



SITUATION: LASSA FEVER OUTBREAK	LOCATION: LIBERIA
DATE OF REPORT: MARCH 23, 2024	OUTBREAK START D ATE: JAN 6, 2022
REPORTING PERIOD: MAR 16-22, 2024	SITREP NO: 95
KEI OKTING I EKIOD: MIIIK IV 22, 2024	STILLI NO. 25

HIGHLIGHTS

- One (1) new confirmed case reported from Bong County
- Five (5) contacts line listed and under 21 days follow up
- Sixteen (16) contacts completed 21 days follow up
- Cumulative Case Fatality Rate (CFR): 29% (41/141)
- One county (Bong) currently in outbreak

SITUATIONAL CONTEXT

Lassa fever (LF) is an acute viral haemorrhagic illness that is endemic in West Africa, including Benin, Ghana, Guinea, Liberia, Mali, Sierra Leone, and Nigeria. The incubation period ranges from 2-21 days and transmitted to humans via contact with food or household items contaminated with infected rodent urine or faeces. The signs and symptoms are usually gradual, but start with fever, general weakness, malaise, and later headache, sore throat, muscle pain, chest pain, nausea, vomiting, diarrhoea, cough, and abdominal pain or facial swelling, and bleeding.

LF is a major public health concern in Liberia. To date, eight (8) out of the fifteen (15) counties (Bong, Grand Bassa, Nimba, Margibi, Lofa, Montserrado, Grand Kru, and River Gee) have reported confirmed cases. Bong, Grand Bassa, and Nimba counties are endemic, while Margibi, Lofa, Montserrado, Grand Kru, and River Gee have reported sporadic cases.

In 2021, the country recorded 12 outbreaks including 25 laboratory-confirmed cases with 15 deaths accounting for a 60% case fatality rate (CFR). These outbreaks generated 325 contacts of which 196 were healthcare workers (HCWs).

From January 6, 2022 to present, we recorded 13 outbreaks. The ongoing outbreak, which started January 6, 2022 in Bong County, has recorded 141 laboratory-confirmed cases including 41 deaths (CRF 29%). A total of 1136 contacts have been recorded including 399 healthcare workers.

County	Outbreak Districts	Outbreak Start Date	Total suspected	Total confirmed	HCWs confirmed		Deaths in HCWs	CFR %	Total Contacts	# HCW contacts	Contacts_ became cases	Contacts under follow up	Contacts completed	Days in countdown	Outbreak Status
	Bushrod	13-Feb-23	17	1	0	0	0	0%	29	21	0	0	29	Completed	Over
Montserrado	Central Monrovia	27-Nov-23	1	2	0	1	0	50%	49	0	0	0	49	Completed	Over
	Central Monrovia	3-Mar-23	38	2	0	1	0	50%	28	27	0	0	28	Completed	Over
Bong	Suakoko	21-Apr-24	192	54	18	13	2	24%	496	114	6	0	417	Completed	Over
	Suakoko	23-Feb-24		2			0	0%	21	10			16	Active	Ongoing
	Jorquelleh	15-Oct-23	14	6	3	1	1	17%	121	86	3	0	169	Completed	Over
Grand Bassa	District 3A&B	21-Aug-23	87	44	0	10	0	23%	177	40	40	0	159	Completed	Over
Granu Dassa	Buchanan	11-Aug-23	2	1	0	1	0	100%	4	2	0	0	4	Completed	Over
	Saclepea-Mah	21-Nov-23	4	2	0	1	0	50%	5	0	0	0	5	Completed	Over
Nimba	Sanniquellie-Mah	6-Feb-23	42	15	0	6	0	40%	43	35	8	0	43	Completed	Over
	Tappita	20-Nov-23	12	5	0	3	0	60%	88	39	4	0	77	Completed	Over
	Bain-Garr	1-Jun-23	24	6	0	3	0	50%	61	25	0	0	31	Completed	Over
River Gee	Putupo	25-Nov-22	1	1	0	1	0	100%	14	0	0	0	14	Completed	Over
Total			441	141	21	41	3	29%	1136	399	61	5	1041		

 Table 1: Summary of Lassa fever Outbreak, Liberia, January 6, 2022 – March 22, 2024

