# Armed Forces Health Surveillance Center
# West Africa Ebola Surveillance Summary
# (26 FEB 2015)

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*For questions or comments, please contact:*
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# DEPARTMENT OF DEFENSE (AFHSC)

## West Africa Ebola Surveillance Summary #88

### 26 FEB 2015 (next report 5 MAR 2015)

**CASE REPORT:** Since the previous summary (23 FEB), there has been an increase of 63 confirmed and 237 suspected and/or probable Ebola virus disease (EVD) cases, (+150 total deaths), bringing the total to 23,767 cases (9,621 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 its 23 FEB 2015 situation report, WHO said engaging effectively with communities remains a challenge, and a significant proportion of new cases in Guinea and Sierra Leone are from unknown chains of transmission. Case incidence in Guinea has decreased; 35 confirmed cases were reported in the week ending 22 FEB, compared to 52 cases the week prior. During the week ending 22 FEB, the Guinean prefecture of Mali reported a case linked to a man that traveled from Monrovia, Liberia, emphasizing the need for cross-border surveillance. In Sierra Leone, 63 cases were reported in the week ending 22 FEB compared to 96 cases in the previous week. From 16 to 19 FEB, there were 15 unsafe burials reported in the district of Bombali, and a sharp increase of 20 confirmed cases in the week to 22 FEB in that district. From 16 FEB to 22 FEB, Liberia reported one new confirmed EVD case in the country, related to a single chain of transmission in Monrovia, Montserrado County. Over the most recent three-week period with available data, total cases have increased 5% in Liberia (ending 22 FEB), 5% in Sierra Leone (ending 23 FEB), and 6% in Guinea (ending 22 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.

**MEDICAL COUNTERMEASURES:** There are no approved vaccines or specific treatments for EVD. On 9 DEC 2014, HHS offered liability protections to drug makers developing Ebola vaccines. Of four drug candidates, ZMAPP, TKM-Ebola, brincidofovir, and favipiravir, the latter two started trials in West Africa in JAN 2015. Trials of brincidofovir were halted on 31 JAN because there are too few patients available. 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. A comparison of the four Ebola vaccines being actively tested can be found on page 4 of this report, along with the current pharmaceutical treatments. WHO approved the first rapid test for Ebola developed by Corgenix; it is reportedly easy to perform, requires no electricity and gives a result within 15 minutes. Stada, a German pharmaceutical firm, will launch a new test for Ebola in MAR 2015; tests will be distributed to aid organizations in West Africa.


| Links to Additional Sections of this Report | | |
|---|---|---|
| DoD, USG and Global Response & Travel Advisories | Latest Case Counts | Medical Countermeasures in Development |
| New Cases (Last 21 days) by Admin Area (map) | New Confirmed Cases with Trend Line | 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 (23 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 1,300 DoD personnel are currently deployed in West Africa for the Ebola response. On 11 FEB, President Obama said that approximately 100 DoD personnel would remain as the response transitions to support provided mostly by civilian employees of government agencies and volunteers. In Liberia, three USG supported laboratories will retain full operations (the Liberian Institute of Biomedical Research in Margibi, Cuttington University in Bong, and the ELWA facility in Montserrado). The remaining AMLs (Sanniquellie, Tapita, and Greenville) will close during the week of 16 FEB 2015; the Zwerdu town AML and the Island Clinic lab in Montserrado have already completed closing procedures. DoD has completed and transferred to USAID all ten planned ETUs. 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.

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.

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 20 FEB, CDC released an MMWR on 'Rapid response to Ebola outbreaks in remote areas', detailing improvements made in contact tracing over time. On 11 FEB, the White House press office released a fact sheet outlining the international and domestic efforts made in response to Ebola in the U.S. and West Africa. On 10 FEB, WHO's Dr. Bruce Aylward commented on the upcoming challenges expected to affect response efforts including continued resource availability, sustained financing commitments, and logistical challenges that may be created by the upcoming rainy season.

**TRAVEL ADVISORY:** The CDC is maintaining its Warning - Level 3, Avoid Nonessential Travel advisory for Guinea, Sierra Leone, and Liberia. 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). U.S. military aircraft do not need to be re-routed to one of these airports, provided that Customs and Border Protections has been assured that 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, White House Press Office, WHO, CDC, and USAID DART team.

