

Curbing The Ebola Outbreak: Are We on the Right Track?

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Overview

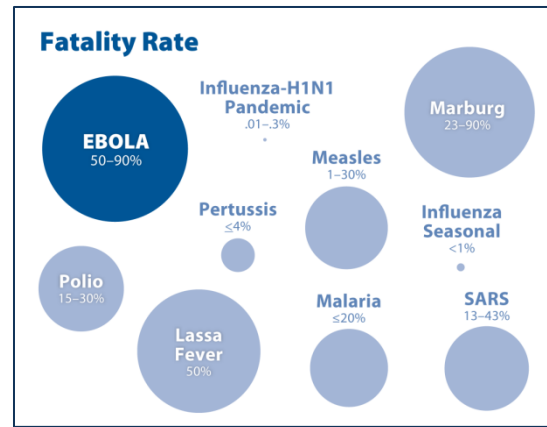
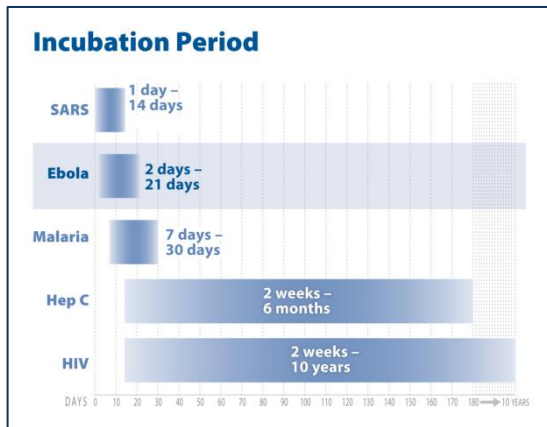
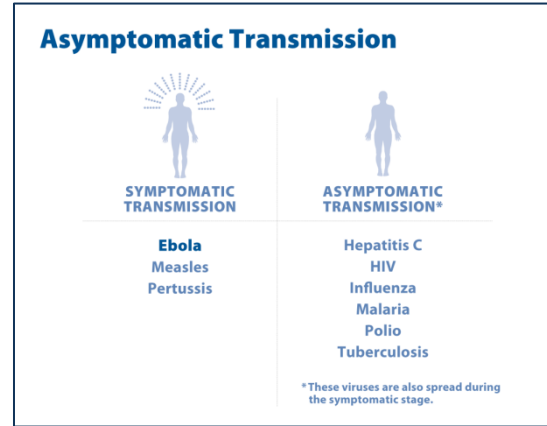
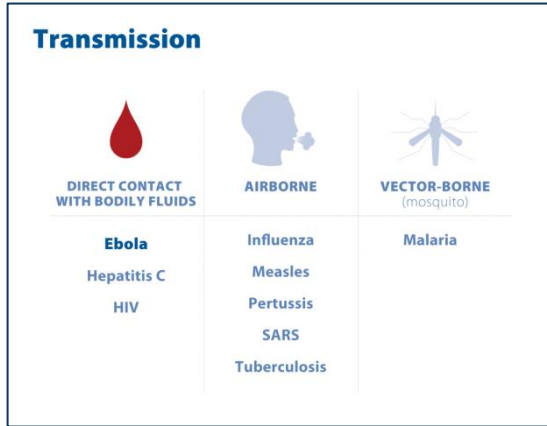
Snapshot

- **Current outbreak started and remains centered in West Africa:**
 - **Likely began in December 2013; first notified in March 2014, major escalation of cases by July 2014**
 - **Declared “Public Health Emergency of International Concern” by WHO on August 8, 2014**
 - **To date, accounts for almost 9 in 10 (86%) Ebola cases ever reported**
- **Cases in current outbreak have been reported in 8 countries thus far:**
 - **3 most affected countries: Liberia, Sierra Leone, Guinea**
 - **2 countries since declared Ebola free (no new cases after 42 days): Nigeria, Senegal**
 - **3 countries still in 42 day period: Mali, Spain, United States**

Key Characteristics

- **Ebola is a virus**
- **It is only transmitted through direct contact with bodily fluids**
- **It is only transmitted when an infected individual is symptomatic**
- **Incubation period is 21 days**
- **There is no vaccine to prevent Ebola, no treatment for the disease (other than treatments for its symptoms and some experimental treatments), and no cure**
- **Has a very high case fatality rate**

