



SITUATIONAL REPORT

21st Edition

Source: County Health Teams including Sitrep

Meningococcal Disease Outbreak: Liberia, 15 May 2017

New Update

- As of 15th May 2017, the cumulative case count is 31, including 13 deaths from three counties.
- A total of 110 funeral attendees from six counties (Sinoe, Montserrado, Maryland, Grand Gedeh, Grand Kru and Grand Bassa) and 214 contacts of cases in Sinoe (152), Montserrado (40) and Grand Bassa (22) have been identified and are being followed up daily and no case has been detected.
- Neisseria meningitidis serogroup C confirmed by PCR in samples from 13 cases tested by CDC at National Reference Lab in Liberia.
- Joint review of epidemiological, clinical and laboratory data undertaken by WHO and CDC indicate illnesses and deaths were due to meningococcal disease outbreak

Situational Overview

On Tuesday, 25th April 2017 at 10:30 GMT, Sinoe County Health Team (SCHT) notified the National Public Health Institute of Liberia (NPHIL) and the Ministry of Health (MoH) of a cluster of unexplained health events involving 14 cases with 8 deaths in Greenville City. According to SCHT, cases presented with headache, diarrhea, mental confusion, weakness, vomiting and abdominal pain. Many of the cases reported onset of symptoms following attendance at a funeral event (wake, burial, repress) on the 21st and 22nd of April 2017.

Public Health Actions and Thematic Updates

Coordination

- All national pillars (Epi Surveillance, Case Management, Laboratory, IPC, Social Mobilization, Psychosocial Dead body management and Coordination) are fully operationalized, following activation of the National IMS for the meningococcal disease outbreak response
- Ongoing coordination at both national and county level (NEPRC/CEPRC)
- Sinoe CHT has capacity to continue response efforts, with remote support from the national RRT, CDC and WHO. Routine health services are still being provided in the counties.
- Recommendations from the analyzed epidemiological and laboratory data undertaken by joint team of CDC and WHO experts were presented to the IMS this morning. Lab results indicate meningococcal disease outbreak.

Surveillance and contact tracing

- Cumulative case count is 31 cases, including 13 deaths in Grand Bassa (1), Sinoe (10) and Montserrado (2) counties. The CFR is 41.9%
- Ongoing review of data on suspected meningitis cases reported from January to March
- A total of 110 funeral attendees from 6 counties (Sinoe, Montserrado, Maryland, Grand Gedeh, Grand Kru and Grand Bassa) and 214 contacts of cases in Sinoe (152), Montserrado (40) and Grand Bassa (22) are being followed up daily.
- Active case search continues in counties with funeral attendees.
- Heightened surveillance at community and health facilities in all counties.

Case Management

- Ceftriaxone and ciprofloxacin provided to all counties
- All health workers, contacts and attendees of the funeral are to receive prophylaxis with Ciprofloxacin. County Health Teams have developed plans for distribution of prophylaxis.
- Thirteen bed isolation facility prepared for response in Montserrado county at Redemption Hospital (9) and ELWA Hospital (4)

Social Mobilization and Community engagement

- Meningitis messages have been developed and will be circulated to all counties
- Community engagement meetings are ongoing in districts and surrounding communities in Sinoe county
- Communication strategy on meningococcal disease outbreak are being developed

