

## Studies show power of Pfizer vaccine starts to wane after two months

October 7 2021

---



(HealthDay)—Two new studies confirm that the immunity offered by

two doses of Pfizer's coronavirus vaccine drops off after about two months, although protection against severe disease, hospitalization and death holds strong.

The reports, from Israel and Qatar, add to evidence that suggests even fully vaccinated people need to continue to guard against COVID-19 infection.

In one [study](#), Israeli researchers found that antibody levels among 4,800 [health care workers](#) fell rapidly within months after two doses of the Pfizer [vaccine](#), "especially among men, among persons 65 years of age or older, and among persons with immunosuppression."

That study also found that that immunity lasts longer in people who are vaccinated after natural COVID-19 infection.

In the other [study](#) of Pfizer's vaccine, researchers in Qatar found that "protection against infection builds rapidly after the first dose, peaks in the first month after the second dose, and then gradually wanes in subsequent months," Laith Abu-Raddad, of Weill Cornell Medicine-Qatar, and colleagues wrote.

"The waning appears to accelerate after the fourth month, to reach a low level of approximately 20% in subsequent months," they added.

However, the researchers also found that protection against hospitalization and death remained above 90%.

The vaccine's weakening protection may be due to people's behavior, the study authors noted.

"Vaccinated persons presumably have a higher rate of social contact than unvaccinated persons and may also have lower adherence to safety

measures," they wrote. "This behavior could reduce real-world effectiveness of the vaccine as compared with its biologic effectiveness, possibly explaining the waning of protection."

The studies were published Wednesday in the *New England Journal of Medicine*.

Pfizer has been saying that immunity from the first two doses of its vaccine begins to wear off after a few months, *CNN* reported. Last month, the U.S. Food and Drug Administration approved emergency use of booster doses of Pfizer's vaccine six months after high-risk people finish their first two doses.

Meanwhile, the U.S. Centers for Disease Control and Prevention has recommended booster shots for people over 65, people with medical conditions that raise their risk of severe COVID-19, and people at high risk of coronavirus infection because of their jobs.

In the United States, more than 6 million people have already received a third dose of vaccine. On average, the CDC says, the pace of booster shots is now higher than the rate of people getting vaccinated for the first time, *CNN* reported.

**More information:** Visit the U.S. Food and Drug Administration for more on [COVID vaccines](#).

Copyright © 2021 [HealthDay](#). All rights reserved.

Citation: Studies show power of Pfizer vaccine starts to wane after two months (2021, October 7) retrieved 25 April 2024 from <https://medicalxpress.com/news/2021-10-power-pfizer-vaccine-wane-months.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.