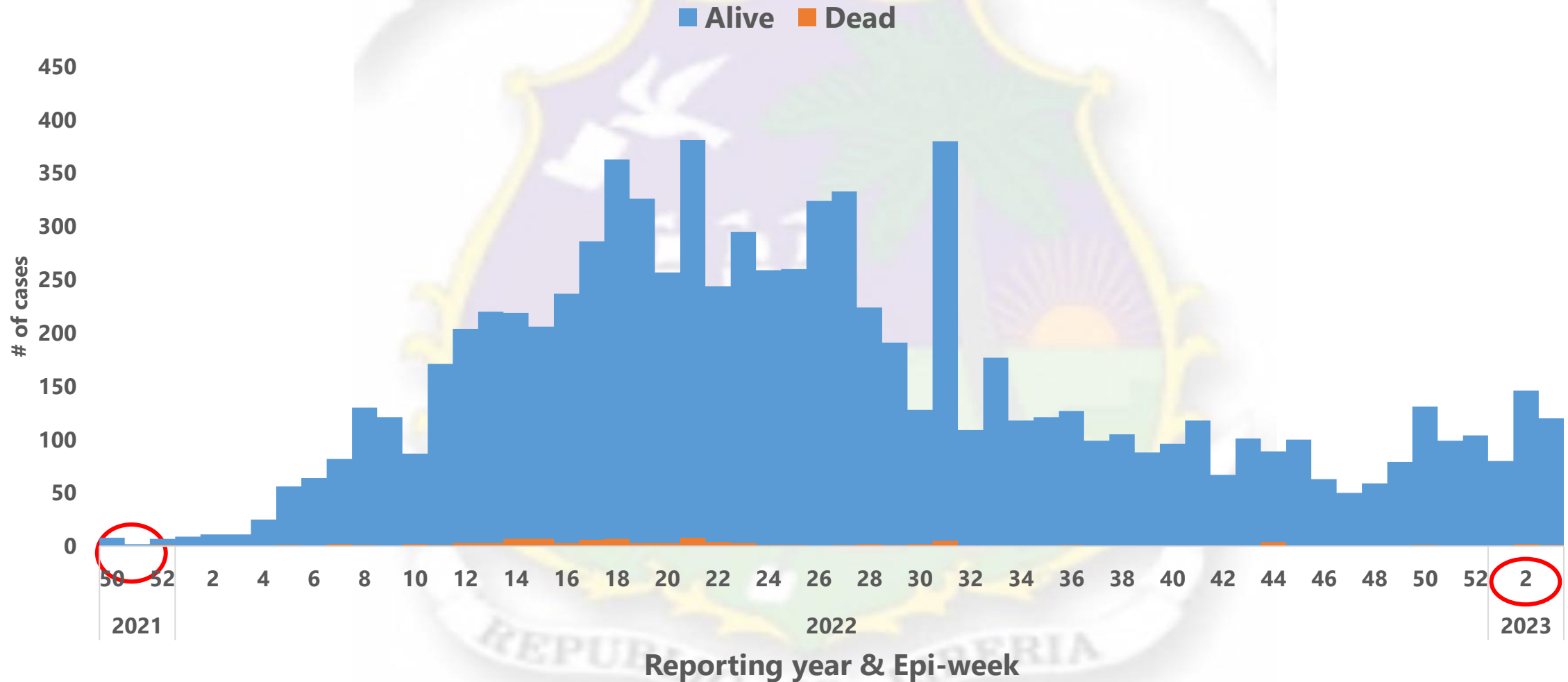
Status of Measles Outbreak, Liberia, December 13, 2021-January 22, 2023

