

Ebola virus has wiped out a third of the population of chimps and gorillas

January 21 2015, by Meera Inglis



Ebola has wiped out a third of the world's gorillas. Credit: David d'O, CC BY-NC-SA

There is a side to the Ebola crisis that, perhaps understandably, has received little media attention: the threat it poses to our nearest cousins, the great apes of Africa. At this moment in time Ebola is the single greatest threat to the survival of gorillas and chimpanzees.

The [virus](#) is even more deadly for other great apes as it is for humans, with [mortality rates](#) approximately 95% for [gorillas](#) and 77% for chimpanzees (*Pan troglodytes*). [Current estimates](#) suggest a third of the world's gorillas and [chimpanzees](#) have died from Ebola since the 1990s.

As with humans, these deaths tend to come in epidemics. In 1995, [an outbreak](#) is reported to have killed more than 90% of the gorillas in Minkébé Park in northern Gabon. In 2002-2003 a single outbreak of ZEBOV (the Zaire strain of Ebola) in the Democratic Republic of Congo killed an estimated [5,000 Western gorillas](#) (*Gorilla gorilla*). It's hard to accurately count such elusive creatures but the WWF estimates there are [up to 100,000](#) left in the wild – so a single Ebola outbreak wiped out a considerable chunk of the world's gorilla population.

There are of course additional factors behind the declining numbers of Africa's great apes: illegal trading in wildlife and bushmeat, war, deforestation and other infectious diseases. The world's remaining wild apes are being increasingly forced into isolated pockets of forest, which impedes their ability to forage, breed and to hide from hunters. There is also a growing body of evidence linking deforestation and subsequent [changes in climate](#) to the spread of Ebola and other [infectious diseases](#).



The ranges of the remaining wild ape populations in Africa. Credit: ICUN/Riccardo Pravettoni, GRID-Arendal

Back in 2003 an [article on the decline of great apes](#), written by a team led by primatologist Peter Walsh, predicted that:

Without aggressive investments in law enforcement, protected area management and Ebola prevention, the next decade will see our closest relatives pushed to the brink of extinction.

Sadly, this prediction appears to have come true. Since 2008, [the IUCN](#) has listed the Eastern Gorilla (*Gorilla beringei*) as endangered and the Western Gorillas as critically endangered. If we do not act fast, these

may prove to be the last decades in which apes can continue to live in their natural habitat. Unfortunately, there appears to be a lack of political will to implement policies which would bring viable solutions into effect.

We need both short-term solutions to halting the spread of Ebola and long-term ones to prevent future outbreaks. As a short-term strategy, vaccination could prove enormously useful in tackling the Ebola crisis in apes. Unlike for humans, [a vaccine](#) for gorillas and apes has been developed which thus far has been proven both safe and effective.

To date though, these trials have not involved "challenging" the vaccinated chimps with the live virus. Across much of Europe, medical research on great apes is either banned or highly restricted because of their cognitive similarity to humans. The question is whether or not we should make an exception in this case.

In the long term, conservation efforts aimed at restoring forest habitat could also help curb the spread of the virus, as larger forested areas would reduce the chances of infected animals coming into contact with one another. In tandem with forest regeneration, greater protection for apes from hunters and strict laws to control bushmeat consumption would also be hugely beneficial, both for apes and for humans.

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