

Early study results suggest 2 Ebola treatments saving lives

12 August 2019, by Lauran Neergaard



In this July 13, 2019 file photo, health workers wearing protective gear check on a patient isolated in a plastic cube at an Ebola treatment center in Beni, Congo. Health authorities in Congo have halted an Ebola treatment study early with good news: Two of the four experimental drugs seem to be saving lives. More than 1,800 people have died in the African country's yearlong outbreak. (AP Photo/Jerome Delay, File)

Two of four experimental Ebola drugs being tested in Congo seem to be saving lives, international health authorities announced Monday.

The preliminary findings prompted an early halt to a major study on the drugs and a decision to prioritize their use in the African country, where a yearlong outbreak has killed more than 1,800 people.

The early results mark "some very good news," said Dr. Anthony Fauci of the U.S. National Institutes of Health, which helped fund the study. With these drugs, "we may be able to improve the survival of people with Ebola."

The two drugs—one developed by Regeneron Pharmaceuticals and the other by NIH

researchers—are antibodies that work by blocking the virus.

While research shows there is an effective albeit experimental vaccine against Ebola—one now being used in Congo—no studies have signaled which of several potential treatments were best to try once people became sick. During the West Africa Ebola epidemic several years ago, studies showed a hint that another antibody mixture named ZMapp worked, but not clear proof.

So with the current outbreak in Congo, researchers compared ZMapp to three other drugs—Regeneron's compound, the NIH's called mAb114 and an antiviral drug named remdesivir.

On Friday, independent study monitors reviewed how the first several hundred patients in the Congo study were faring—and found enough difference to call an early halt to the trial. The panel determined that the Regeneron compound clearly was working better than the rest, and the NIH antibody wasn't far behind, Fauci explained. Next, researchers will do further study to nail down how well those two compounds work.

The data is preliminary, Fauci stressed. But in the study, significantly fewer people died among those given the Regeneron drug or the NIH's—about 30% compared to half who received ZMapp. More striking, when patients sought care early—before too much virus was in their bloodstream—mortality was just 6% with the Regeneron drug and 11% with the NIH compound, compared to about 24% for ZMapp, he said.

Among people who receive no care in the current outbreak, about three-fourths die, said Dr. Michael Ryan of the World Health Organization. All of Congo's Ebola treatment units have access to the two drugs, he added, saying he was hopeful that the news would persuade more patients to seek care—as soon as symptoms appear.

Tackling Congo's outbreak has been complicated both by conflict in the region and because many people don't believe Ebola is real and choose to stay at home when they're sick, which spurs spread of the virus.

"Getting people into care more quickly is absolutely vital," Ryan said. "The fact that we have very clear evidence now on the effectiveness of the drugs, we need to get that message out to communities."

Fauci said Regeneron and Ridgeback Biotherapeutics, which has licensed the NIH compound, told authorities enough doses are readily available.

One issue researchers will have to analyze: Occasionally people who receive the Ebola vaccine still become sick, including some in the treatment study, which raises the question of whether their earlier protection inflated the drugs' survival numbers.

© 2019 The Associated Press. All rights reserved.

APA citation: Early study results suggest 2 Ebola treatments saving lives (2019, August 12) retrieved 14 April 2021 from <https://medicalxpress.com/news/2019-08-early-results-ebola-drugs.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.