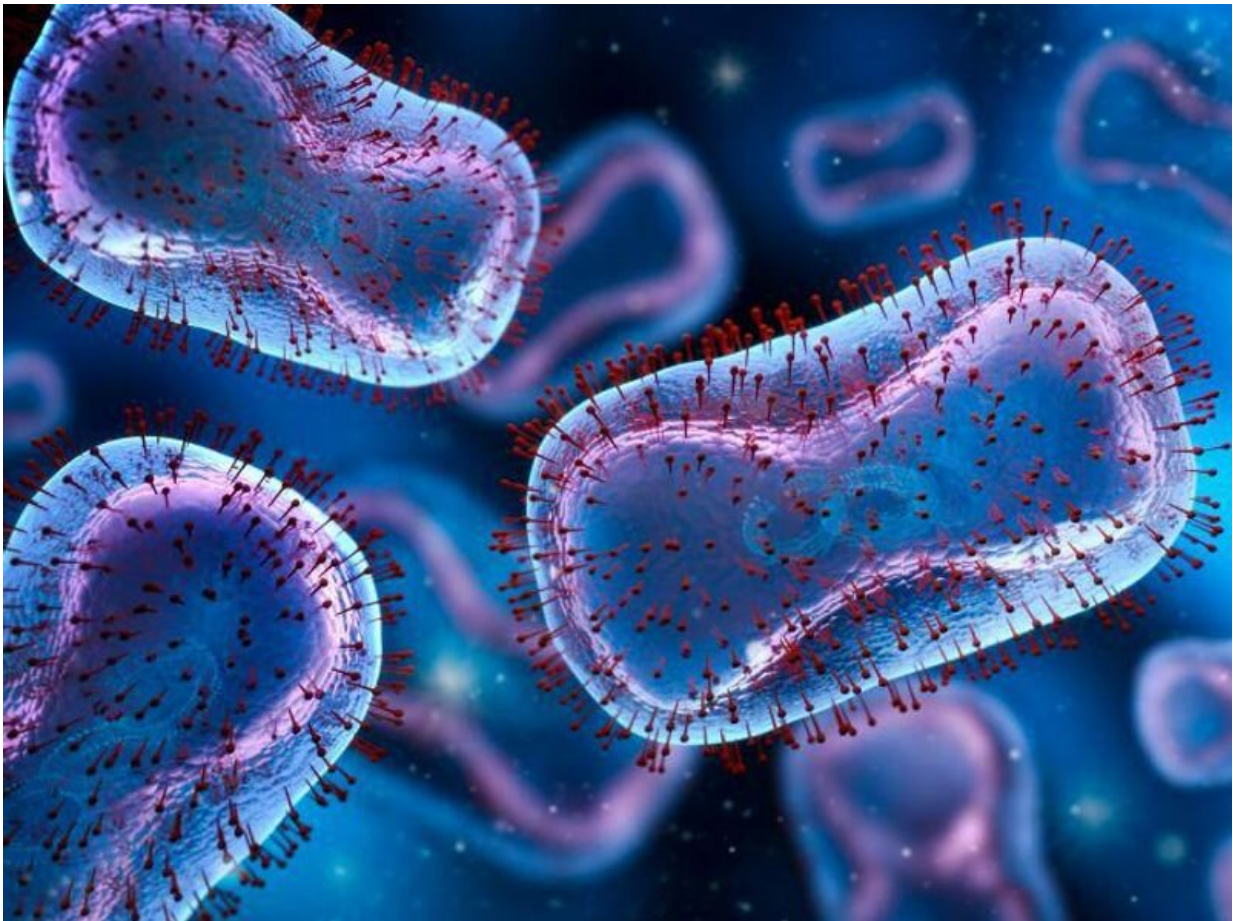


# Infections reported after single dose of monkeypox vaccine

October 4 2022

---



Most cases of monkeypox that occur after vaccination with the modified

Vaccinia Ankara-Bavarian Nordic vaccine (MVA-BN) occur within 14 days of receipt of the first dose, according to a research letter published online Sept. 30 in the *Journal of the American Medical Association*.

Aniruddha Hazra, M.D., from Howard Brown Health in Chicago, and colleagues describe [monkeypox](#) infections after a single dose of MVA-BN at a monkeypox testing and vaccination site. Howard Brown Health started performing real-time reverse transcriptase-polymerase chain reaction tests to detect monkeypox in May 2022; MVA-BN was administered to eligible individuals on June 28, 2022. Patients who tested positive for monkeypox after vaccination and through Sept. 9, 2022, were included.

The researchers found that 400 patients tested positive for monkeypox during the study period, and 7,339 individuals received their first dose of MVA-BN. Overall, 90 patients tested positive for monkeypox one day or more after vaccination: 37 and 32 cases occurred at one to seven and eight to 14 days after vaccination, respectively (77 percent of all cases). There was a median of 8.5 days between vaccination and infection. Overall, 36.2 percent of the cases occurring one to 14 days after vaccination were in people with HIV, 96 percent of whom were virologically suppressed. Of the early postvaccination cases without HIV infection, 54 percent were using preexposure prophylaxis. Eight monkeypox cases occurred more than 28 days after the first dose of MVA-BN; 50 percent of the patients had HIV and were virally suppressed.

"These data support [public health](#) messaging around [behavior modification](#) and risk reduction counseling in the immediate postvaccination period," the authors write.

**More information:** Aniruddha Hazra et al, Human Monkeypox Virus Infection in the Immediate Period After Receiving Modified Vaccinia

Ankara Vaccine, *JAMA* (2022). [DOI: 10.1001/jama.2022.18320](https://doi.org/10.1001/jama.2022.18320)

Copyright © 2022 [HealthDay](#). All rights reserved.

Citation: Infections reported after single dose of monkeypox vaccine (2022, October 4) retrieved 6 May 2024 from

<https://medicalxpress.com/news/2022-10-infections-dose-monkeypox-vaccine.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.