

Vaccine Questions?

www.vaccine.chop.edu

The Vaccine Education Center at The Children's Hospital of Philadelphia: Here to Help with Your Vaccine Questions!

Q. Do children today receive too many vaccines?


A. No. Here's why:

An **antigen** is a protein or complex sugar (polysaccharide) that causes an immune response.

- In 1900, children received 1 vaccine that contained about 200 antigens.
- By the 1980s, children received 7 vaccines that contained more than 3,000 antigens.
- Today, fully vaccinated children are exposed to fewer antigens in vaccines than those immunized 100 years ago. This is because improvements in protein chemistry and vaccine manufacturing have allowed for more purified vaccine formulations.

For additional information about vaccines and vaccine safety,
visit the Vaccine Education Center websites:

vaccine.chop.edu
vaccine.chop.edu/parents

 **The Children's Hospital
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VACCINE EDUCATION CENTER

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