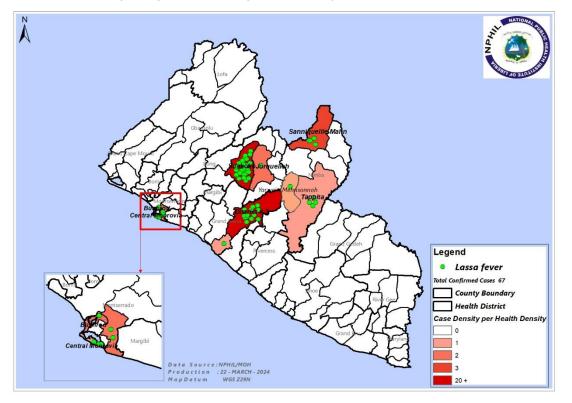
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Nimba: Bain Garr, Tappita, Sacclepea-Mah, Sanniquellie-Mah Districts

- No new confirmed case reported
- Cumulative confirmed cases: 28
 - Bain Garr District: 6
 - Sacclepea-Mah: 2 Sanniquellie-Mah: 15
 - Tappita District: 5
 - o CFR (13/28) 46%
 - o All contacts completed 21 days follow up
 - Nimba County has completed 42 days countdown (Feb 5 March 16, 2024)
 - The outbreak ended on March 13, 2024

Bong County: Suakoko District

- One new confirmed confirmed case reported from Suakoko
- □ Cumulative confirmed cases: 2
 - CFR (0/1): 0%
 - Five (5) high risk contacts including a pregnant wife line listed and under 21 days follow up
 - o Sixteen (16) contacts including 10 HCWs completed 21 days follow up (March 12, 2024)
 - The current confirmed case is alive and being treated with ribavirin at Phebe Hospital isolation
- Figure 1: Distribution of Confirmed Lassa fever cases by Health District, Jan 6, 2022-Mar 22, 2024



	2022&2023	2024		
Variables	Epi wk 1-52	Epi wk 1-11	Total	
Total suspected cases reported to the national level	440	49	489	
Total samples collected	421	49	470	
Total samples tested	394	48	442	
Total samples not collected OR samples collected but not sent to NRL	14	1	15	
Total samples pending testing	0	0	0	
Total samples collected & rejected by the Laboratory	3	0	3	
Total Laboratory confirmed	138	3	141	
Total confirmed cases alive	97	3	100	
Total deaths among confirmed cases	41	0	41	
Overall case fatality rate (CFR)	30%	0%	29%	
Total confirmed cases currently in isolation	0	0	0	
Total suspected cases in isolation	0	0	0	

Table 2: Summary of Lasa fever cases and samples, Liberia, Jan 6, 2022–March 22, 2024

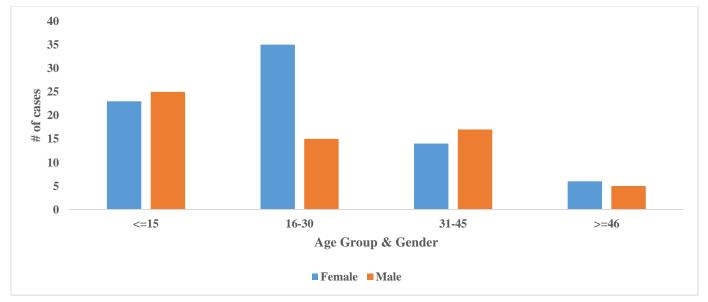


Figure 2: Distribution of confirmed Lassa fever cases by Age and Gender, Liberia, Jan. 6, 2022-March 22, 2024

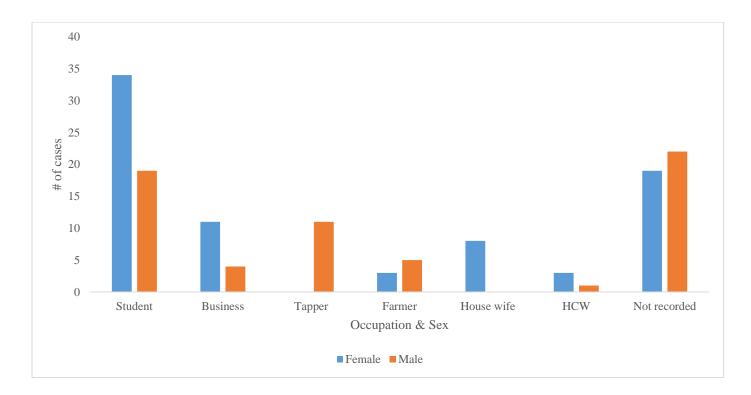


Figure 3: Distribution of confirmed Lassa fever cases by Occupation and Gender, Liberia, Jan. 6, 2022 – March 22, 2024

