



DEPARTMENT OF DEFENSE (AFHSC)

West Africa Ebola Surveillance Summary #83

5 FEB 2015 (next report 9 FEB 2015)



CASE REPORT: Since the previous summary (2 FEB), there has been an increase of 178 confirmed, suspected, and probable Ebola virus disease (EVD) cases (+70 deaths), bringing the total to 22,582 cases (9,016 deaths). These cases and deaths are reported from Guinea, Liberia, and Sierra Leone, where ongoing transmission continues; Senegal, Nigeria, United States, Spain, and Mali, where there have been no incident cases over at least the past 21 days; and the United Kingdom, which reported one travel-related case (Sierra Leone) on 29 DEC 2014.

In a 4 FEB 2015 [situation report](#), the WHO said weekly case incidence increased in all three countries for the first time this year; there were 124 new confirmed cases reported from the most affected countries between 26 JAN and 1 FEB: 39 in Guinea, 5 in Liberia, and 80 in Sierra Leone. The WHO attributed the increase to continued community resistance and increasing geographical spread in Guinea and widespread transmission in Sierra Leone. The WHO also reported that 10 of 34 prefectures in Guinea reported at least one security incident or refusal to cooperate in the week to 1 FEB, while only 3 districts in Sierra Leone reported incidents and Liberia reported no such incidents. Over the most recent three-week period with available data, total cases have increased 5% in Liberia (ending 1 FEB), 6% in Sierra Leone (ending 3 FEB), and 6% in Guinea (ending 1 FEB).

On 20 JAN 2015, WHO convened the fourth Emergency Committee meeting on the 2014 EVD outbreak. [The Committee unanimously agreed](#) that the outbreak continues to constitute a Public Health Emergency of International Concern (PHEIC). The committee also stated that all previous temporary recommendations remain in effect with some additional advice on exit screening and active surveillance in border areas.

DoD SURVEILLANCE GUIDELINES: On 31 OCT 2014, the Under Secretary of Defense (USD) for Personnel and Readiness [issued a memorandum](#) providing guidance for training, screening, and monitoring for DoD personnel deployed to Ebola outbreak areas. The USD also published electronic versions of the [Ebola risk evaluation form](#) (DD2990) and [redeployment risk assessment form](#) (DD2991). On 5 JAN 2015, the Armed Forces Health Surveillance Center published [updated guidelines](#) for the detection and reporting of DoD cases of EVD.

RISK TO RESPONSE PERSONNEL: There is significant risk to medical personnel who care for Ebola patients or handle patients or samples without proper PPE; risk to non-medical personnel is low provided there is no contact with sick people or infected animals.

MEDICAL COUNTERMEASURES: There are no approved vaccines or specific treatments for EVD. NIH reports that a [Phase 2/3 clinical trial called PREVAIL is testing the GSK and Merck vaccines in Liberia starting 2 FEB 2015](#). A vaccine produced by Johnson & Johnson with Bavarian Nordic [began safety trials](#) in Britain on 6 JAN 2015. Of [four drug candidates](#), ZMapp, TKM-Ebola, brincidofovir, and favipiravir. The latter two started [trials in West Africa](#) but trials of brincidofovir were halted on 31 JAN because there are too few patients available. On 2 JAN 2015, Aethlon Medical Inc. [reported FDA approval](#) of their request to test an anti-viral hemopurification device on EVD patients in the U.S. at the Nebraska Medical Center. The device was [successfully used](#) on a patient in Germany. WHO, with Guinea, Sierra Leone and Liberia, continue to develop capacity to collect and use convalescent sera from recovered Ebola patients to experimentally treat ill patients in West Africa. On 9 DEC 2014, [HHS offered liability protections](#) to drug makers developing Ebola vaccines.

Links to Additional Sections of this Report

DoD, USG and Global Response & Travel Advisories	Latest Case Counts	Cases by Admin Area (map)
New Cases (Last 21 days) by Admin Area (map)	Cumulative Cases	Additional Resources

Text updated from the previous report will be printed in red; items in (+xx) represent the change in number from the previous AFHSC summary (2 FEB 2015).

