

# WHAT Ebola?

Ebola Virus Disease, formerly known as Ebola Haemorrhagic Fever, is a highly acute, severe, and lethal disease that can affect humans, chimpanzees, and gorillas. It was discovered in 1976 in the Democratic Republic of Congo and is a *Filovirus*, a kind of RNA virus that is 50-100 times smaller than bacteria.

• The initial symptoms of Ebola can include a sudden fever, intense weakness, muscle pain and a sore throat, according to the World Health Organization (WHO). Subsequent stages include vomiting, diarrhoea and, in some cases, both internal and external bleeding.

• Though it is believed to be carried in bat populations, the natural reservoir of Ebola is unknown. A reservoir is the long-term host of a disease, and these hosts often do not contract the disease or do not die from it.

The virus is transmitted to people from wild animals through the consumption and handling
of wild meats, also known as bushmeat, and spreads in the human population via
human-to-human transmission through contact with bodily fluids.

The average Ebola case fatality rate is around 50%, though case fatality rates have varied from 25% to 90%. As of 2016, Ebola has in total infected ca. 30,000 people in more than 20 outbreaks, that have occurred across the tropical belt of Africa, and has killed almost 15,000 people.

The likelihood that these viruses will continue to emerge unpredictably in tropical Africa highlights the necessity to protect apes from the severe impact of Ebola and to reduce human contact to infected wildlife sources in order to save human lives.



#### **Impacts on Great Apes**

Great apes are so similar to humans that diseases that can impact one species can also impact the other. Ebola is no different, as chimpanzee and gorilla populations have shown.

Ebola outbreaks in Gabon and Republic of Congo in the mid-1990s killed more than 90 percent of gorillas and chimpanzees in some areas, and additional outbreaks in these countries from 2000-2005 killed thousands of great apes. A smaller outbreak in chimpanzees also occurred in Côte d'Ivoire in 1994.



#### The Role of Bushmeat

Although not all human Ebola outbreaks can be linked to deaths in great apes, it is clear that contact with great ape bushmeat is a major risk factor for exposure to Ebola.

This epidemiologically and laboratory-confirmed transmission pathway is a reminder that hunting animals that could be infected can increase the risk of human outbreaks, through eating, scavenging, or butchering.



### **Great Apes as Predictors**

The results from the GRASP report indicate that mapping great apes already exposed to Ebola could help to predict future outbreaks in human populations.

Public health officials could benefit from the lead time in their preparations for possible human exposure. The Great Apes Survival Partnership (GRASP) has worked closely with its scientific community to utilize this intrinsic epidemiological connection.

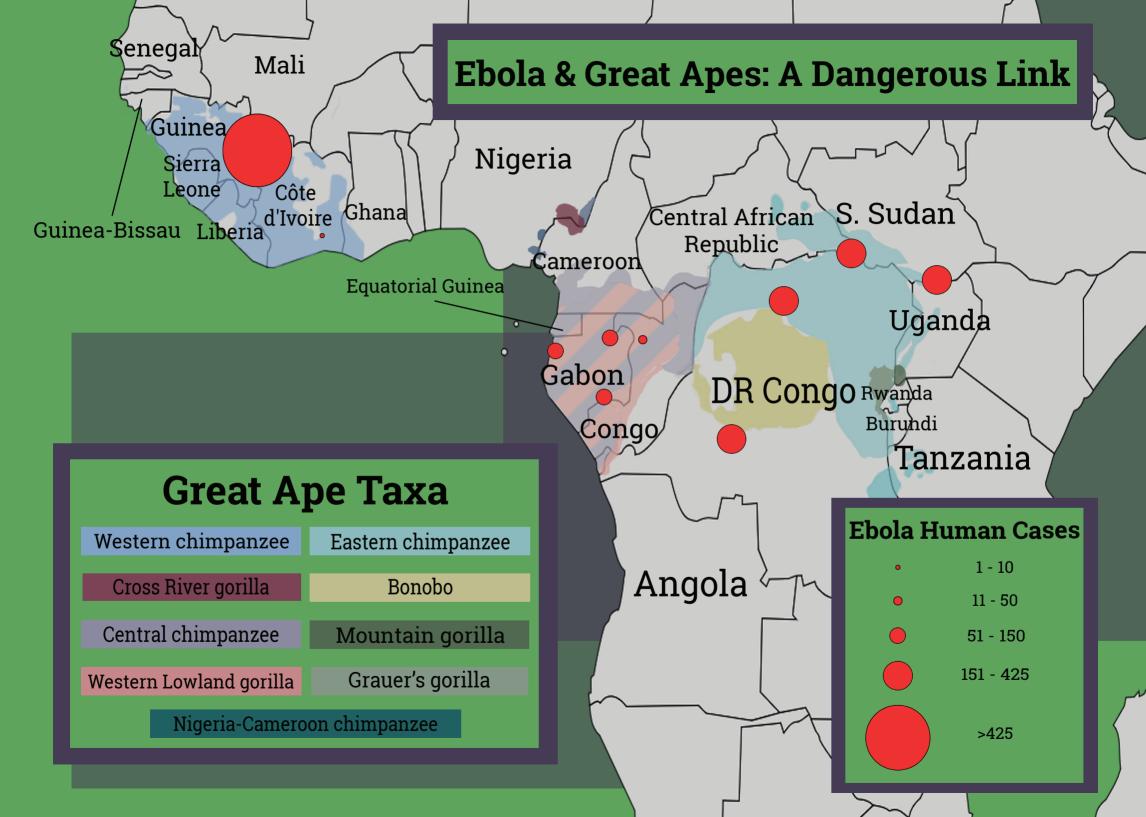


#### The Next Ebola

Ebola is just one of many diseases that has crossed between the great apes and humans. As development pushes human populations deeper in the forests, more diseases are likely to emerge.

It becomes important to increase awareness of the great apes and to preserve their habitats even in the wake of human population expansion. Community health is also a cornerstone of conservation in biodiversity hotspots.







# **Ebola & Great Apes: The Numbers**



• Gabon and Congo, areas that are very vulnerable to Ebola outbreaks, host 80% of world's gorilla population.

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