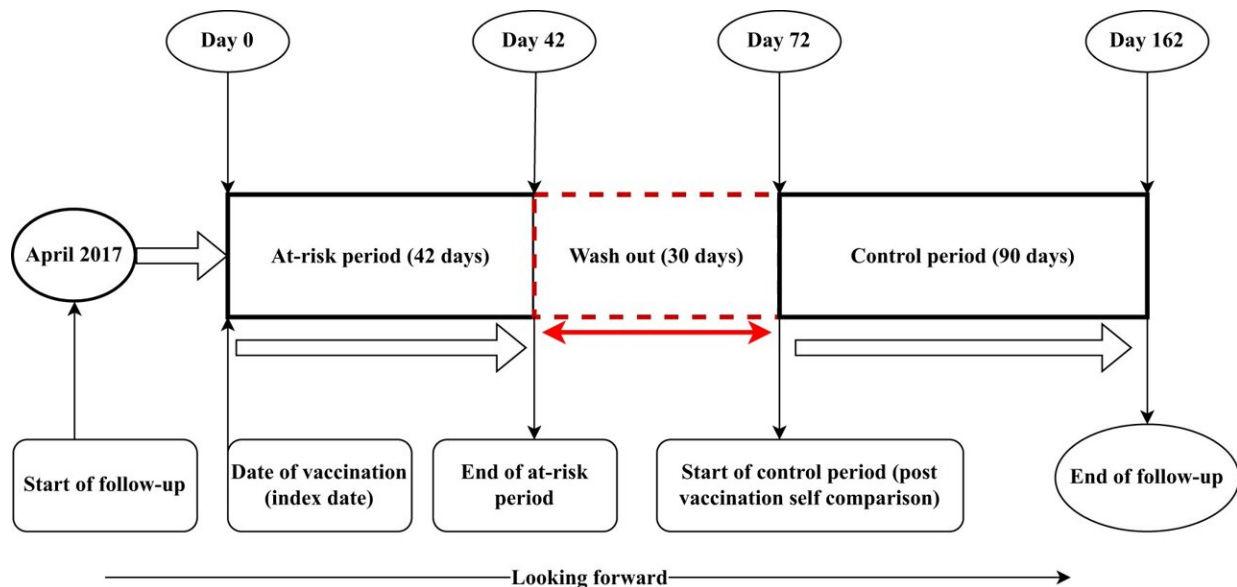


Shingles vaccine reduces risk of stroke and heart attack from virus, study suggests

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Self-controlled case series study design for the analysis of pre-specified serious adverse events following zoster vaccine live vaccination. Each vaccinated person served as their own control, hence eliminating the need for a separate control group. The follow-up period was divided into the at-risk and control (postvaccination comparison or baseline) periods. We introduced a washout period of 30 days to eliminate the carryover effects hence the outcomes during the control period were not influenced by the previous exposure (vaccination). Credit: *Nature Communications* (2023). DOI: 10.1038/s41467-023-39595-y

Getting vaccinated against shingles could significantly reduce the risk of

suffering a stroke or heart attack from the virus, a new study published in the journal *Nature Communications* has found.

Shingles is caused by the same virus, varicella zoster, that causes chicken pox. People who get [chicken pox](#) can develop shingles later in life if the virus becomes active again.

"Shingles results in a painful skin rash, but we also know there's an increased risk of having a [stroke](#) or heart attack in the first month after the virus is reactivated," said James Mbinta, the study's lead author and a Ph.D. candidate in the School of Health at Te Herenga Waka—Victoria University of Wellington.

The risk of stroke is two to three times higher if the virus reoccurs in the ophthalmic nerve—a sensory nerve in the face.

"The results of our study suggest the shingles [vaccine](#) offers a large protective effect against both stroke and heart attack in the first 42 days after vaccination," Mbinta said.

In the study, researchers compared the number of people hospitalized in the first 42 days after getting the shingles vaccine—the 'at-risk' period—with the number hospitalized between 72 and 162 days after vaccination. The latter time frame was used as the 'control' period, which provides a baseline for comparison.

"We found twice as many people (761) were hospitalized in the control period than in the first month following vaccination (321). These results suggest the vaccine may reduce the risk of stroke and [heart attack](#) by as much as 50 percent in the first 42 days," Mbinta said.

Results are based on analysis of data from 278,375 adults in New Zealand who got the vaccine between April 2018 and July 2021. Most

were aged 70 or older.

Co-author Professor Colin Simpson, an associate dean at the University's Faculty of Health, said the findings add to evidence showing vaccination reduces the chances by ending up in hospital as a result of the virus.

"The results are consistent with research in Australia that found a reduced risk of stroke after vaccination among adults aged 70 to 79," Professor Simpson said.

Previous research led by Mbinta found the shingles vaccine also significantly reduced the risk of being hospitalized with postherpetic neuralgia, a complication of the shingles [virus](#) that can cause debilitating pain.

About one in three people will get shingles during their lifetime. The likelihood increases with age. Half of those aged 85 or over are expected to get [shingles](#).

More information: James F. Mbinta et al, Herpes zoster vaccine safety in the Aotearoa New Zealand population: a self-controlled case series study, *Nature Communications* (2023). [DOI: 10.1038/s41467-023-39595-y](#)

Provided by Victoria University of Wellington

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