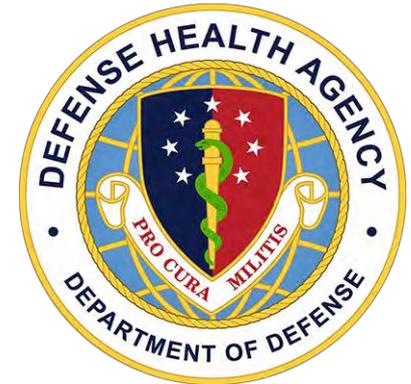


Department of Defense
Armed Forces Health Surveillance Branch
West Africa Ebola Surveillance Summary
(25 NOV 2015)



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For questions or comments, please contact:

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CASE REPORT: On 20 NOV, [Liberia reported](#) the re-emergence of Ebola virus disease (EVD) with three new confirmed Ebola cases in one family of six in Paynesville, Monrovia. The first family member diagnosed was a 15-year-old boy (originally reported as 10 years old) who became ill on 14 NOV, was admitted to a local hospital, and then transferred to the ELWA Ebola Treatment Unit. The MOH confirmed the case on 19 NOV. The boy died on 23 NOV. The boy's father and 8-year-old brother tested Ebola virus positive on 20 NOV. Investigations to establish the origin of infection are at an early stage. Liberia has identified 149 contacts, including 10 health care workers. Liberia was declared EVD-free on 3 SEP and was at day 78 of its 90-day period of heightened surveillance.

According to [WHO on 25 NOV](#), as of 22 NOV, there have been 28,637 (+3) confirmed, suspected, and probable cases in Guinea, Sierra Leone, Liberia, Italy, Senegal, Nigeria, United Kingdom, Spain, Mali, and the United States. The death reported by Liberia on 23 NOV brings the total deaths to 11,315. WHO considers the West Africa epidemic to be in a [phase 3 response](#), which implements specific actions to achieve and maintain zero virus transmission. WHO declared Sierra Leone Ebola transmission-free on 7 NOV after 42 days had passed with no new cases and it is in a 90-day period of heightened surveillance. Guinea started its 42-day countdown to becoming Ebola transmission-free on 16 NOV after its last case tested negative for the infection.

A growing volume of data from clinical observation and testing of recovered EVD patients indicates that the Ebola virus can persist at various sites in the body for many months in some people, [according to WHO](#). CDC has posted information on persistent medical conditions after recovery from EVD.

On 1 OCT, WHO's seventh [Emergency Committee meeting](#) on the EVD outbreak agreed that the outbreak continued to constitute a Public Health Emergency of International Concern (PHEIC) and proposed new temporary recommendations that would supersede those previously issued.

DoD RESPONSE: On 10 AUG, the Deputy Secretary of Defense signed a [memorandum](#) declaring that DoD needs to maintain the capability to operate in an infectious disease environment in the future. The memorandum extends for at least one year following the 30 JUN 2015 end of OUA selected DoD policies and EVD-related responsibilities, including those related to health surveillance, personal protective equipment, medical treatment for deployed DoD personnel, and transport of exposed or infected DoD personnel. DoD personnel continue to provide support to the Liberian Institute of Biomedical Research.

DIAGNOSTICS AND MEDICAL COUNTERMEASURES: CDC's Laboratory Response Network (LRN) is deploying CDC's Ebola Virus NP and VP40 Real Time RT-PCR assays. These Emergency Use Authorization assays will replace DoD's Ebola Virus EZ1 Real Time RT-PCR assay. DoD's LRN labs will transition to the CDC assays. Additional information on [vaccines, therapies, and diagnostics](#) is available from WHO.

TRAVEL ADVISORY: As of 25 NOV, the CDC travel advisory for Liberia remains [Watch - Level 1, Practice Usual Precautions](#). On 2 NOV, CDC lowered its travel warning for Sierra Leone to [Alert - Level 2, Practice Enhanced Precautions](#). CDC is maintaining its [Warning - Level 3, Avoid Nonessential Travel](#) advisory for Guinea. The State Department issued an [updated travel notice](#) for West Africa on 21 SEP when CDC announced that [enhanced entry screening was discontinued](#) for travelers coming to the U.S. from Liberia. These travelers will no longer be funneled through the five U.S. airports [conducting enhanced entry screening](#) (JFK, Newark Liberty, Washington Dulles, Chicago O'Hare, and Atlanta Hartsfield-Jackson). As of 10 NOV, CDC recommends that travelers from Liberia and Sierra Leone self-monitor for fever or other symptoms of Ebola for 21 days after departure. Recommendations and procedures have not changed for travelers entering the United States from Guinea; CDC recommends that state public health departments implement active post-arrival monitoring for 21 days along with other movement restrictions based on a traveler's exposure risk category using CDC definitions for travelers from Guinea.

