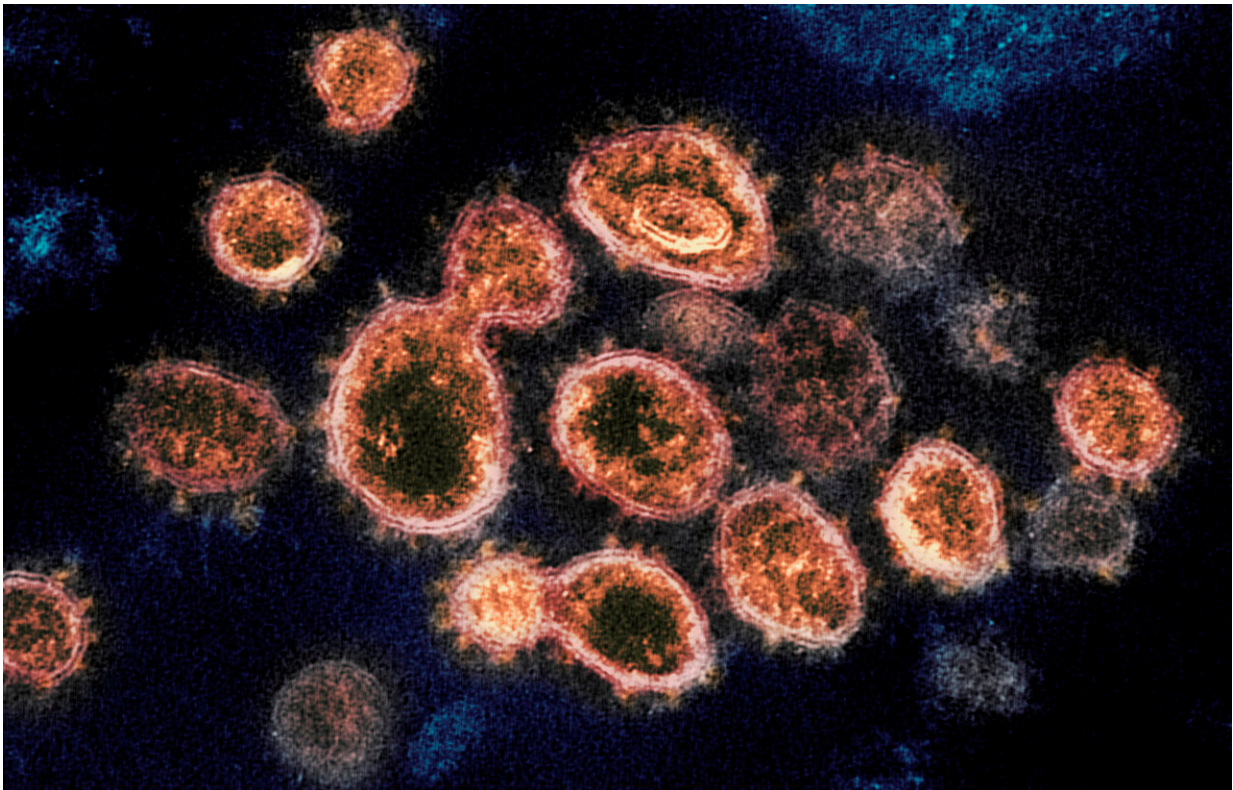


Pfizer says COVID-19 pill cut hospital, death risk by 90%

November 6 2021, by Matthew Perrone



This 2020 electron microscope image provided by the National Institute of Allergy and Infectious Diseases - Rocky Mountain Laboratories shows SARS-CoV-2 virus particles which cause COVID-19, isolated from a patient in the U.S., emerging from the surface of cells cultured in a lab. Pfizer says its experimental pill for COVID-19 cut rates of hospitalization and death by nearly 90% among patients with mild-to-moderate infections. The company announced Friday, Nov. 5, 2021 it will soon ask the U.S. Food and Drug Administration and international regulators to authorize its pill, which is taken twice a day for five days. Credit: NIAID-RML via AP

Pfizer Inc. said Friday that its experimental antiviral pill for COVID-19 cut rates of hospitalization and death by nearly 90% in high-risk adults, as the drugmaker joined the race for an easy-to-use medication to treat the coronavirus.

Currently most COVID-19 treatments require an IV or injection. Competitor Merck's COVID-19 pill is already under review at the Food and Drug Administration after showing strong initial results, and on Thursday the United Kingdom became the first country to OK it.

