

# VACCINES: DECADES OF RESEARCH SUPPORTING SAFETY AND EFFECTIVENESS

**VACCINES ARE AMONG THE MOST EXTENSIVELY STUDIED MEDICAL PRODUCTS ON THE MARKET, WITH DECADES OF RESEARCH AND CONTINUED MONITORING TO ENSURE THEIR SAFETY AND EFFECTIVENESS.**

**Below is an overview of key findings and resources, including a curated list of some of the most significant studies confirming the safety of vaccines.**

1. Measles, Mumps, and Rubella (MMR) Vaccine and Autism
  - a. Study: "MMR Vaccination and Autism: A Nationwide Cohort Study" (Hviid et al., 2019)
  - b. Journal: Annals of Internal Medicine, <https://www.acpjournals.org/doi/10.7326/M18-2101>
  - c. Summary: A large-scale study of over 650,000 children in Denmark found no link between the MMR vaccine and autism.
2. Thimerosal and Neurodevelopmental Outcomes
  - a. Study: "Safety of Thimerosal-Containing Vaccines: A Two-Phased Study" (Verstraeten et al., 2003)
  - b. Journal: Pediatrics, <https://publications.aap.org/pediatrics/article-abstract/112/5/1039/28714/Safety-of-Thimerosal-Containing-Vaccines-A-Two>
  - c. Summary: No evidence of harm was found in children who received vaccines containing thimerosal, a mercury-based preservative removed from most childhood vaccines in the U.S. by 2001 as a precautionary measure.
3. HPV Vaccine and Long-Term Safety
  - a. Study: "Safety of the Human Papillomavirus Vaccine: A Systematic Review" (Arbyn et al., 2018)
  - b. Journal: Clinical Infectious Diseases
  - c. Summary: Analysis of over 100 studies confirmed the long-term safety and effectiveness of HPV vaccines in preventing cervical and other cancers.
4. Pediatric Vaccine Schedule
  - a. Study: "Safety of the Childhood Vaccine Schedule" (Institute of Medicine, 2013), <https://nap.nationalacademies.org/catalog/13563/the-childhood-immunization-schedule-and-safety-stakeholder-concerns-scientific-evidence>
  - b. Summary: A comprehensive review found no evidence to suggest that following the recommended vaccine schedule increases the risk of adverse effects.

**VACCINES ARE A VITAL TOOL TO PROTECT OUR COMMUNITIES FROM VACCINE PREVENTABLE DISEASES AND THEIR ASSOCIATED RISKS.**

#### Additional Resources:

Vaccinate Your Family. Vaccine Studies. Accessed September 8, 2025. <https://vaccinateyourfamily.org/questions-about-vaccines/vaccine-research/>  
American Academy of Pediatrics. Vaccine Safety: Examine the Evidence. Accessed September 8, 2025. <https://www.healthychildren.org/English/safety-prevention/immunizations/Pages/vaccine-studies-examine-the-evidence.aspx>  
Children's Hospital of Philadelphia. Vaccine Safety. Accessed September 8, 2025. <https://www.chop.edu/vaccine-education-center/vaccine-safety/vaccine-safety-references>