

# Updated COVID-19 vaccine has effectiveness of 54 percent, according to new research

February 7 2024, by Elana Gotkine

---



Updated monovalent COVID-19 vaccines offer vaccine effectiveness (VE) of 54 percent against symptomatic severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) infection, according to [research](#) published in the Feb. 1 issue of the U.S. Centers for Disease Control and Prevention *Morbidity and Mortality Weekly Report*.

Ruth Link-Gelles, Ph.D., from the CDC in Atlanta, and colleagues analyzed data from the Increasing Community Access to Testing SARS-CoV-2 pharmacy testing program to estimate updated 2023 to 2024 COVID-19 VE against symptomatic SARS-CoV-2 infection with a monovalent XBB.1.5-derived vaccine.

The researchers found that overall VE among adults aged 18 years and older was 54 percent at a median of 52 days after vaccination among 9,222 total eligible tests. VE at 60 to 119 days after vaccination was 49 percent among tests exhibiting spike gene target failure (SGTF) and 60 percent among tests without SGTF in a total of 2,199 tests performed at a laboratory with SGTF testing.

"Vaccination provided protection for infections caused by JN.1 and infections caused by XBB-related lineages. Waning of effectiveness is expected with additional elapsed time since vaccination, especially against less severe disease," the authors write. "All persons aged  $\geq 6$  months should stay up to date with COVID-19 vaccination, including receiving a dose of updated vaccine."

**More information:** Ruth Link-Gelles et al, Early Estimates of Updated 2023–2024 (Monovalent XBB.1.5) COVID-19 Vaccine Effectiveness Against Symptomatic SARS-CoV-2 Infection Attributable to Co-Circulating Omicron Variants Among Immunocompetent Adults—Increasing Community Access to Testing Program, United States, September 2023–January 2024, *MMWR. Morbidity and Mortality Weekly Report* (2024). [DOI: 10.15585/mmwr.mm7304a2](https://doi.org/10.15585/mmwr.mm7304a2)

Copyright © 2024 [HealthDay](https://www.healthday.com). All rights reserved.

Citation: Updated COVID-19 vaccine has effectiveness of 54 percent, according to new research (2024, February 7) retrieved 21 May 2024 from <https://medicalxpress.com/news/2024-02-covid->

[vaccine-effectiveness-percent.html](https://www.medicalxpress.com/vaccine-effectiveness-percent.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.