CHICAGO

THE worst Ebola outbreak in history is heaping new pressure on U.S. regulators to speed the development of treatments for the deadly virus, which has killed more than 700 people since February.

Earlier this month, the agency put a hold on a Tekmira The U.S. Food and Drug Pharmaceuticals Corp clinical trial Administration on Friday said in of TKM-Ebola, one of the few an emailed statement the agency "stands ready" to work with Ebola treatments advanced enough to be tested in people. companies and investigators

The hold prompted a North working with patients "in dire need of treatment." Carolina physician with family A senior official within FDA members in West Africa to say told Reuters the agency would enough.

"This should be the last Ebola consider proposals for providing epidemic without a cure," said Dr. under special treatments Ahmed Tejan-Sie, an internist from emergency new drug applications, Burlington. Tejan-Sie started a if the benefits of the treatment petition on Change.org to urge outweighed the potential safety FDA to lift its hold on the drug. It risks. now has 15,000 signatures. "We take this very, very

FDA's statement follow calls by

doctors fed up by the lack of

progress on Ebola treatments, a

market deemed too small to gain

much attention by large

pharmaceutical companies.

seriously," the source said. Shares of Tekmira rose sharply on Friday on news that the Ebola outbreak in West Africa has intensified, as investors expect the drug trial will be considered again by regulators.

"I'm not advocating that they take it out of the lab and start using it in West Africa. What I'm advocating is that the trials be accelerated," said Tejan-Sie, who spent much of his childhood in Ebola-ravaged Sierra Leone.

The director of the global charity Wellcome Trust last month took it a step further, arguing in favor of offering experimental treatments to people at high risk of dying from Ebola, saying the normal drug development process takes too long and should not apply in rapidly spreading outbreaks of diseases.

Giving experimental drugs to

people in an epidemic is not without precedent. "Usually when this happens, there are drugs that are further along in development," said Dr. Amesh Adalja, an infectious disease expert at the University of Pittsburgh Medical

In the 2009 H1N1 flu pandemic, BioCryst example, Pharmaceuticals' experimental antiviral drug peramivir was made available through emergency use authorization. But that drug had been tested in widely in people by that time.

Center.

"With Ebola drugs, there hasn't been much work with them outside of animal models," Adalja said. "That makes it very hard to safely say we should use this in a compassionate use situation, although there is definitely a case to be made in these large

outbreaks."

Tekmira's drug has only been tested in a few dozen healthy people. The FDA stopped its study in July because of safety concerns among people taking the highest doses of the drug who experienced problematic immune responses.

The hold means that particular study cannot proceed, but it does not prevent the company from submitting a new study proposal, say in people already infected with Ebola, for whom any safety risks from the treatment would be

mitigated by the risk of dying. In that case, "the benefit-risk ratio changes completely," the FDA source said. "Anything that would shift the risk-benefit to a more favorable outcome could potentially allow the authorization of that study."

What is not clear is whether

possible Ebola treatments would choose to test their drugs in patients infected with Ebola, particularly in the midst of a raging epidemic in which emotions and expectations run high.

Tekmira or any developers of

Tekmira officials did not return calls or emails on Friday seeking comment. In a July 21 press release, the company said it is "mindful of the need for this important therapeutic in situations such as the ongoing Ebola outbreak in West Africa.

"TKM-Ebola is currently an unapproved agent and the regulatory framework to support its use in Africa has not been established at this time," the

company added. Dr. Thomas Geisbert of the University of Texas Medical Branch has done animal studies on

the Tekmira drug and said there are few companies willing to develop Ebola treatments. There is "little financial incentive," given the small market potential for a drug that treats a rare disease afflicting developing countries, he said.

Geisbert said the drug "works great in monkeys in the lab," but that is largely because it is given relatively early in the course of

infection.

"What if you start giving it to people who are almost dead and they die, but it's not the drug's fault? Then you blame the drug."

Geisbert said given the widespread mistrust of doctors in West Africa, which has driven dozens of victims to evade treatment, such an event could jeopardize the drug's prospects.

"It's a very delicate situation,"

he said.