



<b>SITUATION: LASSA FEVER OUTBREAK</b>	<b>LOCATION: LIBERIA</b>
<b>DATE OF REPORT: MAY 10, 2024</b>	<b>OUTBREAK START DATE: JAN 6, 2022</b>
<b>REPORTING PERIOD: MAY 4-10, 2024</b>	<b>SITREP NO: 102</b>

## HIGHLIGHTS

- **No new confirmed cases reported**
- Total of 114 contacts including 26 healthcare workers line listed
- Total of 52 contacts under 21 days follow up
- Total of 149 confirmed cases including 45 deaths reported
- Cumulative Case Fatality Rate (CFR): 30% (45/149)
- Four counties currently in outbreak

## SITUATIONAL CONTEXT

Lassa fever (LF) is an acute viral hemorrhagic 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 feces. 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, diarrhea, 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 18 outbreaks. The ongoing outbreak, which started January 6, 2022 in Bong County, has recorded 149 laboratory-confirmed cases including 45 deaths (CRF 30%). A total of 1231 contacts have been recorded including 436 healthcare workers.

**Table 1: Summary of Lassa fever Outbreak, Liberia, January 6, 2022 – May 10, 2024**

County	Outbreak Districts	Outbreak Start Date	Total suspected	Total confirmed	HCWs confirmed	Total Deaths	Deaths in HCWs	CFR %	Total Contacts	# HCW contacts	Contacts became cases	Contacts under follow up	Contacts completed	Days in countdown	Outbreak Status
Montserrado	Bushrod	13-Feb-23	17	1	0	0	0	0%	29	21	0	0	29	Completed	Over
	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
	Bushrod	30-Apr-24	2	1	0	0	0	0%	14	6	0	14	0	Active	Ongoing
Bong	Suakoko	21-Apr-23	192	54	18	13	2	24%	496	114	6	0	417	Completed	Over
	Jorquelleh	15-Oct-23	14	6	3	1	1	17%	121	86	3	0	169	Completed	Over
	Suakoko	23-Feb-24	13	3	0	0	0	0%	29	14	0	8	16	Active	Ongoing
	Salala	8-Mar-24	2	2	0	1	0	50%	21	0	0	0	21	15	Countdown
	Jorquelleh	11-Apr-24	2	1	0	1	0	0%	22	17	0	0	22	10	Countdown
Grand Bassa	District 3A&B	21-Aug-23	87	44	0	10	0	23%	177	40	40	0	159	Completed	Over
	Buchanan	11-Aug-23	2	1	0	1	0	100%	4	2	0	0	4	Completed	Over
	District 3A&B	30-Apr-24	2	1	0	1	0	100%	5	3	0	5	0	Active	Ongoing
Nimba	Saclepea-Mah	21-Nov-23	4	2	0	1	0	50%	5	0	0	0	5	Completed	Over
	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
	Bain-Garr	15-Apr-24	3	2	0	1	0	50%	25	7	0	25	0	Active	Ongoing
River Gee	Putupo	25-Nov-22	1	1	0	1	0	100%	14	0	0	0	14	Completed	Over
<b>Total</b>			<b>458</b>	<b>149</b>	<b>21</b>	<b>45</b>	<b>3</b>	<b>30%</b>	<b>1231</b>	<b>436</b>	<b>61</b>	<b>52</b>	<b>1084</b>		

### Bong County: Jorquelleh, Suakoko and Salala Districts

- ☞ No new confirmed case reported
- ☞ Cumulative confirmed cases for the current outbreak: 6
  - Suakoko District: 3
  - Salala District: 2
  - Jorquelleh District: 1
- ☞ CFR (2/6): 33%
- ☞ Safe and dignified burials were conducted for the deceased cases
- ☞ Total of 73 contacts including 27 healthcare workers identified and line listed
  - Sixty-five (65) contacts including 27 HCWs completed 21 days follow up
  - Total of 8 contacts under 21 days follow up

### Nimba County: Bain-Garr District

- ☞ No new confirmed case reported
- ☞ Cumulative confirmed cases for the current outbreak: 2
- ☞ Bain-Garr District: 2
- ☞ CFR (1/2): 50%
- ☞ Twenty-five (25) contacts including 9 HCWs line listed and under follow up