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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DoD RESPONSE: About 1,600 DoD personnel are currently deployed in West Africa for the Ebola response. In Liberia, one Ebola testing laboratory manned by personnel from the U.S. Naval Medical Research and four Army Area Medical Laboratories are fully operational. DoD has completed and transferred to USAID all ten planned ETUs. On 1 JAN 2015, AFRICOM was [scheduled to transition](#) its critical healthcare worker training mission to partners in the WHO, ETU healthcare workers trained as trainers, and the contracting company PAE. **On 3 FEB, 226 military personnel returned to Fort Bliss, TX to enter controlled monitoring, with another 120 arriving within the following 48 hours according to local news agencies.**

On 8 JAN 2015, SECDEF signed a memo delegating authority to use DoD aircraft to transport Ebola symptomatic or exposed DoD personnel. On 17 DEC 2014, the CJCS issued an updated [CJCSI 4220.01A](#), implementing SECDEF's 21-day controlled monitoring policy. The updated policy lays out who is affected and how the monitoring will be conducted, including naming seven monitoring sites: Ft. Bliss, TX; JB Langley-Eustis, VA; Ft. Hood, TX; Ft. Bragg, NC; and JB Lewis-McCord, WA in CONUS, plus USAG Baumholder, Germany and Caserma Del Din, Vicenza, Italy, OCONUS. On 7 NOV 2014, [DoD issued guidance](#) on medical care of DoD civilians deployed to Ebola outbreak areas.

On 14 NOV 2014, [SECDEF authorized](#) the involuntary mobilization of up to 2,100 Reserve and National Guard troops for Operation United Assistance (OUA). On 23 JAN 2015, Press Secretary Admiral Kirby said, "OUA does not require several National Guard units that were initially considered for deployment," [confirming that U.S. forces](#) will leave West Africa.

FDA has issued [Emergency Use Authorizations \(EUA\)](#) for several in vitro diagnostics for detection of Ebola virus. Under the EUAs, the DoD EZ1 real time RT-PCR Ebola Zaire virus detection assay developed by USAMRIID is approved for human diagnostic testing at the following DoD labs: USAMRIID, Landstuhl RMC, NIDDL at NMRC, NHRC, NAMRU-3, NAMRU-6, William Beaumont AMC, Carl R. Darnall AMC, Madigan AMC, Tripler AMC, and SAAMC. In Liberia, the Navy's mobile lab and the USAMRIID-supported Liberian Institute for Biological Research in Monrovia are qualified to perform Ebola diagnostic testing on U.S. personnel. Joint Base Langley-Eustis, Carl R. Darnall AMC, Wright-Patterson MC, WRNMMC, SAAMC, Madigan AMC, Womack AMC, Landstuhl RMC, and NIDDL have been approved as BioFire FilmArray NGDS BT-E Assay testing sites. The most recent assay approved under the EUA was the Roche [LightMix® Ebola Zaire rRT-PCR Test](#) for the presumptive detection of Ebola Zaire virus in individuals with signs and symptoms of Ebola disease, on 23 DEC 2014.

USG AND GLOBAL RESPONSE: Current information and guidance is available at the [CDC](#) and [WHO](#) Ebola web sites. **On 2 FEB, CDC published Q&A's about [transporting pediatric Ebola suspects or confirmed cases](#).**

TRAVEL ADVISORY: The U.S. announced on 21 OCT 2014 that [all flights carrying travelers from the affected West African nations](#) must enter the U.S. through one of the five designated airports that are conducting enhanced screening for EVD (JFK, Newark Liberty, Washington Dulles, Chicago O'Hare, and Atlanta Hartsfield-Jackson). On 5 JAN 2015, the U.S. ended the screening requirement for [travelers from Mali](#) and on 6 JAN, the CDC removed its [Alert – Level 2, Practice Enhanced Precautions](#) for Mali. The CDC is maintaining its [Warning - Level 3, Avoid Nonessential Travel](#) advisory for Guinea, Sierra Leone, and Liberia. On 2 NOV 2014, U.S. Customs and Border Protection (CBP) said U.S. military aircraft do not need to be re-routed to one of these airports, provided that CBP has ensured the established DoD screening protocols will take place at the arrival location. On 28 OCT 2014, the CDC recommended that state public health departments [begin direct active post-arrival monitoring for 21 days](#) along with other movement restrictions based on a traveler's exposure risk category using CDC definitions. On 20 JAN 2015, WHO reaffirmed the need to avoid unnecessary interference with international travel and trade.

