

Annual two-dose SARS-CoV-2 vaccination campaign beneficial

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Annual administration of a second dose of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) vaccine five months after the

initial dose results in fewer hospitalizations and deaths, according to a study published in the *Annals of Internal Medicine*.

Chad R. Wells, Ph.D., from the Yale School of Public Health in New Haven, Connecticut, and colleagues examined the effectiveness of an annual SARS-CoV-2 vaccination campaign in an age-structured dynamic transmission model in the United States; the intervention included SARS-CoV-2 vaccination with an age-specific uptake similar to that of influenza vaccination.

The researchers found that in an annual vaccination campaign, the optimal timing between the first and second [vaccine](#) dose delivered to children younger than 2 years and adults aged 50 years and older was estimated to be five months. A second booster dose resulted in 123,869 fewer hospitalizations and 5,524 fewer deaths compared with a single-dose campaign, averting \$3.63 billion in costs over one year.

"Our study shows that adopting an annual vaccination campaign with the provision of a second dose to children younger than 2 years and adults aged 50 years or older can be a suitable approach to protect individuals against SARS-CoV-2 infection and associated outcomes," the authors write.

More information: Chad R. Wells et al, Evaluation of Strategies for Transitioning to Annual SARS-CoV-2 Vaccination Campaigns in the United States, *Annals of Internal Medicine* (2024). [DOI: 10.7326/M23-2451](#)

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