### Montserrado County: Bushrod District

- ☞ No new confirmed case reported
- ☞ Cumulative confirmed cases for the current outbreak: 1
- ☞ CFR (0/1): 0%
- ☞ Total of 14 contacts including 6 HCWs line listed and under 21 days follow up
- ☞ The confirmed case was treated with ribavirin at Redemption isolation and discharged

## Grand Bassa County: District 3 A & B

- ☞ No new confirmed case reported
- ☞ Cumulative confirmed cases for the current outbreak: 1
- ☞ CFR (1/1): 100%
- ☞ Safe and dignified burial was conducted for the deceased case
- ☞ Total of 5 contacts including 3 HCWs identified, line listed and under 21 days follow up

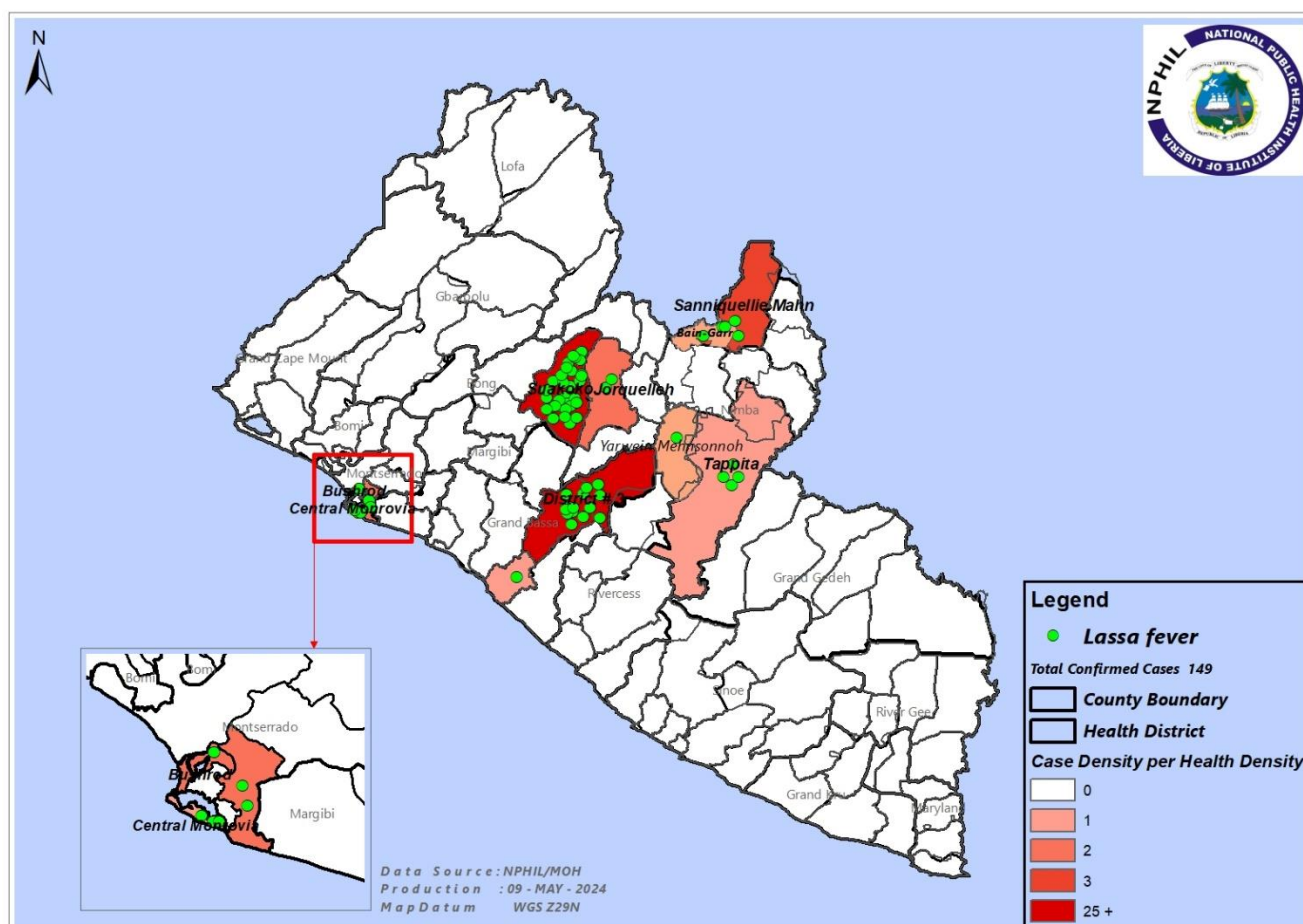
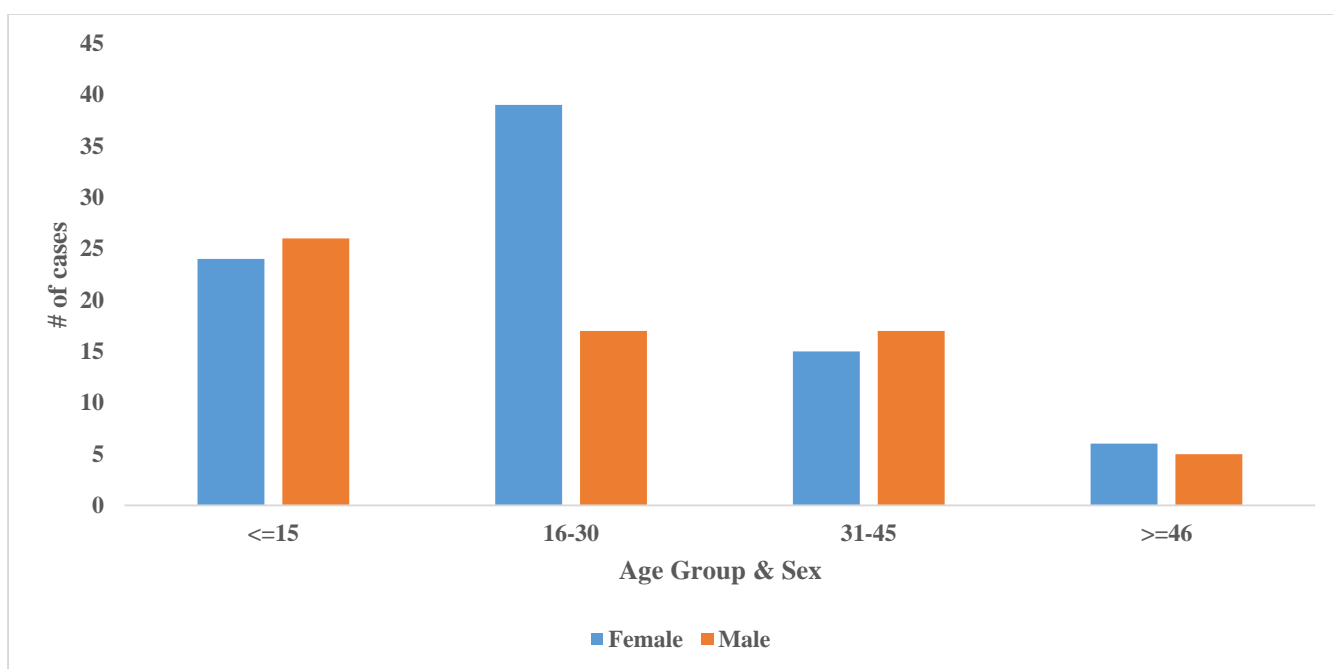