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All information has been verified unless noted otherwise. Sources include DoD, WHO, CDC, and USAID DART team.

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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 (1 FEB)	2,975 (+16) / 2,608 (+15)	1,944 (+7) / 1,597 (+2)	164 (+2) / 88	1,195
Liberia (1 FEB)	8,757 (+77) / 3,143 (+5)	3,755 (+36) / NA	371 / 179	198
Sierra Leone (3 FEB)	10,815 (+85) / 8,098 (+42)	3,302 (+27) / 2,936 (+27)	287 (+4) / 221	8,432
United Kingdom (22 JAN)	1 / 1 ***	0 / 0	1 / 0***	0
United States (4 DEC)	4 / 4* **	1 / 1	3 / 0	0
Mali (21 DEC)	8 / 7	6 / 5	2 / 2	0
Nigeria (17 SEP)	20 / 19	8 / 7	11 / 5	0
Senegal (20 SEP)	1 / 1*	0 / 0	0 / 0	0
Spain (2 DEC)	1 / 1	0 / 0	1 / 0	0
Total	22,582 (+178) / 13,882 (+62)	9,016 (+70) / 4,546 (+29)†	840 (+6) / 495	9,825

Case Fatality Proportion: As of 4 FEB 2015, the WHO said the case fatality rate in the three intense-transmission countries among cases for whom a definitive outcome is recorded is between 50% and 61%. For hospitalized patients, the case fatality rate is 55% in Guinea, 59% in Liberia, and 61% in Sierra Leone.

†Excluding Liberia / *Imported from Liberia / **1 imported from Guinea / ***Imported from Sierra Leone / NA = Not Available
 Shaded countries have been declared Ebola transmission-free by WHO.

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

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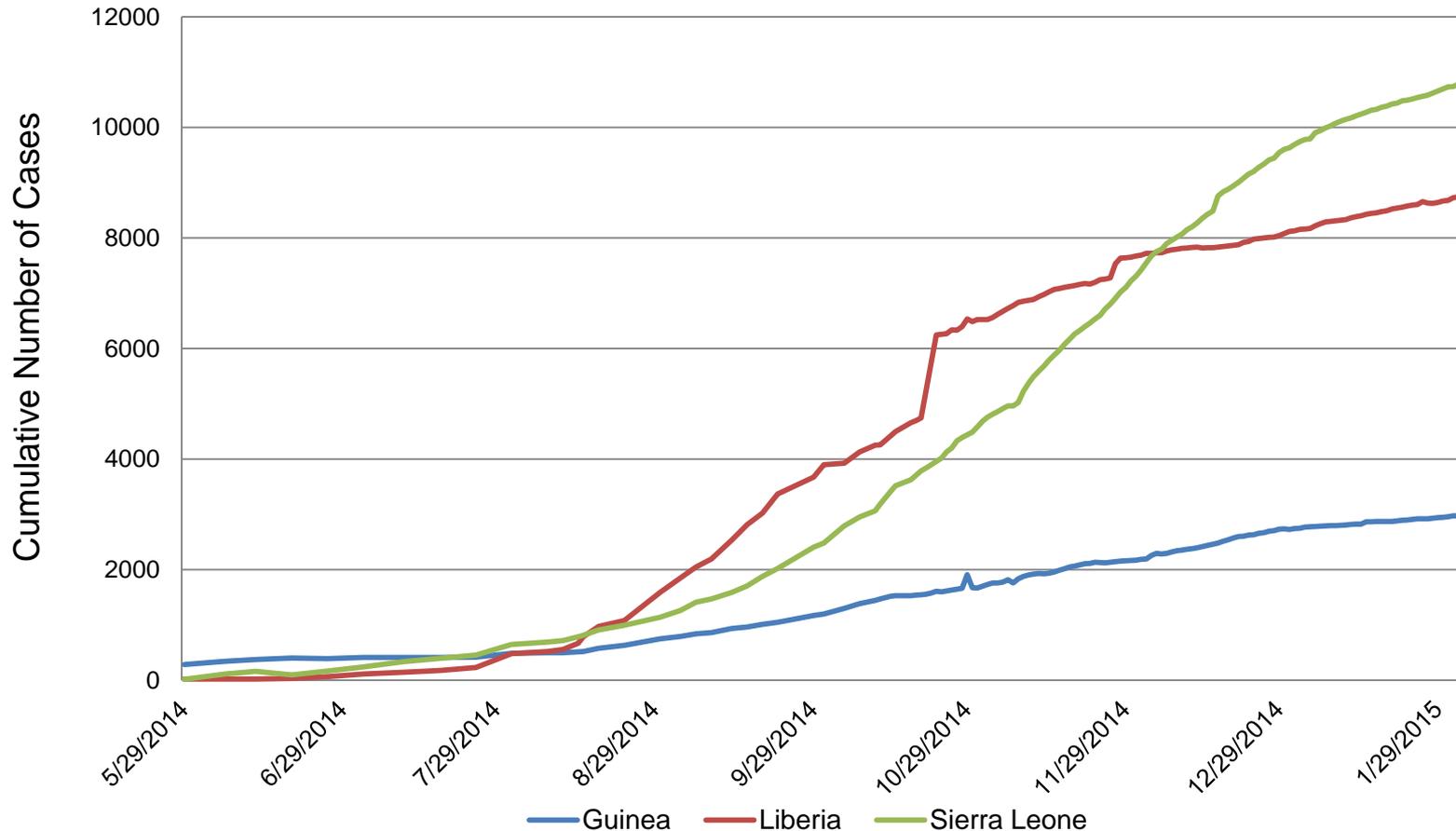
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Cumulative number of confirmed, probable, or suspected cases of Ebola Virus Disease in West Africa, 29 MAY 2014 – 2 FEB 2015