County	Total Cases	Active	Recovery	Deaths	Vaccination coverage	# of Districts
Montserrado	4,381	23	4,291	67	53%	7/7
Nimba	762	6	755	1	93%	6/6
Grand Bassa	757	6	744	7	83%	4/8
Margibi	620	6	613	1	104%	4/4
Bong	388	4	381	3	81%	4/9
Maryland	454	7	447	0	79%	3/6
Lofa	190	0	190	0	93%	1/6
Grand Kru	323	36	285	2	58%	2/5
Grand Cape Mount	154	2	149	3	65%	3/5
Bomi	88	3	80	5	87%	2/4
Rivercess	82	2	79	1	77%	1/5
Total	8,199	95	8,014	90		37/83

Outbreak Section

MEASLES...6/7

National Epi Curve of Measles Cases Liberia, Epi week 50, 2021 – Epi week 3, 2023



MEASLES...7/7

Public Health Actions

- Ongoing monitoring of measles surveillance data with feedback to relevant stakeholders
- Isolation and treatment of cases ongoing
- National continues to provide technical and operational support to counties
- Community engagement and health education ongoing in affected counties

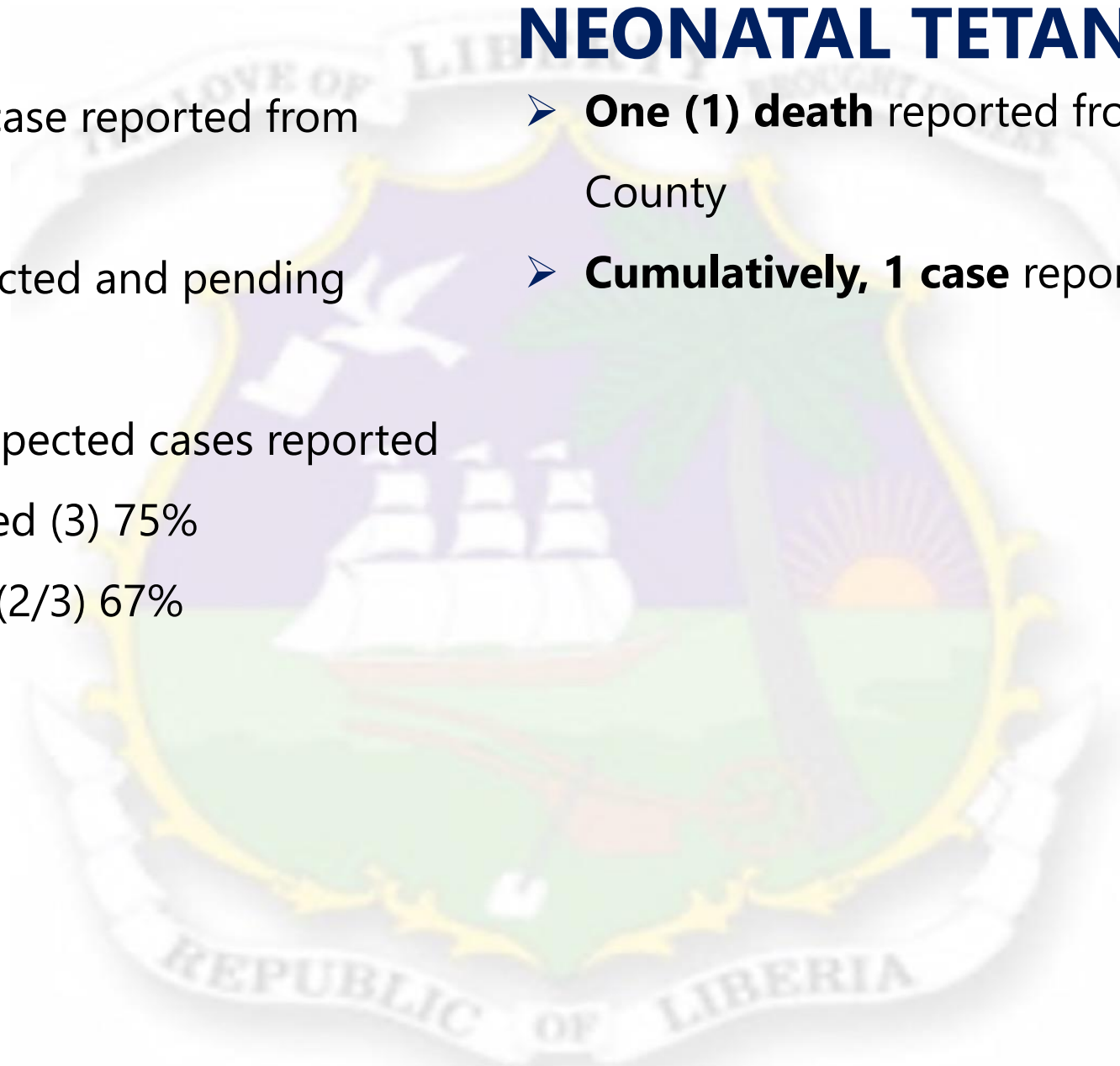


MENINGITIS

- **One (1)** suspected case reported from Grand Kru County
- **Specimen** was collected and pending testing
- **Cumulatively, 4** suspected cases reported
 - Samples collected (3) 75%
 - Samples tested (2/3) 67%