Infographic @ <http://kff.org/global-health-policy/>



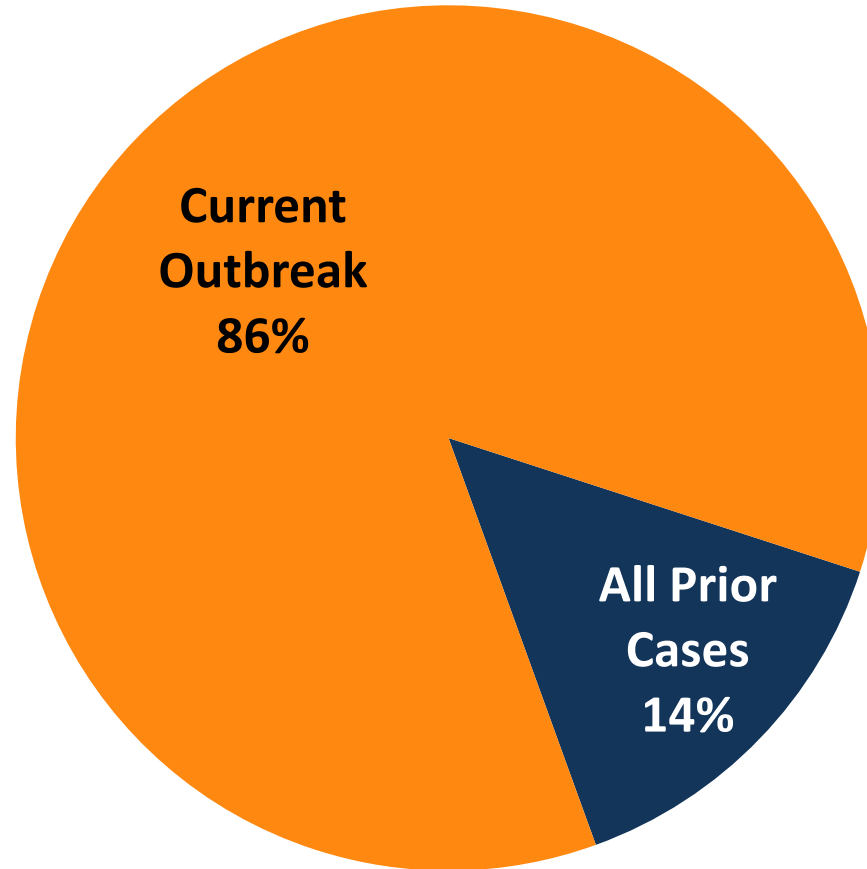
Treatment

	VACCINE	TREATMENT	CURE
Ebola	NO	NO	NO
Measles		NO	NO
Pertussis			
HIV	NO		NO
Influenza - Seasonal			NO

SOURCE: Kaiser Family Foundation, Ebola Characteristics and Comparisons to Other Infectious Diseases, <http://kff.org/infographic/ebola-characteristics-and-comparisons-to-other-infectious-diseases/>.