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## West Africa Ebola Surveillance Summary #88

## 26 FEB 2015

## 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 FEB) | 3,155 (+24) / 2,762 (+21) | 2,091 (+24) / 1,704 (+15) | 170 (+3) / 89 (+1) | 1,805 |
| Liberia (22 FEB) | 9,250 (+201) / 3,153 (+1) | 4,046 (+102) / NA | 372 / 180 (+1) | 277 |
| Sierra Leone (23 FEB) | 11,327 (+75) / 8,301 (+41) | 3,469 (+24) / 3,103 (+24) | 295 (+1) / 221 | 8,433 |
| 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 | 23,767 (+300) / 14,249 (+63) | 9,621 (+150) / 4,820 (+39)† | 855 (+4) / 497 (+2) | 10,515 |

**Case Fatality Proportion:** As of 25 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 54% and 66%. For hospitalized patients, the case fatality rate is 66% in Guinea, 54% in Liberia, and 64% 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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Return to Top

# Ebola Medical Countermeasures In Development, 2014-2015

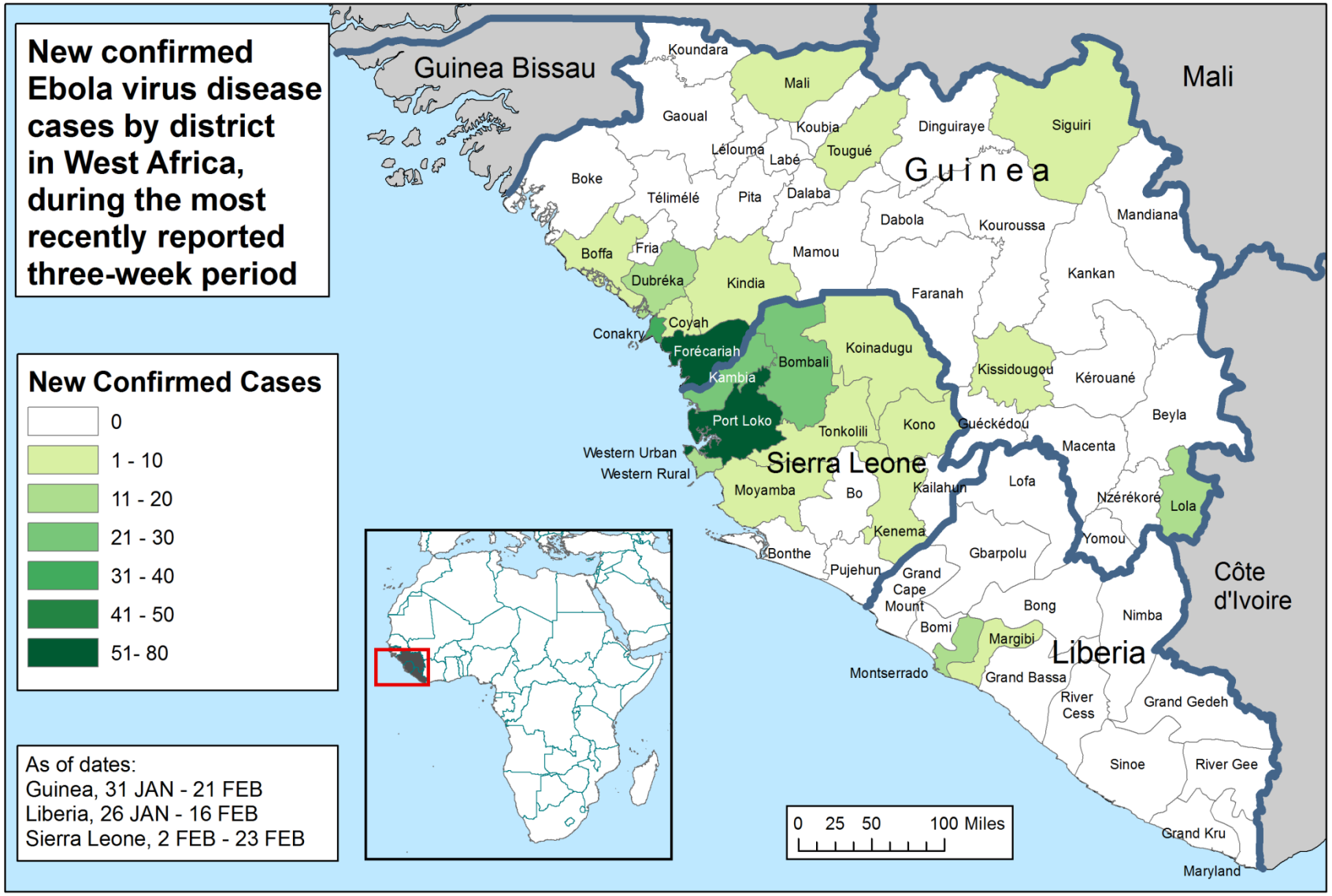
| Name | Type | Company | Testing Location | FDA Status |
|---|---|---|---|---|
| cAd3-EBO Z | Vaccine | GlaxoSmithKline partnered with NIAID | Liberia, Guinea (WHO) | Phase 2/3 |
| VSV-ZEBOV | Vaccine | Public Health Agency Canada/Newlink Genetics Corp partnered with Merck | Liberia, Guinea, Sierra Leone | Phase 2/3 |
| Ebola Ad26, MVA-BN-filo | Vaccine | Johnson & Johnson partnered with Bavarian Nordic A/S | Britain | Phase 1 |
| Ebola GP Vaccine | Vaccine | Novavax, Inc. | Australia | Phase 1 |
| Favipiravir | Drug | Toyama Chemical | Guinea | Phase 2 |
| Brincidofovir | Drug | Chimerix, Inc. | Liberia | Halted/cancelled |
| ZMAPP | Drug | Mapp Pharmaceuticals | Liberia | Phase 2 |
| TKM-Ebola | Drug | Tekmira Pharmaceuticals | Guinea, Sierra Leone | Phase 2 |
| Hemopurifier | Device | Aethlon Medical, Inc. | Nebraska Medical Center, Ebola Unit | Emergency Use |
| Convalescent Plasma Therapy | Procedure | ClinicalRM with multiple partners | Liberia, Guinea, Sierra Leone | Phase 1/2 |