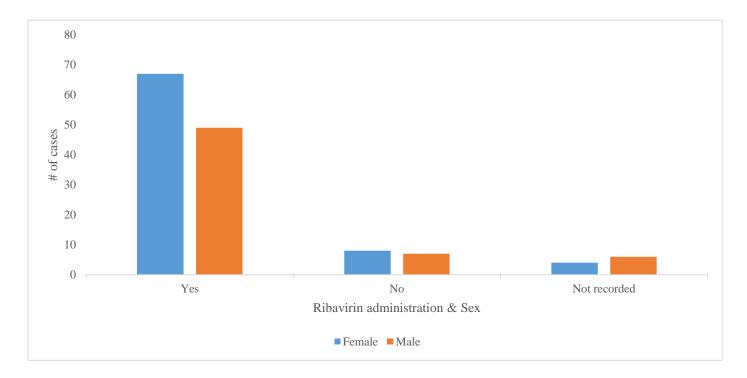


Figure 4: Confirmed Lassa fever cases by Ribavirin administration and Outcome, Liberia, Jan. 6, 2022 – March 22, 2024

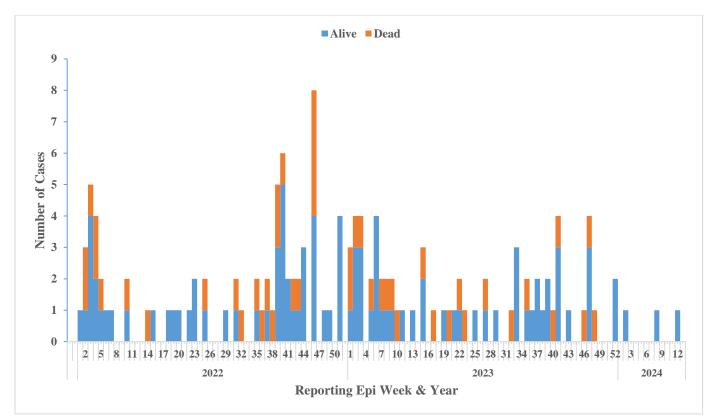


Figure 5: Epi-curve of confirmed Lassa fever cases and deaths by reporting Epi week & Year, Liberia, January 6, 2022-March 22, 2024

PUBLIC HEALTH INTERVENTIONS

Since the inception of the 2022 outbreak, several measures including response initiatives have been instituted including surveillance and laboratory testing, vector surveillance and control, case management, etc. These interventions aim to protect at-risk populations; prevent international spread; containing outbreaks rapidly. Below are details of the measures taken in the ongoing outbreak:

I. Coordination

• National Public Health Institute of Liberia (NPHIL) and the Ministry of Health (MOH) are providing technical and logistical support to County Health Teams with support from partners.

II. Epidemiological Surveillance

- Active case search and contact tracing ongoing in affected communities and districts.
- Situational reports have been developed and disseminated to stakeholders.

III. Laboratory

- The National Public Health Reference Laboratory continues testing of Lassa fever samples.
- Total of 141 Lassa fever cases have been confirmed since this outbreak

IV. Case management and IPC

- The current confirmed case is being treated in Phebe Hospital isolation.
- Ribavirin supply in country and being distributed for treatment of Lf cases to affected counties.

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V. Risk Communication and Community Engagement

• Risk communication and community engagement ongoing in affected and surrounding communities

VI. Dead Body Management

• All deaths were buried under safe and dignified condition

VII. Key Challenges

- Limited supply of IPC materials in affected counties.
- Lack of IEC materials for community sensitization.
- Lack of logistics (gasoline, communication cards, fuel, etc) to support active case search and contact tracing in affected county (Bong County).
- Limited stationeries in the EOC to produce case alert forms, contact tracing form and other tools for investigation (Bong County).

For comments or questions, please contact:

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