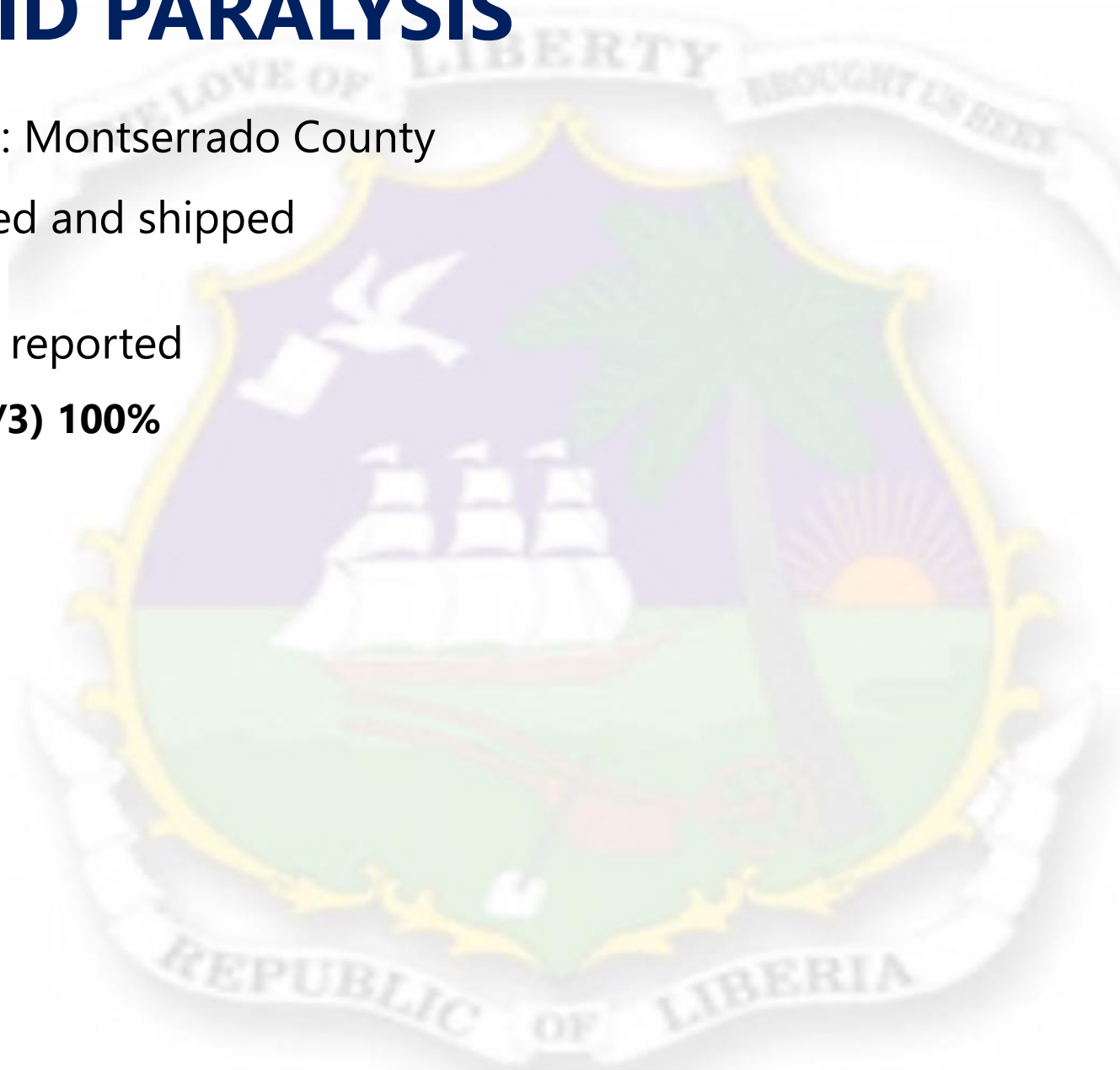
NEONATAL TETANUS

- **One (1) death** reported from Montserrado County
- **Cumulatively, 1 case** reported



ACUTE FLACCID PARALYSIS

- **One (1) case** reported: Montserrado County
- **Specimen** was collected and shipped
- **Cumulatively, 3** cases reported
 - ❑ Sample collected **(3/3) 100%**
 - ❑ Sample tested **0%**