All information has been verified unless noted otherwise. Sources include WHO, NIAID, CDC, FDA, NIH, and open source news.

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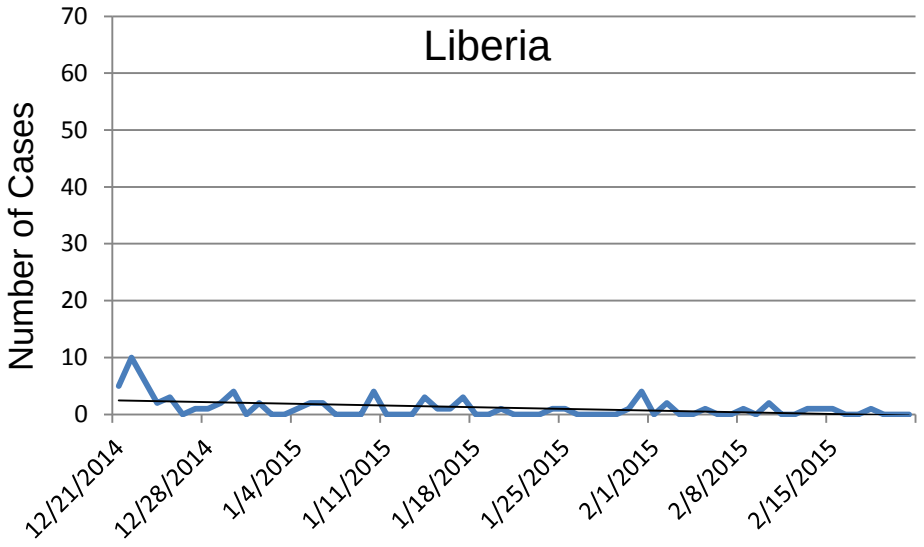
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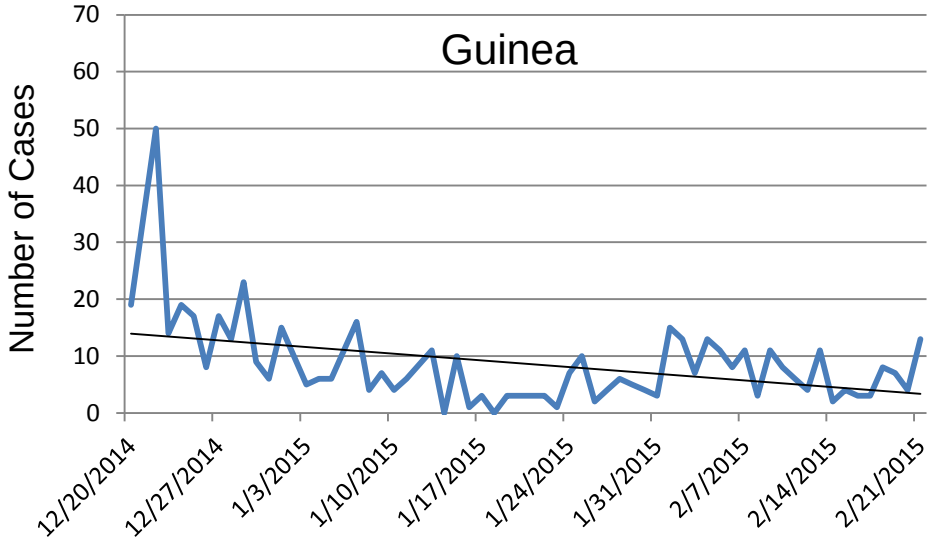
## 26 FEB 2015