Impact

Ebola Cases in Current Outbreak as Share of all Ebola Cases Ever Reported

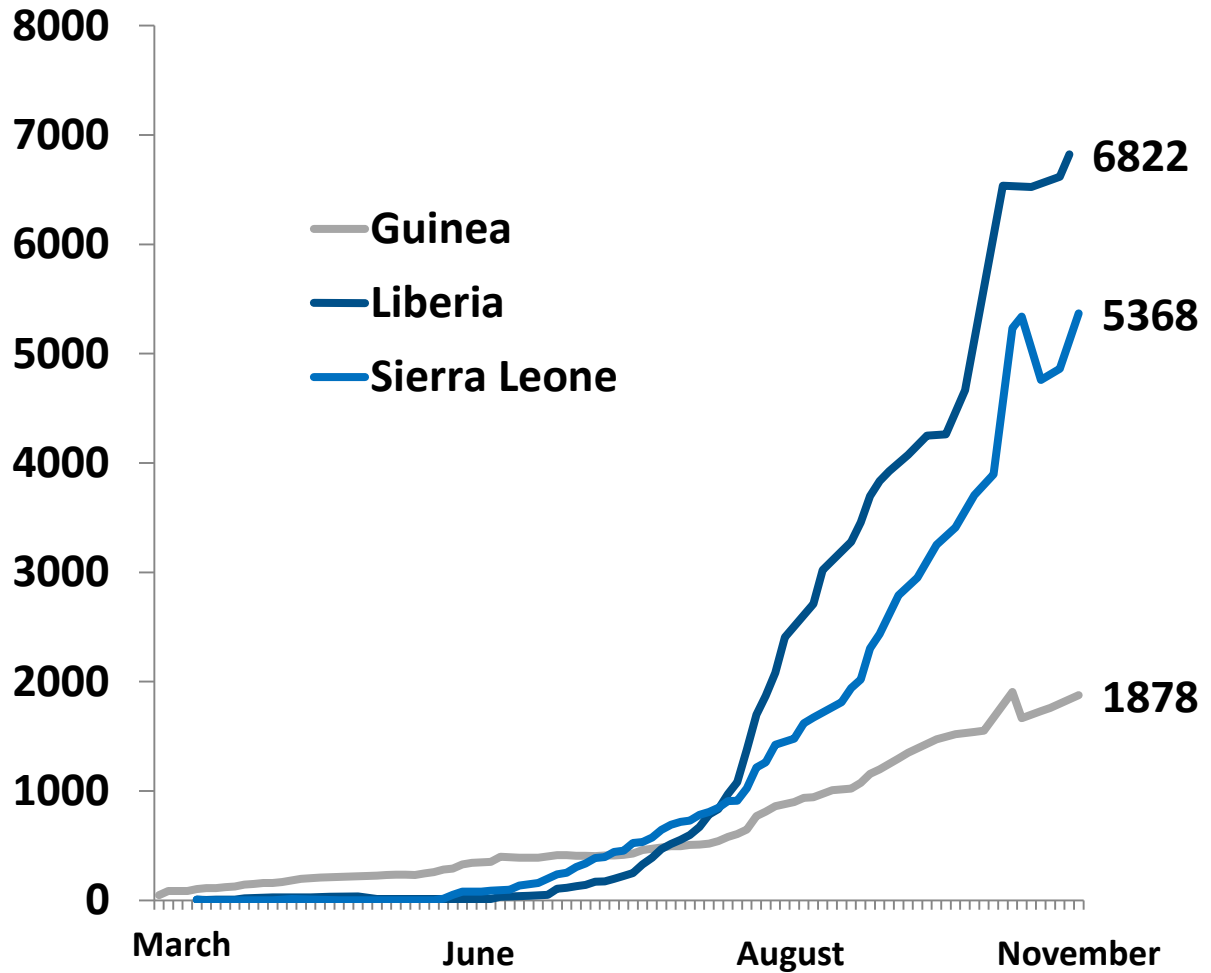


Total Number of Cases Ever Reported = 16,483

NOTES: Data as of November 12, 2014.

SOURCES: WHO Ebola Fact Sheet <http://www.who.int/mediacentre/factsheets/fs103/en/>; WHO Situation report - 12 November 2014, http://apps.who.int/iris/bitstream/10665/141468/1/roadmapsitre_12Nov2014_eng.pdf?ua=1; Humanitarian Data Exchange, <http://docs.hdx.rwlab.org/a-new-ebola-crisis-page-built-with-open-data/>;

Trends in Ebola Cases in Liberia, Sierra Leone, Guinea, March–November, 2014



NOTES: Cumulative Cases by Day. Data as of November 12, 2014.

SOURCES: WHO Situation report - 12 November 2014, http://apps.who.int/iris/bitstream/10665/141468/1/roadmapsitre_12Nov2014_eng.pdf?ua=1; Humanitarian Data Exchange, <http://docs.hdx.rwllabs.org/a-new-ebola-crisis-page-built-with-open-data/>;



Beyond the Immediate Health Impacts

- **Secondary health impacts**
 - Loss of health care workers
 - Collapse of health systems
 - Exacerbate other health problems if people can't get care
- **Economic (World Bank estimates)**
 - Short-term impact reduction in 2.1 percentage points of GDP in Guinea, 3.4 in Liberia, 3.3 in Sierra Leone
 - Long term impact could be even greater
- **Food shortages and potential food crisis**
 - Closure of border and sea crossings, reduction in regional trade, decline in foreign investment, farmers not able to work
 - 200,000 food insecure people due to Ebola, could reach more than 1 million
- **Other societal impacts: schools closed, quarantines, borders closed, stigma**

SOURCES: WHO Situation report - 12 November 2014,

http://apps.who.int/iris/bitstream/10665/141468/1/roadmapsitre_12Nov2014_eng.pdf?ua=1; Nature 514, 15–16, October 2014.

World Bank, The Economic Impact of the 2014 Ebola Epidemic: Short and Medium Term Estimates for Guinea, Liberia, and Sierra Leone, September 2014; World Food Program, Special Focus, Ebola, November 2014; NYT, Ebola Facts,

http://www.nytimes.com/interactive/2014/07/31/world/africa/ebola-virus-outbreak-qa.html?_r=0.

Ebola in the United States

- **10 people have or are being treated for Ebola in the U.S.**
 - **8 are cured**
 - **2 have died**
- **The 10 include:**
 - **4 who were diagnosed in the U.S.**
 - **2 were infected in the U.S. (2 nurses in Dallas, both cured)**
 - **2 were infected elsewhere (1 visitor who has died, 1 doctor, now cured)**
 - **6 others were diagnosed in West Africa and brought to the U.S. for treatment**
 - **5 cured; 1 just arrived for treatment on 11/15 but has died**

SOURCES: WHO Situation report - 12 November 2014,

http://apps.who.int/iris/bitstream/10665/141468/1/roadmapsitre_12Nov2014_eng.pdf?ua=1; CDC, Cases of Ebola Diagnosed in the United States, <http://www.cdc.gov/vhf/ebola/outbreaks/2014-west-africa/united-states-imported-case.html>; NYT, Ebola Facts,

http://www.nytimes.com/interactive/2014/07/31/world/africa/ebola-virus-outbreak-qa.html?_r=0; NYT,

<http://www.nytimes.com/2014/11/16/us/martin-salia-taken-to-nebraska-medical-center-for-ebola-treatment.html>.

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Thank You!

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