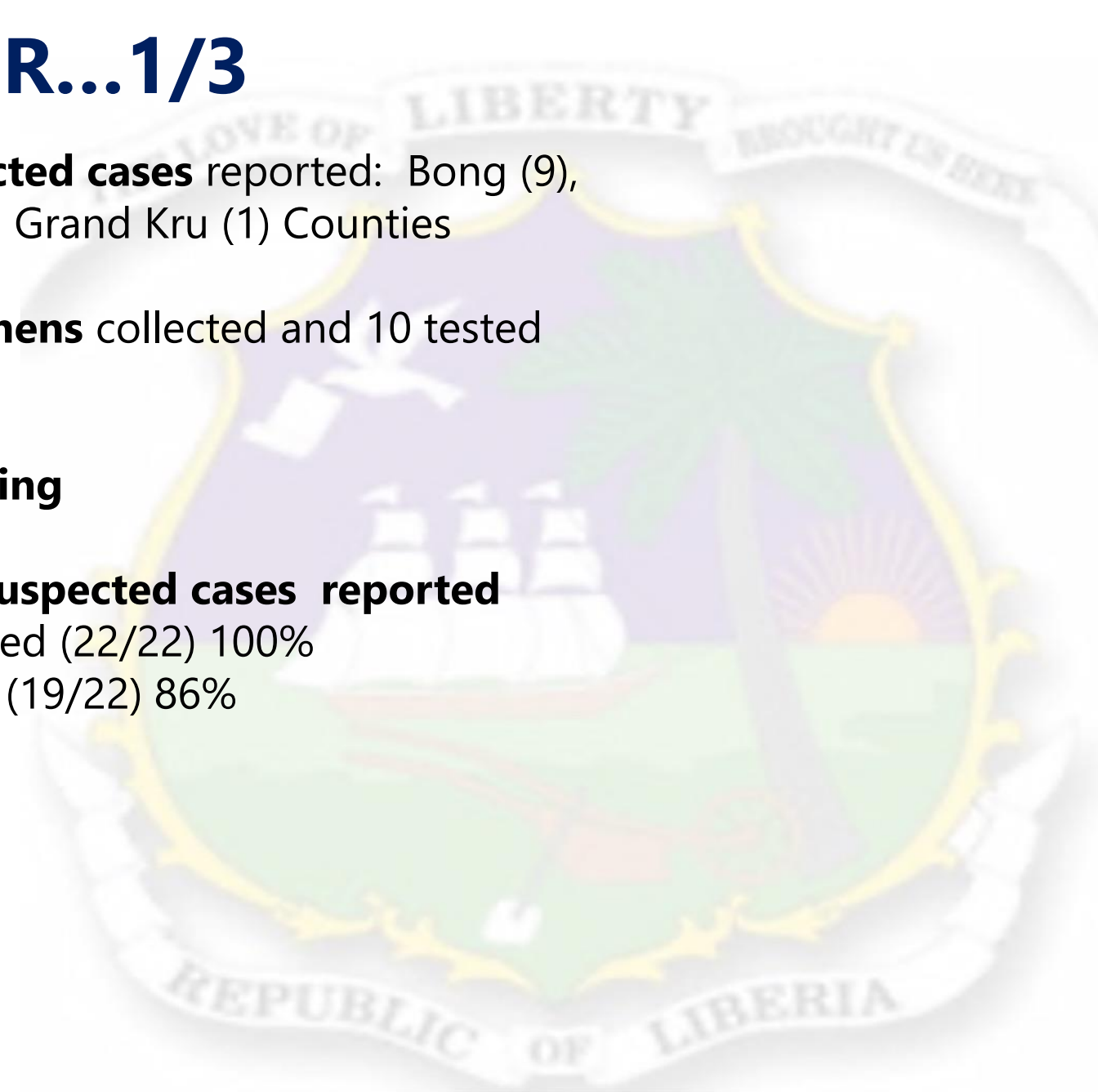


VIRAL HEMORRHAGIC FEVER



LASSA FEVER...1/3

- **Twelve (12) suspected cases** reported: Bong (9), Grand Bassa 2), and Grand Kru (1) Counties
- **Twelve (12) specimens** collected and 10 tested
 - **4 positive**
 - **6 negative**
 - **2 pending testing**
- **Cumulatively, 22 suspected cases reported**
 - Samples collected (22/22) 100%
 - Samples tested (19/22) 86%



LASSA FEVER...2/3

Summary of Lassa fever Outbreak, Liberia, Jan 6, 2022-Jan 25, 2023

County	Outbreak Start Dates	Outbreak Districts	Total suspected cases	Total confirmed cases	Total Deaths	CFR %	Total Contacts	# HCW contacts	Contacts under follow up	Contacts completed
Bong	January 6, 2022 to date	Suakoko, Sanoyea, & Jorquelleh	87	33	6	18	291	179	76	215
Nimba	January 18 to April 15, 2022	Sanniquellei-Mah	14	7	4	57	294	185	0	294
	August 15 to date	Sanniquellei-Mah, Tappita, & Saclepea-Mah	28	10	7	70				
Grand Bassa	November 5, 2021-April 2, 2022	District #3 A&B	12	5	1	20	144	19	18	139
	May 5 to August 14, 2022	District #3AB	13	6	1	17				
	September 9 to date	District #3 A&B	38	21	6	29				
Total		4	192	82	25	30	729	383	94	648