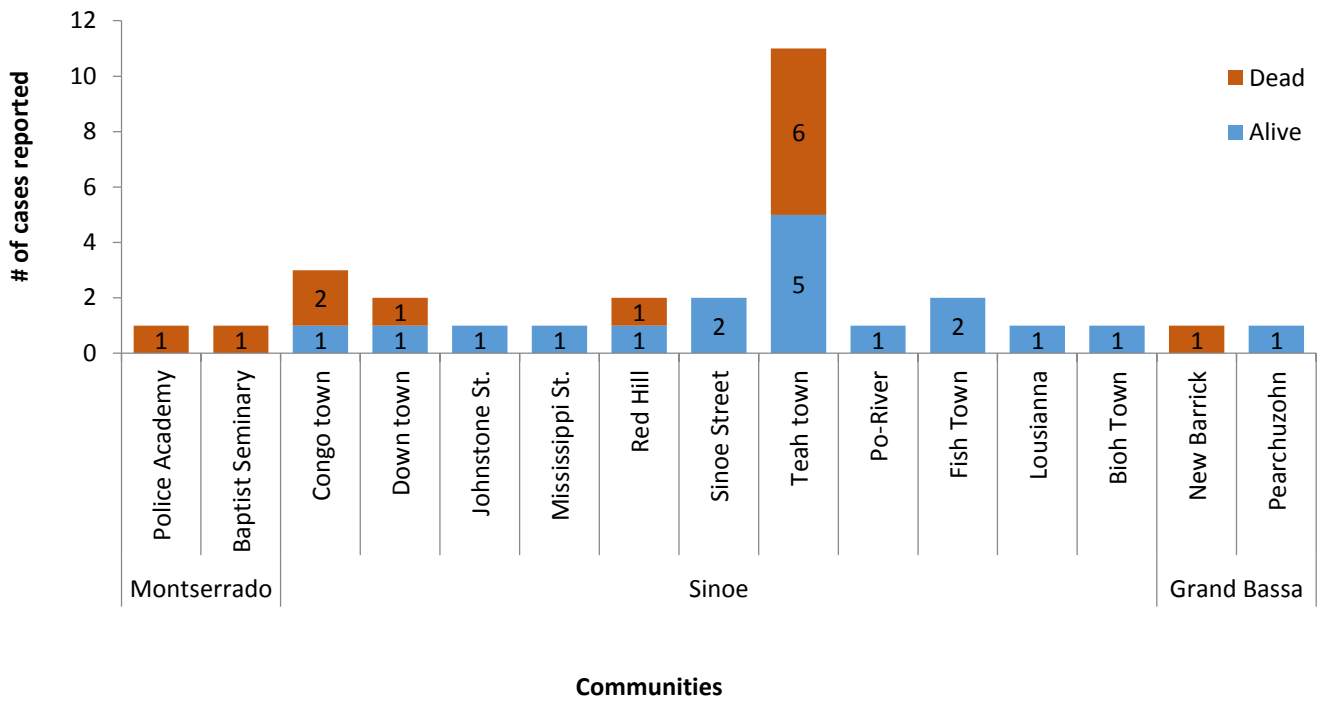
Laboratory investigation

- 56 samples of 26 patients were collected from cases for hematology, chemistry and microbiology analysis
- Neisseria meningitidis serogroup C confirmed by PCR in samples from 13 cases tested by CDC at National Reference Lab in Liberia.
- 3 plasma specimens shipped to Institute Pasteur by MSF for further investigations tested Negative for Lassa Fever, EVD, Marburg and Crimean Congo Hemorrhagic Fever (CCHF)
- Autopsy report will be finalized after incorporating additional lab data

Infection Prevention and Control (IPC)

- Mentoring on IPC practices conducted daily at the Hospital in Sinoe County

**Figure 1: Distribution of cases of Probable Meningitis, Buchanan- Grand Bassa, Greenville- Sinoe County and Monrovia-Montserrado County
As of May 15, 2017**



**Figure 2: Age Distribution of Probable Meningitis, Buchanan- Grand Bassa, Greenville- Sinoe County and Monrovia-Montserrado County
As of May 15, 2017**