Cases reported in Senegal, Nigeria, Spain, Mali, the U.K., and the U.S. are not included in the graph. The total number of cases may vary weekly due to reclassification, retrospective investigation, consolidation of cases and laboratory data, and enhanced surveillance.

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

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Additional Resources and Media Reports

Ebola Web Sites

- [WHO](#)
- [WHO \(Africa\)](#)
- [CDC](#)
- [UNMEER Sit Reps](#)
- [Liberia MOH](#)
- [Sierra Leone MOH](#)
- [Humanitarian Response \(West Africa\)](#)
Access to MOH, WHO, UN, and other reports
- [AFHSC guidelines](#)
- [USAMRIID](#)
- [State Department Travel Site](#)
- [USAID Ebola Site](#)
- [DoD News](#)
- [DoD Operation United Assistance Web Portal](#)
- [AFRICOM Operation United Assistance Web Portal](#)

Information and News

- [Military Ebola mission in Liberia coming to an end](#) (USA Today, 5 FEB)
- [CDC: Ebola virus sent to lower-tier lab likely not dangerous](#) (ABC News, 5 FEB)
- [France says results of trials in Guinea of anti-Ebola drug encouraging](#) (Fox News, 5 FEB)
- [Liberia: Ebola mission ends? Liberia shuts treatment units, \[drug trial\] off](#) (AllAfrica.com, 4 FEB)
- [Blood from Ebola survivors could help spur new disease treatments](#) (Reuters, 4 FEB)
- [Tough challenges for testing Ebola therapeutics](#) (WHO Bulletin, 2 FEB)
- [Ebola vaccine trial gets underway](#) (Irish Times, 2 FEB)
- [In pursuit of next-generation Ebola stockpile vaccines](#) (Reuters, 2 FEB)
- [How bad data fed the Ebola epidemic](#) (NY Times, 31 JAN)
- [Chimerix to stop participation in clinical studies of Ebola drug](#) (Reuters, 31 JAN)
- [UN warns Ebola epidemic 'not yet contained'](#) (Tribune, 29 JAN)
- [In Ebola response, Big Pharma and public sector strive to make up for lost time](#) (Global Post, 29 JAN)
- [Trial finds GSK Ebola shot is safe and provokes immune response](#) (Reuters, 29 JAN)
- [Ebola crisis: world 'dangerously unprepared' for future pandemics](#) (BBC, 28 JAN)

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