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Press Release

EMBARGOED UNTIL 12:01 A.M. ET TUESDAY, JUNE 6, 2023

COVID-19 vaccination: No serious side effects in young children

Kaiser Permanente researchers led analysis of large, diverse group of young children who received the mRNA vaccines.

OAKLAND, Calif. — A review of more than 245,000 doses of mRNA COVID-19 vaccines given to young children (most of them age 4 and younger) found no indications of serious side effects. The study, published June 6 in *Pediatrics*, was led by the Kaiser Permanente [Division of Research](#) in partnership with the Centers for Disease Control and Prevention.

The data came from the [Vaccine Safety Datalink](#), which collects patient medical information from 8 health systems (5 Kaiser Permanente regions along with Marshfield Clinic in Wisconsin, HealthPartners in Minneapolis, and Denver Health in Colorado). The researchers examined patient records from June 2022 to March 2023 for both the Pfizer and Moderna vaccines.

Importantly, there was no indication of the heart inflammation called myocarditis among the young vaccinated children, said lead author Kristin Goddard, MPH, research project manager with the Kaiser Permanente [Vaccine Study Center](#). “We haven’t seen any myocarditis or pericarditis in this youngest age group, which is very reassuring,” Goddard said.

Myocarditis has emerged as a rare side effect of COVID-19 vaccination, mostly among teenage or young adult men. Rates of myocarditis for children over 5 years old and young adults following COVID-19 vaccination in the Vaccine Safety Datalink have been [previously published](#).

The *Pediatrics* study marks the first analysis looking for serious side effects from the mRNA vaccines in young children. The study examined medical records for 23 serious potential side effects, including outcomes such as blood clots, seizures, stroke, and brain inflammation. Analyses showed no safety concern for any of the selected serious side effects. In particular, the study found no concern for seizures after vaccination, something occasionally seen following other routine childhood immunizations in children under 2 years old.

Meanwhile, the CDC [previously reported](#) on mild side effects from immunization, such as sore arms or brief fevers.

The analysis covered a large and diverse group of children. It included 135,005 doses of the Pfizer COVID-19 vaccine given to children age 6 months to 4 years and 112,006 doses of the Moderna COVID-19 vaccine given to children age 6 months to 5 years.



“Parents can be assured that this large study found no serious side effects from the mRNA vaccines,” said senior author [Nicola Klein](#), MD, PhD, director of the Kaiser Permanente Vaccine Study Center and research scientist with the Division of Research. “Parents can protect their young children from COVID-19 in the same way they vaccinate their children to protect from other serious childhood diseases.”

“Even as the COVID-19 emergency has ended, we know that the coronavirus poses a long-term, serious threat to all ages, including children,” Dr. Klein added. “Vaccinating children against COVID-19 benefits them by reducing the burden of illness, avoiding spreading the virus to family and others, and mitigating the small but real risk of serious illness.”

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Kaiser Permanente is committed to helping shape the future of health care. We are recognized as one of America’s leading health care providers and not-for-profit health plans. Founded in 1945, Kaiser Permanente has a mission to provide high-quality, affordable health care services and to improve the health of our members and the communities we serve. We currently serve 12.7 million members in 8 states and the District of Columbia. Care for members and patients is focused on their total health and guided by their personal Permanente Medical Group physicians, specialists, and team of caregivers. Our expert and caring medical teams are empowered and supported by industry-leading technology advances and tools for health promotion, disease prevention, state-of-the-art care delivery, and world-class chronic disease management. Kaiser Permanente is dedicated to care innovations, clinical research, health education, and the support of community health.