LASSA FEVER...3/3

Public Health Actions

Surveillance

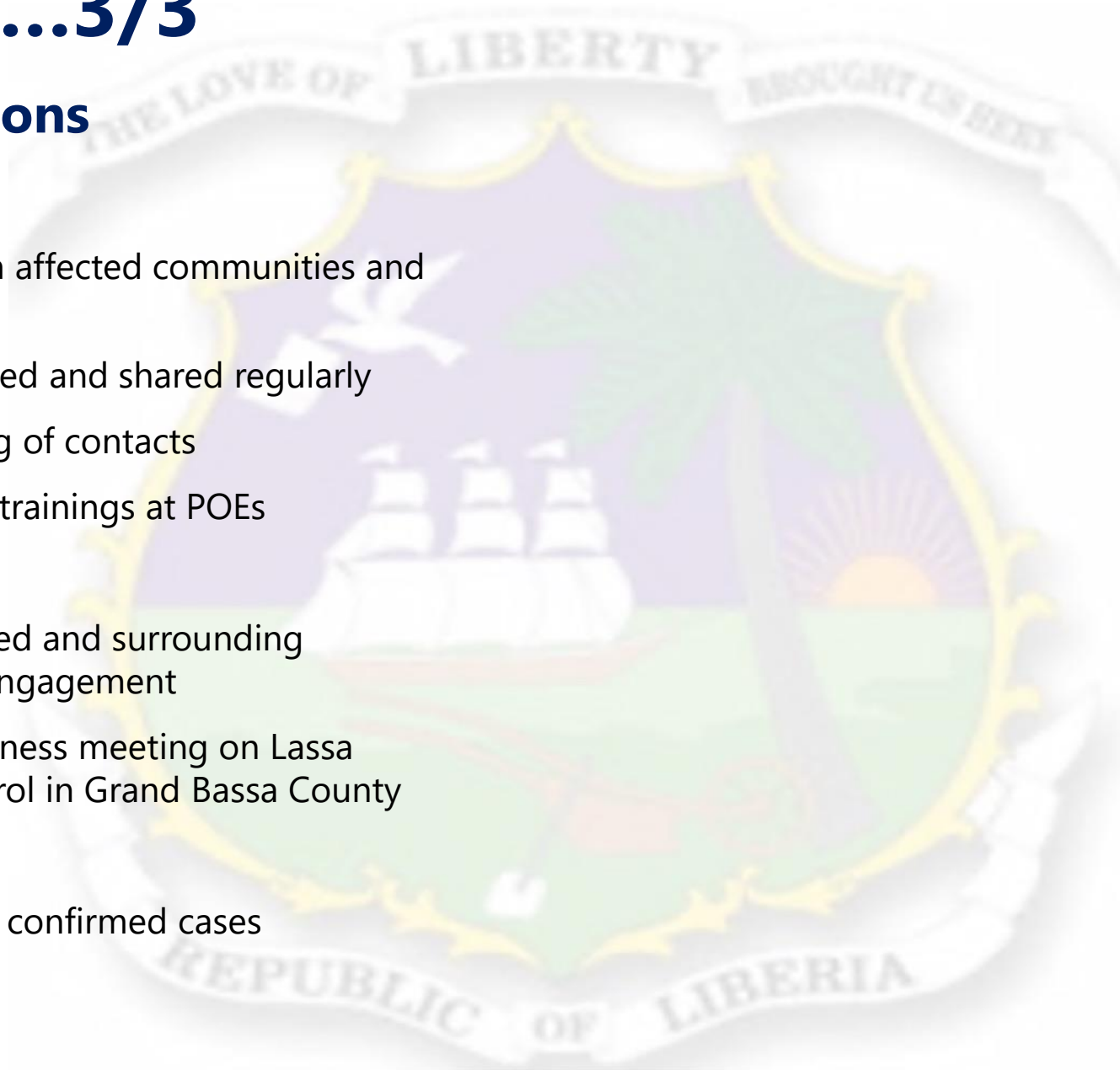
- Heightened surveillance in affected communities and districts
- Situational reports produced and shared regularly
- Daily follow up/monitoring of contacts
- Concluded Vector control trainings at POEs

RCCE

- Health Education in affected and surrounding communities and media engagement
- Conducted one day awareness meeting on Lassa fever prevention and control in Grand Bassa County

Case Management

- Isolation and treatment of confirmed cases





DIARRHEAL DISEASES



ACUTE BLOODY DIARRRHEA (suspected Shigellosis)

- **Nine (9) suspected cases reported:** Grand Kru (3), Grand Gedeh (2), Lofa (2), Margibi (1), and Sinoe (1)
- **Six (6) specimens** were collected and pending testing
- **Cumulatively, 16 suspected** cases reported

SEVERE ACUTE WATERY DIARRRHEA (Cholera)

- **Five (5) suspected cases reported** from Grand Kru (2), Lofa (1), River Gee (1), and Nimba (1) Counties
- **Four (4) specimens were** collected and pending testing
- **Cumulatively, 11 suspected** cases reported