Pfizer said it will ask the FDA and international regulators to authorize its pill as soon as possible, after independent experts recommended halting the company's study based on the strength of its results. Once Pfizer applies, the FDA could make a decision within weeks or months.

Since the beginning of the pandemic last year, researchers worldwide have been racing to find a pill to treat COVID-19 that can be taken at home to ease symptoms, speed recovery and keep people out of the hospital.

Having pills to treat early COVID-19 "would be a very important advance," said Dr. John Mellors, chief of infectious diseases at the University of Pittsburgh, who was not involved in the Pfizer study.

"If someone developed symptoms and tested positive we could call in a prescription to the local pharmacy as we do for many, many infectious diseases," he said.

On Friday, Pfizer released preliminary results of its study of 775 adults. Patients who received the company's [drug](#) along with another antiviral shortly after showing COVID-19 symptoms had an 89% reduction in

their combined rate of hospitalization or death after a month, compared to patients taking a dummy pill. Fewer than 1% of patients taking the drug needed to be hospitalized and no one died. In the comparison group, 7% were hospitalized and there were seven deaths.

"We were hoping that we had something extraordinary, but it's rare that you see great drugs come through with almost 90% efficacy and 100% protection for death," said Dr. Mikael Dolsten, Pfizer's chief scientific officer, in an interview.

Study participants were unvaccinated, with mild-to-moderate COVID-19, and were considered high risk for hospitalization due to [health problems](#) like obesity, diabetes or heart disease. Treatment began within three to five days of initial symptoms, and lasted for five days. Patients who received the drug earlier showed slightly better results, underscoring the need for speedy testing and treatment.



This Feb. 5, 2021, file photo shows the Pfizer logo displayed at the company's headquarters in New York. Pfizer says its experimental pill for COVID-19 cut rates of hospitalization and death by nearly 90% among patients with mild-to-moderate infections. The company announced Friday, Nov. 5, it will soon ask the U.S. Food and Drug Administration and international regulators to authorize its pill, which is taken twice a day for five days. Credit: AP Photo/Mark Lennihan, File

Pfizer reported few details on side effects but said rates of problems were similar between the groups at about 20%.

An independent group of medical experts monitoring the trial recommended stopping it early, standard procedure when interim results show such a clear benefit. The data have not yet been published for

outside review, the normal process for vetting new medical research.

Top U.S. health officials continue to stress that vaccination will remain the best way to protect against infection. But with tens of millions of adults still unvaccinated—and many more globally—effective, easy-to-use treatments will be critical to curbing future waves of infections.

The FDA has set a public meeting later this month to review Merck's pill, known as molnupiravir. The company reported in September that its drug cut rates of hospitalization and death by 50%. Experts warned against comparing preliminary results because of differences in the studies, including where they were conducted and what types of variants were circulating.

"It's too early to say who won the hundred meter dash," Mellors said. "There's a big difference between 50% and 90% but we need to make sure the populations were comparable."

Although Merck's pill is further along in the U.S. regulatory process, Pfizer's drug could benefit from a safety profile that is more familiar to regulators with fewer red flags. While [pregnant women](#) were excluded from the Merck trial due to a potential risk of birth defects, Pfizer's drug did not have any similar restrictions. The Merck drug works by interfering with the coronavirus' genetic code, a novel approach to disrupting the virus.

Pfizer's drug is part of a decades-old family of antiviral drugs known as protease inhibitors, which revolutionized the treatment of HIV and hepatitis C. The drugs block a key enzyme which viruses need to multiply in the human body.

The drug was first identified during the SARS outbreak originating in Asia during 2003. Last year, company researchers decided to revive the

medication and study it for COVID-19, given the similarities between the two coronaviruses.

The U.S. has approved one other antiviral drug for COVID-19, remdesivir, and authorized three antibody therapies that help the immune system fight the virus. But they have to be given by IV or injection at hospitals or clinics, and limited supplies were strained by the last surge of the delta variant.

Shares in New York-based Pfizer Inc. gained 11% to close at \$48.61 on Friday.

© 2021 The Associated Press. All rights reserved. This material may not be published, broadcast, rewritten or redistributed without permission.

Citation: Pfizer says COVID-19 pill cut hospital, death risk by 90% (2021, November 6)
retrieved 26 April 2024 from
<https://medicalxpress.com/news/2021-11-pfizer-covid-pill-hospital-death.html>

<p>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.</p>
--