Text updated from the previous report will be printed in red; items in (+xx) represent the change in number from the previous AFHSB summary (19 NOV 2015).

All information has been verified unless noted otherwise. Sources include NCMI, WHO, HHS, CDC, DoS, and health agencies in Guinea, Liberia, and Sierra Leone.

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Latest Available Ebola Case Counts in or Related to West Africa, 2014-2015

Country (as of date)	EVD Cases All / Lab Confirmed	Deaths All / Lab Confirmed	EVD Cases in HCW / Deaths	Contacts Being Followed
Guinea (22 NOV)	3,804 / 3,351	2,536 / 2,083	196 / 100	0
Sierra Leone (8 NOV)	14,122 / 8,704	3,955 / 3,589	307 / 221	0
Liberia (23 NOV)	10,675 (+3) / 3,160 (+3)	4,809 (+1) ^{††} / NA	378 / 192	149
Italy (20 JUL)	1 / 1 ^{***}	0 / 0	1 / 0 ^{***}	0
United Kingdom (22 JAN 2015)	1 / 1 ^{***}	0 / 0	1 / 0 ^{***}	0
United States (4 DEC 2014)	4 / 4 ^{**}	1 / 1	3 / 0	0
Mali (21 DEC 2014)	8 / 7	6 / 5	2 / 2	0
Nigeria (17 SEP 2014)	20 / 19	8 / 7	11 / 5	0
Senegal (20 SEP 2014)	1 / 1 [*]	0 / 0	0 / 0	0
Spain (2 DEC 2014)	1 / 1	0 / 0	1 / 0	0
Total (23 NOV)	28,637 (+3) / 15,249 (+3)	11,315 (+1) / 5,685[†]	900 / 520	149

[†]Excluding Liberia / ^{*}Imported from Liberia / ^{**}1 imported from Guinea / ^{***}Imported from Sierra Leone / NA = Not Available.

^{††}Includes the death reported by Liberia after the end of WHO's 16 to 22 NOV reporting period.

Shaded rows represent countries which have been declared Ebola transmission-free by WHO.

The total number of cases, which includes suspect, probable, and confirmed cases, is subject to change due to reclassification, retrospective investigation, consolidation of cases and laboratory data, and enhanced surveillance.