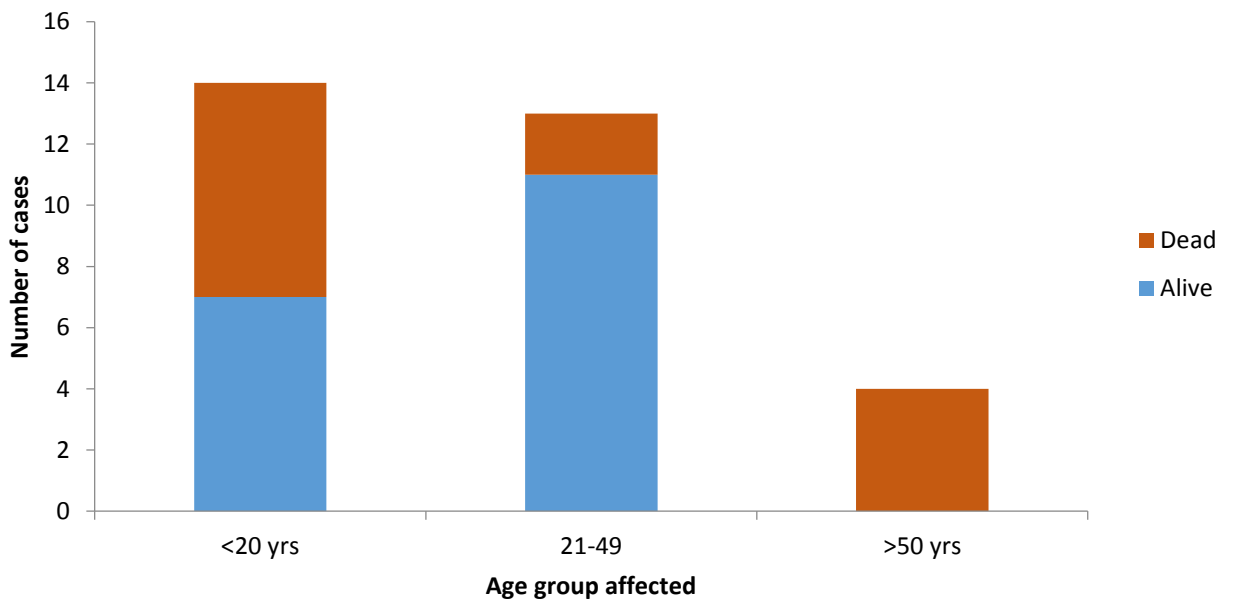


Figure 3: Distribution of Probable Meningitis, Buchanan- Grand Bassa, Greenville- Sinoe County and Monrovia-Montserrado County As of May 15, 2017

