

Fourth dose of COVID vaccine may not be needed for most people... yet

February 25 2022, by Bob Yirka



Credit: Pixabay/CC0 Public Domain

A team of researchers working at Israel's Sheba Medical Center has found evidence that suggests a fourth COVID vaccination or second booster shot may not be necessary for most people because it does not

add significant protection. In their paper posted on the medRxiv preprint server, the team describes comparing people who were given a second booster shot with people who were not.

As the [pandemic](#) has progressed, [medical researchers](#) have worked hard to develop vaccines to keep people from getting sick and therapies to help those afflicted. As a result, vaccines were developed by several companies that proved to prevent serious infections. Booster shots of the same vaccines were then found to provide protection again months later as [immune response](#) to the vaccines waned. Since that time, many people have wondered if they will need another booster shot as protection from the first booster starts to wane. In this new effort, the researchers sought to find the answer.

It was not a coincidence that the researchers were working in Israel—it is one of the few countries that has not waited to find out if a fourth shot is needed. Officials there have begun making second boosters available to those who want them. To determine the efficacy of second booster shots, the researchers recruited 1,000 [healthcare workers](#) who were fully vaccinated and who had received a booster shot. Two-hundred seventy-four received a second booster; the rest served as a control group. The researchers then measured antibody levels for all of the subjects.

They found that while the second booster did increase protection slightly, it was not by enough to justify its use—at least at this time. They also found that the second booster did not activate T cells. They suggest their results should not frighten people, however; they believe that most people are still adequately protected from their first three shots. Still, they do suggest that [older people](#) and those at risk for other reasons get a second booster if they can. Though such people were not included in the study, the researchers assume that any increase in protection for people more at risk is reason to get the shot.

More information: Gili Regev-Yochay et al, 4th Dose COVID mRNA Vaccines' Immunogenicity & Efficacy Against Omicron VOC (2022).
[DOI: 10.1101/2022.02.15.22270948](https://doi.org/10.1101/2022.02.15.22270948)

© 2022 Science X Network

Provided by Science X Network

Citation: Fourth dose of COVID vaccine may not be needed for most people... yet (2022, February 25) retrieved 23 April 2024 from <https://medicalxpress.com/news/2022-02-fourth-dose-covid-vaccine-people.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.