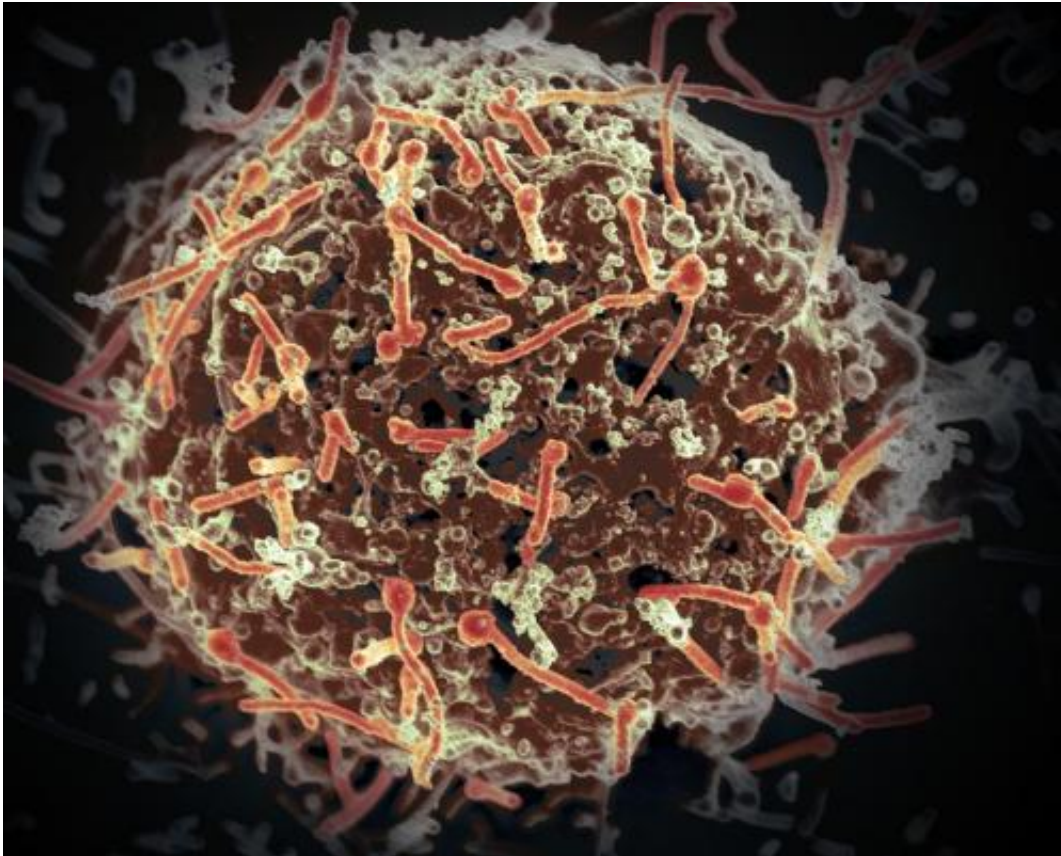


## Does 'reactivated' Ebola pose a threat?

October 14 2015

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The Ebola virus, isolated in November 2014 from patient blood samples obtained in Mali. The virus was isolated on Vero cells in a BSL-4 suite at Rocky Mountain Laboratories. Credit: NIAID

The Ebola virus can linger in survivors for many months, as in the case of British nurse Pauline Cafferkey, who has had a serious relapse almost a year after she first fell ill.

Q: Is it common for the [virus](#) to survive so long in a human?

Ed Wright, University of Westminster virus expert:

- "There is a growing body of evidence to suggest the virus can persist in certain bodily fluids... ([breast milk](#), semen, eye fluid) for up to six months following infection without the person showing the characteristic symptoms."

Q: What about virus "reactivation"?

Ben Neuman, virology expert at the University of Reading:

doctor Ian Crozier, in whose eye doctors found Ebola virus months after he was discharged from a hospital in Atlanta where he had been treated for the disease he contracted in west Africa.

Nathalie MacDermott, infectious diseases expert from Imperial College London:

- There may be similar cases in west Africa "but it has not been possible to test them yet."

Q: Is there a risk of these long-term carriers transmitting the virus?

Jonathan Ball, professor of molecular virology at the University of Nottingham:

- "There is little, if any, evidence that the virus can transmit once these major (initial) symptoms (bleeding, fever, diarrhoea, vomiting) have disappeared."

- "There have been reports of possible sexual transmission... but these

have not been proven conclusively."

- "Whilst we don't know her (Cafferkey's) specific symptoms we have been reassured that before she was admitted... she wasn't exhibiting any that we'd associate with a transmission risk to others, so contact monitoring and vaccination is a precautionary measure."

MacDermott:

- "There is no conclusive evidence of consistent transmission of virus from survivors."

- "There have also been reports of transmission to infants through breast milk of asymptomatic mothers and also in utero (to the foetus in the womb)... At the moment this is all anecdotal."

Wright:

- "Given the restricted locations where the virus has been found and the low amounts within these fluids (breast milk, semen and eye fluid), people who may harbour the virus once (they've) recovered pose negligible risk to the general public as the virus could only be transmitted by close, intimate contact."

- "The level of virus found in these fluids is several orders of magnitude lower than that found during the initial, acute phase of infection."

Q: What has Cafferkey's relapse revealed about what we do NOT know?

Ball:

- "This is frankly staggering. I am not aware from the scientific literature of a case where Ebola has been associated with what we can only assume

as life-threatening complications after someone has initially recovered, and certainly not so many months after."

MacDermott:

- "This is an unprecedented situation in medical terms."

Derek Gatherer, a virus expert from Lancaster University:

- "It is now clear that we still have a lot to learn about Ebola's long-term effects."

Comments via the Science Media Centre in London.

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