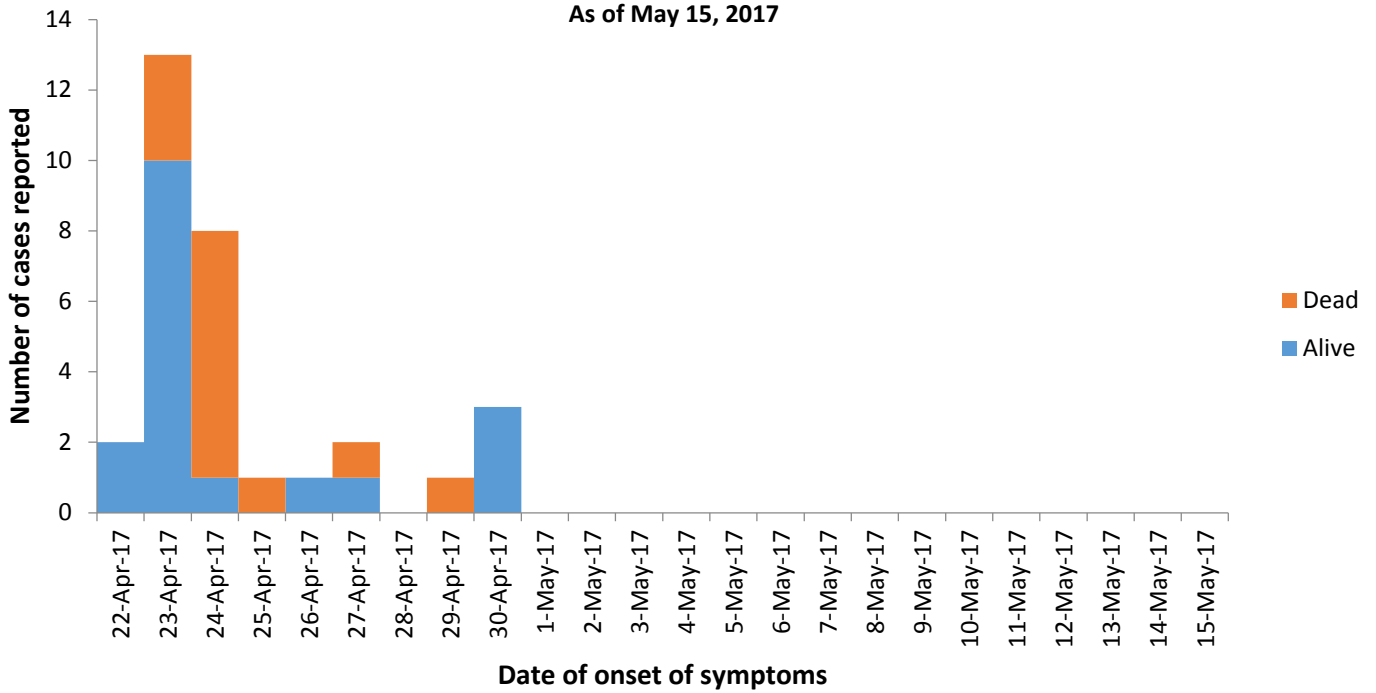
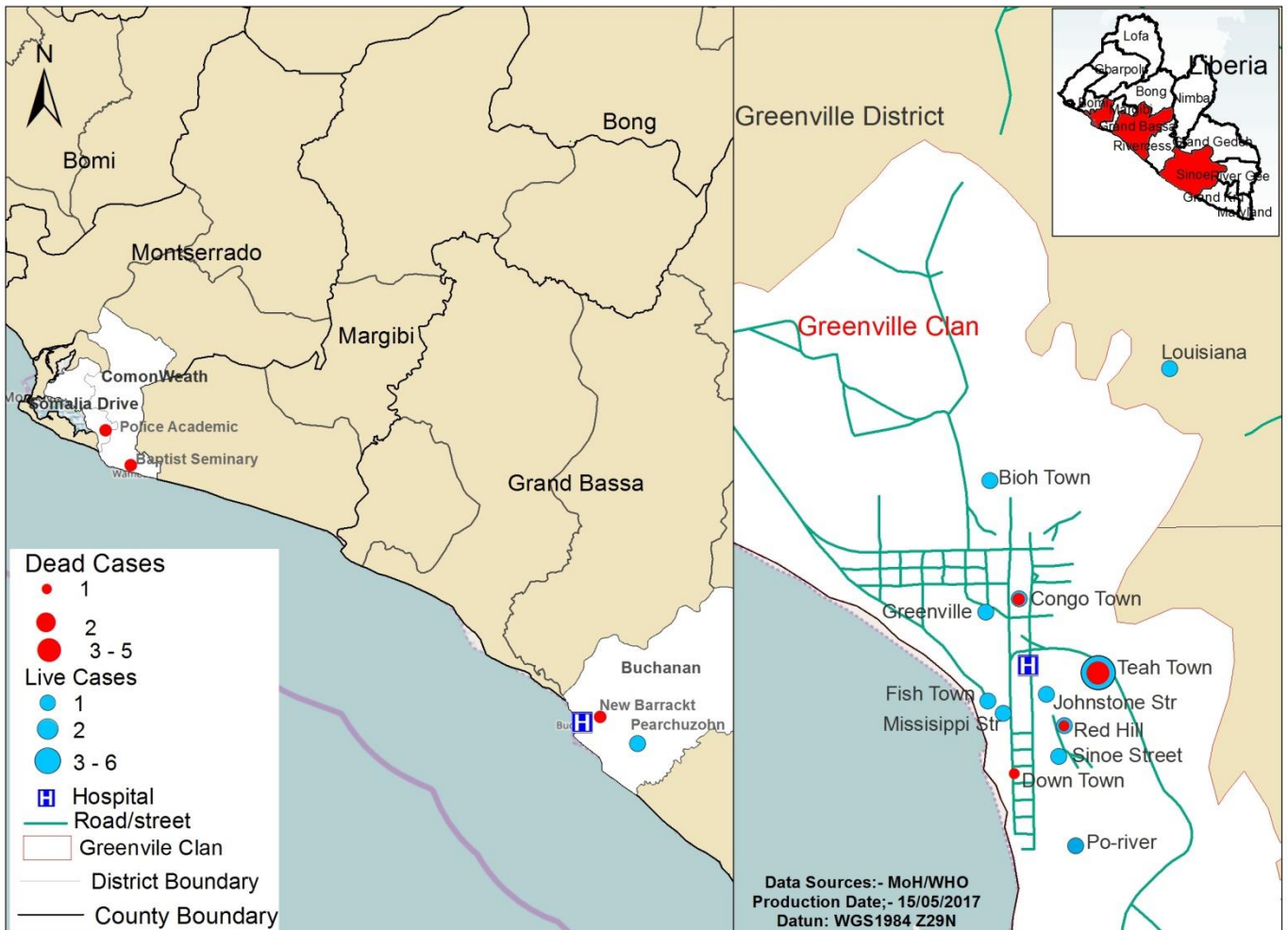


