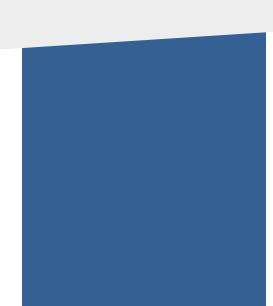
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IMPACTS OF Hib VACCINES

HEALTH

- · First conjugate vaccine approved to treat an infectious disease.³⁰
- More than 90% of children in the U.S. receive the Hib vaccine.31

Incidence of Hib cases declined more than 99% following availability of the conjugate vaccine

HIB DISEASE NEARLY ELIMINATED IN THE U.S. FOLLOWING THE VACCINE

A FDA Approved Hib Vaccines B Hib Vaccines Added to CDC Childhood Vaccine Schedule

SOCIETY

- · Hospitalization for Hibmeningitis costs upwards of \$38,000 depending on the severity of the disease.36
- NIH-supported researchers started a company and successfully moved Hib and other experimental vaccines through the full product development pipeline.37

For children born in 2009 alone. Hib vaccination saves \$3.7 billion. including more than \$1.8 billion in direct treatmen costs³⁵

KNOWLEDGE

- Hib vaccine research provided fundamental understanding of how the infant immune system works, stimulating new strategies for developing effective vaccines for infants.
- The Hib conjugate vaccine technology has been applied to create several vaccines against other disease-causing bacteria , such as pneumococci, meningococci, Salmonella typhi, group B streptococci, and E coli. 38