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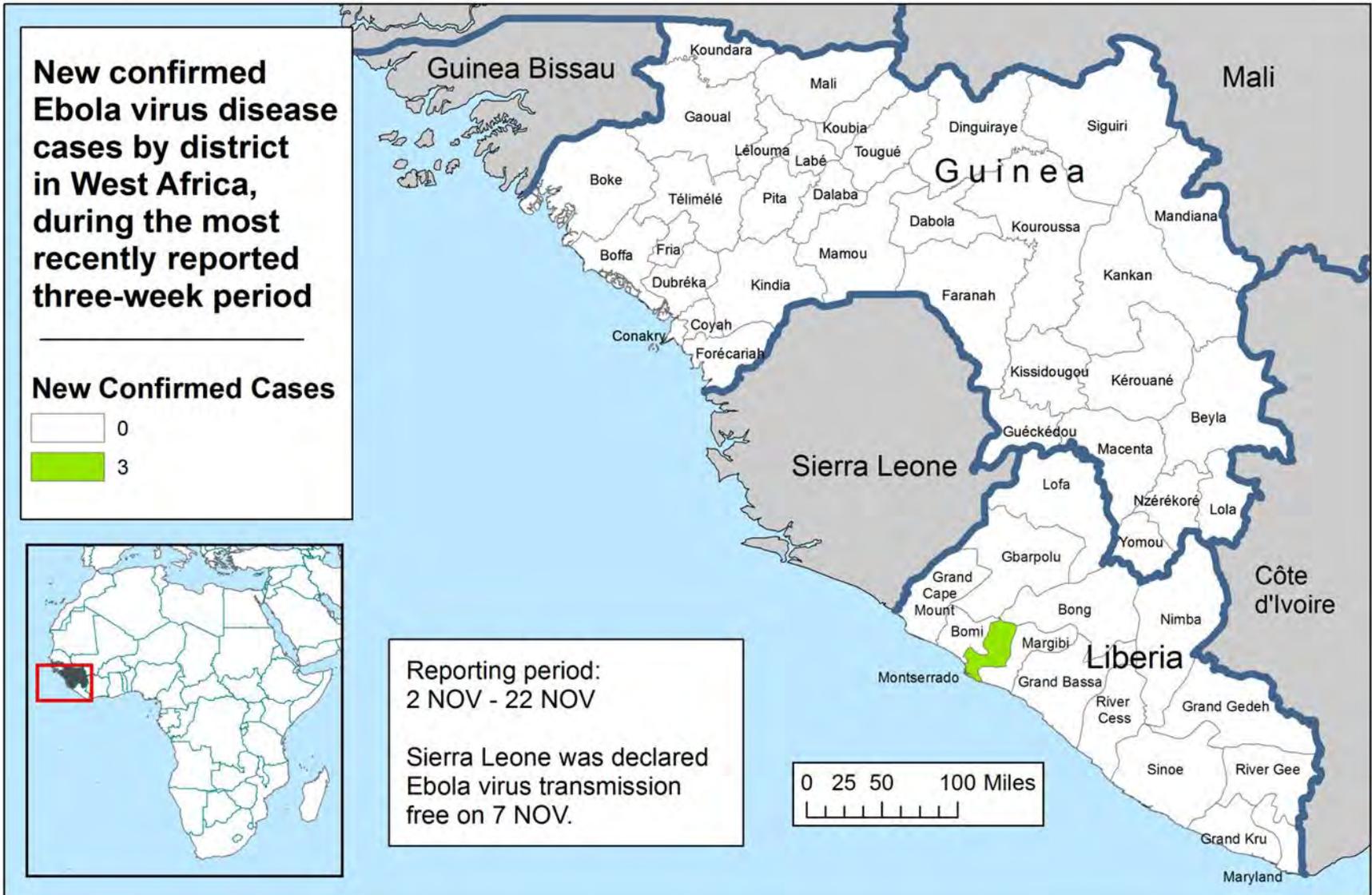
All information has been verified unless noted otherwise. Sources include WHO, CDC, and health agencies in Guinea, Liberia, Sierra Leone, Mali, and the UK.



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All information has been verified unless noted otherwise. Sources include WHO, and the Guinea, Liberia, and Sierra Leone Ministries of Health.



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Additional Resources and Media Reports

Ebola Web Sites

- [WHO](#)
- [CDC](#)
- [Liberia MOH](#)
- [Sierra Leone MOH](#)
- [Humanitarian Response \(West Africa\)](#)
Access to MOH, WHO, UN, and other reports
- [AFHSB Guidelines for Detecting and Reporting DoD Cases of Ebola Virus](#)
- [USAMRIID](#)
- [State Department Travel Site](#)
- [USAID Ebola Site](#)
- [DoD News](#)

Information and News

- [Ebola Situation Report - 25 November 2015](#) (WHO, 25 NOV)
- [Puzzling Ebola death shows how little we know about the virus](#) (NPR, 24 NOV)
- [Amid failure and chaos, an Ebola vaccine](#) (NY Times, 24 NOV)
- [An indictment of Ebola response](#) (Harvard Gazette, 22 NOV)
- [Guinea counts down to end of Ebola](#) (VOA, 18 NOV)
- [Ebola Survivors](#) (CDC, 9 NOV)
- [Use of ChAd3-EBO-Z Ebola virus vaccine in Malian and US adults...](#) (Lancet Infectious Disease, 3 NOV)
- [Effectiveness of ring vaccination as control strategy for Ebola virus disease](#) (EID, 2 NOV)
- [The politics behind the Ebola crisis](#) (International Crisis Group, 28 OCT)
- [Ebola virus disease complicated by late-onset encephalitis and polyarthritits, Sierra Leone](#) (EID, 27 OCT)
- [Saving lives: The civil-military response to the 2014 Ebola outbreak in West Africa](#) (Univ. of Sydney, 23 OCT)
- [Persistent virus in people recovering from Ebola virus disease](#) (WHO, 14 OCT)
- [Ebola response phase 3](#) (WHO, SEP 2015)
- [Termination of Operation United Assistance and maintaining certain DoD Ebola virus disease-related guidance and authorities](#) (U.S. DoD, 10 AUG)
- [Report of the Ebola Interim Assessment Panel](#) (WHO, 7 JUL)