OTHER REPORTABLE DISEASES



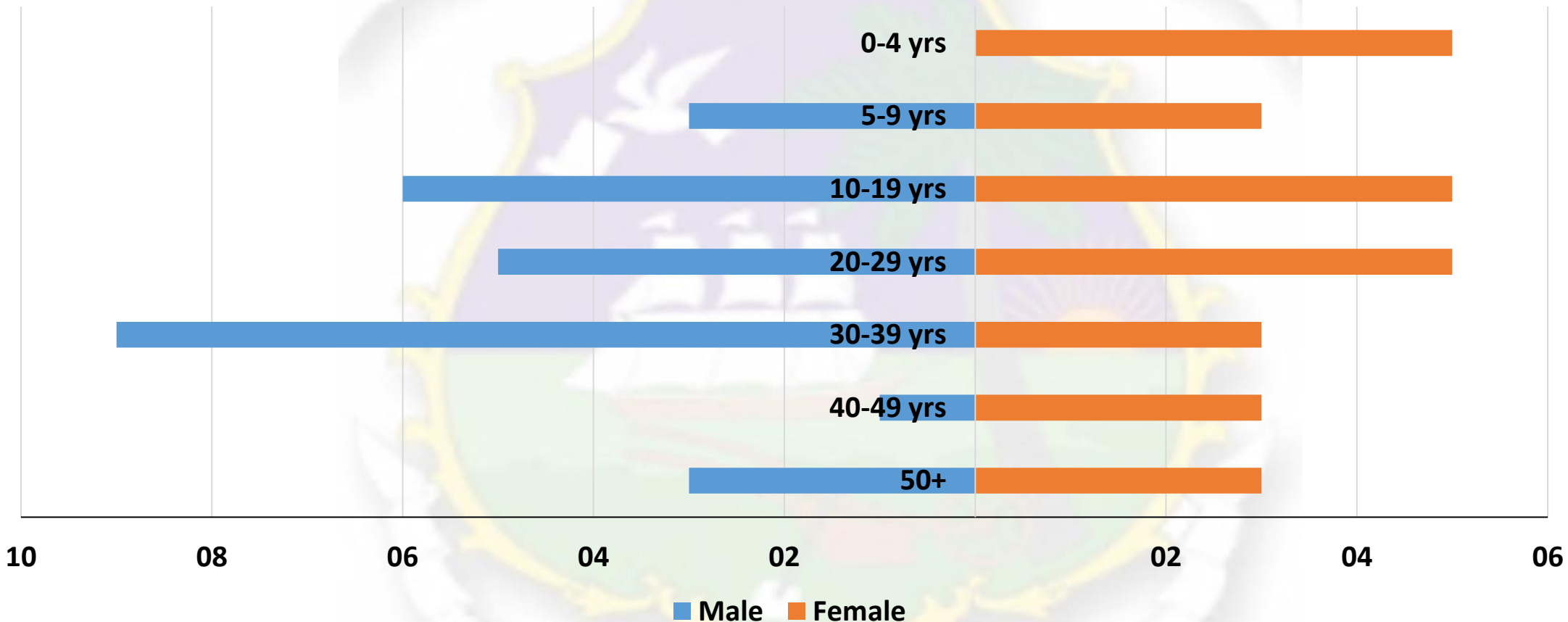
HUMAN EXPOSURE TO RABIES (suspected Human Rabies) ...1/2

Distribution of Dog bites by County, Liberia Epi week 3, 2023

County	# of Cases	# Person receiving PEP
Montserrado	18	8
Margibi	6	4
Grand Kru	5	3
Bong	5	2
Nimba	4	0
Rivercess	4	0
Grand Gedeh	3	0
Lofa	3	1
Grand Basaa	2	0
Sinoe	1	0
Grand Cape Mount	1	0
Bomi	1	0
River Gee	1	0
Total	54	18 (33%)

