

50- μ g mRNA-1273 safe, effective for children aged 6 to 11 years

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Two 50- μ g doses of the mRNA-1273 vaccine are safe and effective for

children aged 6 to 11 years, according to a study published online May 11 in the *New England Journal of Medicine*.

C. Buddy Creech, M.D., M.P.H., from Vanderbilt University Medical Center in Nashville, Tennessee, and colleagues examined the [safety](#), immunogenicity, and efficacy of the mRNA-1273 vaccine in [children](#) aged 6 to 11 years. In part 1, 751 children received 50- or 100- μ g injections of the mRNA-1273 vaccine; based on the safety and immunogenicity results, 50 μ g was selected for part 2. In part 2, 4,016 children were randomly assigned to receive two injections of 50 μ g of mRNA-1273 or placebo in a 3:1 ratio, administered 28 days apart.

The researchers found that the dose level selected was associated with mainly low-grade, transient adverse events, most often injection-site pain, headache, and fatigue. As of the data cutoff, there were no reports of vaccine-related serious adverse events, multisystem inflammatory syndrome in children, myocarditis, or pericarditis. The neutralizing antibody titer in children who received mRNA-1273 at 50 μ g was 1,610 at one month after the second injection compared with 1,300 for [young adults](#) who received 100 μ g; in both [age groups](#), serologic responses occurred in at least 99.0 percent of participants. At a time when delta was the dominant circulating variant, the estimated vaccine efficacy was 88.0 percent against COVID-19 occurring 14 days or more after the first injection.

"The trial results indicate that a 50- μ g dose level of the mRNA-1273 vaccine had an acceptable safety profile and was efficacious in children 6 to 11 years of age," the authors write.

Several authors disclosed financial ties to [pharmaceutical companies](#), including Moderna.

More information: [Abstract/Full Text](#)

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