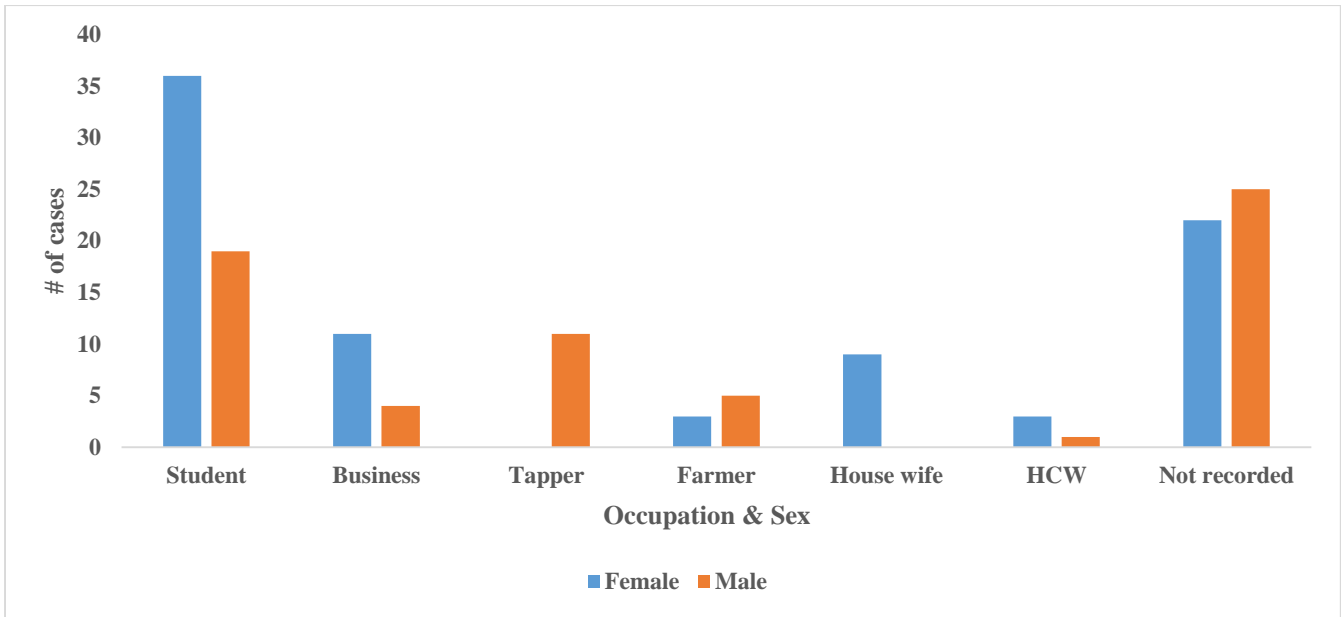
Figure 1: Distribution of Confirmed Lassa fever cases by Health District, Jan 6, 2022-May 10, 2024

**Table 2: Summary of Lassa fever cases and samples, Liberia, Jan 6, 2022–May 10, 2024**

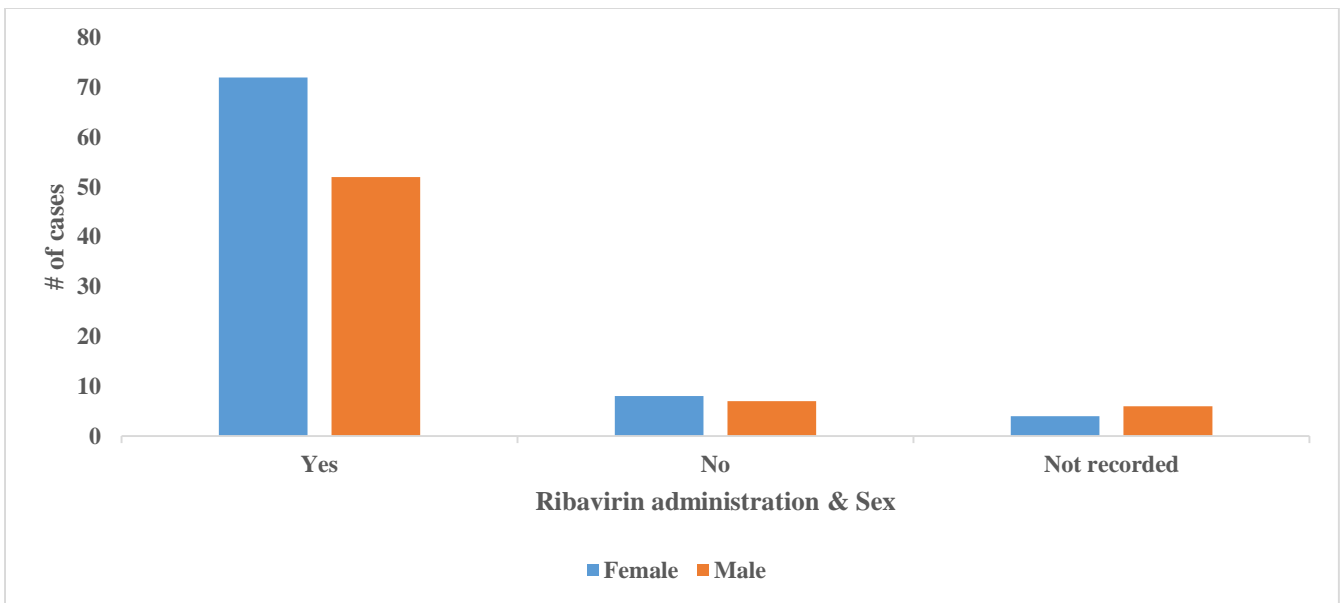
Variables	2022 & 2023	2024	Total
	Epi wk 1-52	Epi wk 1-18	
Total suspected cases reported to the national level	439	80	519
Total samples collected	437	80	517
Total samples tested	416	76	492
Total samples not collected OR samples collected but not sent to NRL	20	3	23
Total samples pending testing	0	1	1
Total samples collected & rejected by the Laboratory	3	0	3
Total Laboratory confirmed	138	11	149
Total confirmed cases alive	97	7	104
Total deaths among confirmed cases	41	4	45
Overall case fatality rate (CFR)	30%	36%	30%
Total confirmed cases currently in isolation	0	0	0
Total suspected cases in isolation	0	0	0