Figure 4 Geographical distribution of probable Meningitis Outbreak: Liberia, 15 May, 2017



Planned Action Points/Recommendations

County

- Increase public awareness on meningitis and disseminate prevention messages
- Ongoing surveillance in communities and health facilities
- Administer prophylaxis to health care workers, attendees and contacts of cases

National

- Continue to provide technical, operational and logistical support for the on-going response in Sinoe, Grand Bassa and Montserrado Counties.
- Work with Counties to determine response state of preparedness (lab specification for CSF collection and transportation, medical supplies and IPC)
- Supply counties with antibiotics for treatment of cases and prophylaxis of exposed persons

Challenges

- Non currently identified

Summary table of Meningitis Outbreak

May 15, 2017

	Sinoe	Montserrado	Grand Kru	Grand Gedeh	Maryland	Grand Bassa	Total
New Live Case/s May 14, 2017							
New Case/s (Suspected)	0	0	0	0	0	0	0
New Case/s (Confirmed)	0	0	0	0	0	0	0
Total suspected cases	27	2	0	0	0	2	31
Cumulative	27	2	0	0	0	2	31
Newly Reported Cases in HCW	0	0	0	0	0	0	0
Cumulative cases among HCW	0	0	0	0	0	0	0
Newly Reported deaths in HCW	0	0	0	0	0	0	0
Cumulative deaths among HCW	0	0	0	0	0	0	0
New admissions in Treatment Unit today	0	0	0	0	0	0	0
Total no. currently in Treatment Units	0	0	0	0	0	0	0
Total discharges, alive(outpatient and in-patient)	13	0	0	0	0	1	14
Cumulative admission/isolation, alive	13	0	0	0	0	1	14
Newly reported deaths	0	0	0	0	0	0	0
Cumulative death in suspected cases	10	2	0	0	0	1	13
Case fatality Rate (CFR)	37%	100%	0	0	0	50%	41.9%
Specimens collected (May 14, 2017)	0	0	0	0	0	0	7
Specimens pending for testing	0	0	0	0	0	0	0
Total specimens tested	44	4	0	0	0	3	51
Total sample tested for EVD and Lassa Fever	23	4	0	0	0	2	29
Total specimens collected (as of May 14, 2017)	44	4	0	0	0	3	51
New Contacts	0	0	0	0	0	0	0
Total contacts	152	40	0	0	0	22	214
Total contacts followed	152	40	0	0	0	22	214
Contacts lost to Follow-up	0	0	0	0	0	0	0
New attendees identified	0	0	0	0	0	0	0
Total attendees identified	60	21	4	3	18	4	110

For comments or questions, please contact

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