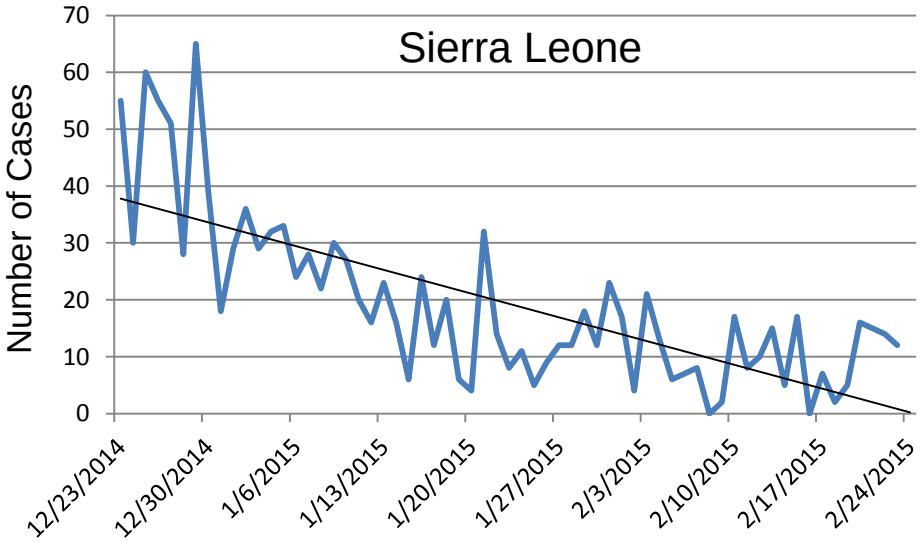



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Daily Reported Confirmed EVD Cases, with Trend Line, for Guinea, Liberia, and Sierra Leone




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Return to Top

# 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

- FDA approves Corgenix's Ebola test for emergency use (Reuters, 26 FEB)
- Many caveats on promising Ebola drug trial (Science, 24 FEB)
- Liberia lifts its curfew, but border stays sealed (NY Times, 22 FEB)
- Fifteen-minute Ebola test approved (BBC News, 20 FEB)
- Troops fighting Ebola faced bigger enemies: themselves and the environment (Health.mil, 18 FEB)
- Ebola risks linger, officials warn (NY Times, 19 FEB)
- Sierra Leone hunts infected as Ebola crisis hits 'turning point' (Daily Mail, 18 FEB)
- Liberia reopens dozens of schools as Ebola wanes (Reuters, 16 FEB)
- Ebola prompts mini-quarantine in Sierra Leone capital (USA Today, 14 FEB)
- Crowds attack Ebola facility, health workers in Guinea (Reuters, 14 FEB)
- Sierra Leone audit claims Ebola funds unaccounted for (BBC, 13 FEB)
- Withdrawing troops, Obama calls for vigilance on Ebola (NY Times, 12 FEB)
- Red Cross Ebola teams in Guinea attacked 10 times a month (Reuters, 12 FEB)
- The U.S. helped beat back Ebola — only not in the way you might think (NPR, 11 FEB)
- FACT SHEET: Progress in our Ebola response at home and abroad (The White House Press Office, 11 FEB)

Return to Top