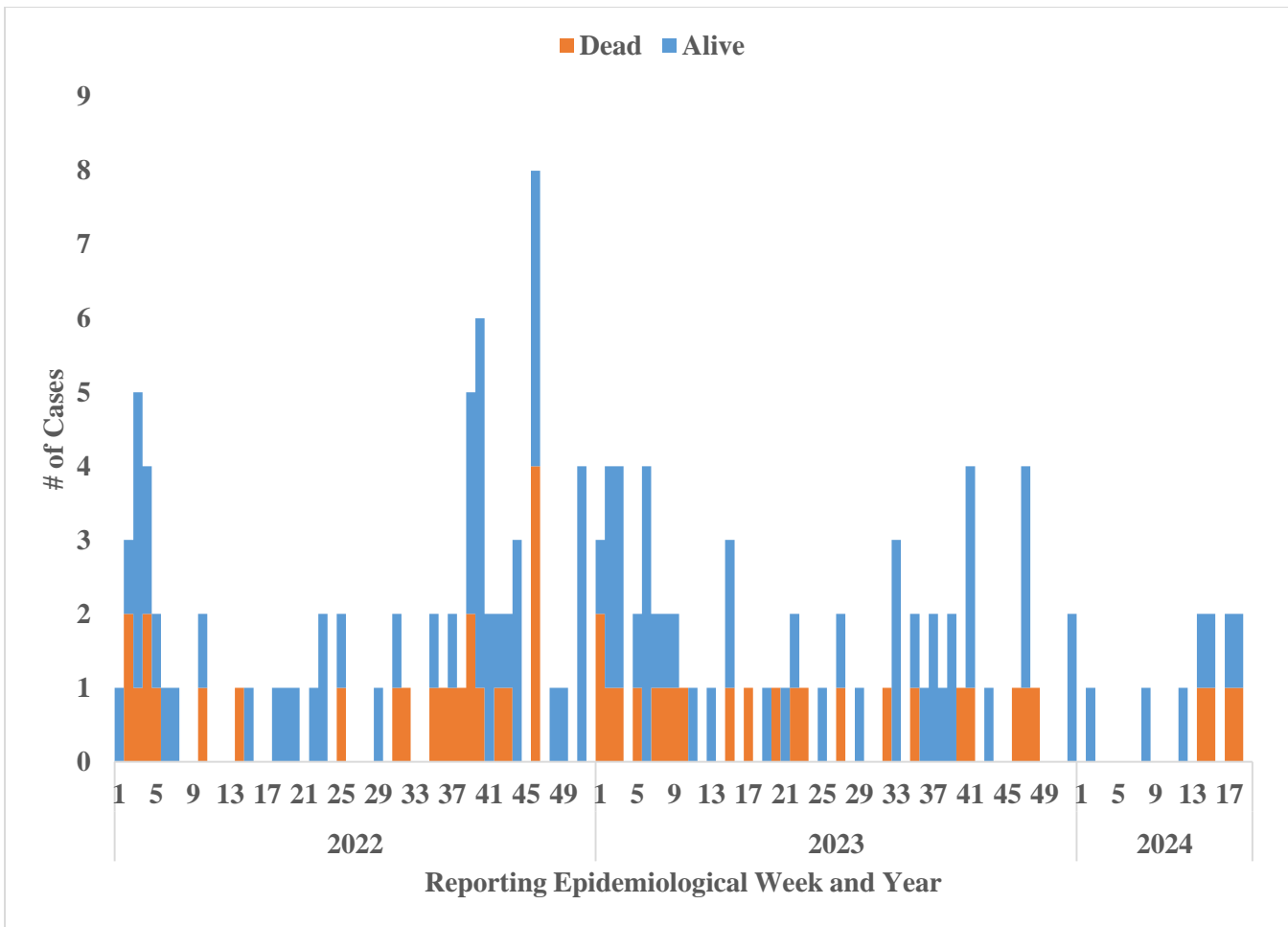
**Figure 2: Distribution of confirmed Lassa fever cases by Age and Sex, Liberia, Jan.2022-May 10, 2024**