Cumulative (wk 1-3) : 134

HUMAN EXPOSURE TO RABIES (suspected Human Rabies) ...2/2



Distribution of Dog bites by Age and Sex, Liberia Epi week 3, 2023

MONKEYPOX

- **One (1)** suspected case reported: Maryland County
- **Specimen was** collected and pending testing
- **Cumulative, 6** suspected cases reported

Public Health Actions

- Heighten surveillance in affected communities and districts
- Situational reports are produced and shared regularly at the National Level
- Daily follow up/monitoring of contacts
- Health Education in affected and surrounding

Summary of Monkey pox Outbreak, Liberia, Dec 5, 2022-Jan 25, 2023

County	Outbreak Start Date	Outbreak Districts	Total suspected cases	Total confirmed cases	Total Deaths	CFR %	Total Contacts	# HCW contacts	Contacts under follow up	Contacts completed
Rivercess	Dec 5 to date	Central "C"	2	1	0	0.0	6	2	3	5
Lofa	Dec 22 to date	Salayea	3	1	0	0.0	13	0	0	13
	Dec 22 to date	Voinjama	2	1	0	0.0				



EVENTS OF PUBLIC HEALTH IMPORTANCE




MATERNAL MORTALITY


- **Three (3) deaths** reported: Montserrado Nimba, and Lofa Counties
- **Reported causes:**
 - Pre-Eclampsia
 - Eclampsia
 - Sepsis
- **Reporting sites:**
 - Health facility: (3)100%
- **Cumulatively, 20** deaths reported

NEONATAL MORTALITY

- **Ten (10) deaths** reported: Montserrado (5), Maryland (3), Sinoe (1), and Grand Kru (1) Counties
- **Reported causes:**
 - Asphyxia (6)
 - Sepsis (1)
 - Tetanus (1)
 - Preterm (2)
- **Reporting sites:**
 - Health facility: (9) 90%
 - Community: (1) 10%
- **Cumulatively, 24** deaths reported



BORDER SURVEILLANCE UPDATE



Travelers and IDSR Alerts Detected and Verified at Points of Entry, Liberia, Epi-week 3, 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	65	37	28	12	0	0	0	0	0	12
	Robert Int'l Airport	3914	1880	2034	3826	0	51	0	0	0	3864
Seaport	Freeport of Monrovia	322	161	161	161	0	0	0	1	0	161
	Buchanan Port	144	72	72	72	0	0	0	0	0	72
Land Crossing	Bo Water Side	567	367	200	467	0	21	0	1	0	390
	Ganta	267	152	115	259	5	3	0	0	0	148
	Yekepa	58	40	18	44	0	0	0	0	0	37
	Loguatu	103	59	44	88	0	0	0	0	0	61
	Yeala	601	345	256	0	0	0	0	0	0	0
	Kpazagizzia	107	53	54	0	0	0	0	0	0	0
	Bolongoidu	570	380	190	0	0	0	0	0	0	0
	Lawalazu	59	40	19	0	0	0	0	0	0	0
	Safedu	121	98	23	0	0	0	0	0	0	0
	Konadu	604	395	209	0	0	0	0	0	0	0
	Foya Tengia	930	530	400	0	0	0	0	0	0	0
	Mendicoma	1250	750	500	0	0	0	0	0	0	0
	Sorlumba	690	290	388	0	0	0	0	0	0	0
Worsonga	678	328	350	0	0	0	0	0	0	0	
Total		11,050	5,977	5,061	4,929	5	75	0	2	0	4,745

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



PUBLIC HEALTH MEASURES



PUBLIC HEALTH MEASURES

NATIONAL LEVEL

- Twenty-five (25) POE staff trained in vector control and disease surveillance
 - Bong, Grand Cape Mount, Margibi, Nimba, and Montserrado Counties
- Providing financial and remote technical supports to Counties
- Producing and circulating situational reports (Measles, Lassa fever, & Monkey pox)
- Conducted media engagement for Lassa fever awareness at national and county levels

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 and Lassa fever cases ongoing

For comments or questions, please contact

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