**Figure 3: Distribution of confirmed Lassa fever cases by Occupation and Sex, Liberia, Jan. 6, 2022 – May 10, 2024**



**Figure 4: Confirmed Lassa fever cases by Ribavirin administration and Outcome, Liberia, Jan. 6, 2022 – May 10, 2024**



**Figure 5: Epi-curve of confirmed Lassa fever cases and deaths by reporting Epi week & Year, Liberia, January 6, 2022-May 10, 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**

- The response has been led by the County Health Teams with technical support from the National Public Health Institute of Liberia (NPHIL), the Ministry of Health (MOH) and partners
  - The Incident Management Systems (IMSs) have been activated in the affected counties
  - The PHEOCs in the response counties are in response mode coordinating the response

**II. Epidemiological Surveillance**

- Active case search and contact tracing ongoing in affected communities and districts
- Fifty-two (52) contacts under 21 days follow up
- 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 149 Lassa fever cases have been confirmed since this outbreak

### IV. Case management and IPC

- One confirmed case in isolation undergoing ribavirin treatment
- Ribavirin supply in country and being distributed for treatment of Lf cases to affected counties

### V. Risk Communication and Community Engagement

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



*County risk communication manager conducting health education on Lassa fever prevention measures in affected community, Bain Garr, Nimba County, April 30, 2024*

### VI. Dead Body Management

- Total of 45 confirmed deaths recorded and buried under safe and dignified condition



*The burial team conducts safe and dignified burial of the deceased patient, Ganta United Methodist Hospital, Bain Garr, Nimba County, April 29 2024*

### VI. 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
- Limited stationeries in the EOC to produce case alert forms, contact tracing form and other tools for investigation

*For comments or questions, please contact:*

Emmanuel Dwalu, BSc, BSEd, PDGE, MPH, FETP  
**Epidemiologist/Lassa fever Disease Lead**  
Division of Infectious Disease and Epidemiology, NPHIL  
Cell: (+231-770883760)  
Email: [dwaluemmanuel2@gmail.com](mailto:dwaluemmanuel2@gmail.com)

Ralph W. Jetoh, MD, MPH  
**Director**  
Division of Infectious Disease and Epidemiology, NPHIL  
Cell: (+231-777372655)  
Email. [ralphica2000@gmail.com](mailto:ralphica2000@gmail.com)

*Issuing Authority:*  
Hon. Jane A. MaCauley, MPH  
**Director General**  
National Public Health Institute of Liberia  
Cell: +231 (0555)-152-926  
Email: [janemacauley2@gmail.com](mailto:janemacauley2@gmail.com)