Utilizing Your EHR System to Help Improve Vaccination Rates for Child & Adolescent Patients

EHR=electronic health record.

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01. WHY CHILD AND ADOLESCENT VACCINATIONS MATTER TO HEALTH SYSTEMS

The Centers for Disease Control and Prevention (CDC) recognizes vaccination as a core component of quality healthcare, delivered through routine and catch-up immunization recommendations, and has documented the substantial success of childhood vaccination in preventing illness and death from serious diseases.[1,2]

To support vaccination efforts, the CDC publishes the Child and Adolescent Immunization Schedule and maintains disease-specific vaccine resources to guide clinical decision-making.[3] The impact of these efforts is considerable: a CDC *Morbidity and Mortality Weekly Report (MMWR)* analysis of US children born during 1994–2023 states that routine childhood vaccinations have prevented approximately 508 million lifetime cases of illness, 32 million hospitalizations, and 1,129,000 deaths—generating net savings of $540 billion in direct costs and $2.7 trillion in total societal costs.[4]

The CDC warns that declines in vaccination coverage increase the risk of outbreaks of vaccine-preventable diseases, resulting in higher healthcare utilization and added strain on health system resources.[1,4]



The CDC identifies several pediatric populations that are at increased risk for severe illness and hospitalization when vaccine-preventable diseases occur, including children with underlying medical conditions such as[3,5,6]:

- Prematurity or low birth weight
- Chronic lung disease or asthma
- Congenital heart disease
- Neurologic or neuromuscular conditions
- Immunocompromising conditions
- Metabolic disorders, such as diabetes

A CDC *MMWR* analysis estimates that implementation of routine childhood vaccinations yielded approximately $4,615 per patient in realized direct healthcare costs savings in patients born between 1994 and 2023.[4*]

*Per patient cost savings independently calculated by dividing total direct cost savings ($540 billion) by total patients included in the study (117 million).

TABLE 1. Health and economic outcomes in 30 cohorts of children—United States, 1994–2023[4]

Outcome Due to Vaccine-Preventable Illness	Number (All children born 1994-2023)*
Total illnesses prevented (×1000)	**507,683**
Total hospitalizations prevented (×1000)	**31,955**
Total deaths prevented (×1000)	**1129**
Direct cost† of routine immunization (billion, $)	240
Benefits in direct costs (billion, $)†	780
Direct net savings (billion, $)	540
Payer benefit-cost ratio‡	3.3
Societal cost of routine immunization (billion, $)	268
Benefits in societal costs (billion, $)§	2931
Societal net savings (billion, $)	2663
Societal benefit-cost ratio¶	10.9

*"All children" defined as both Vaccines for Children (VFC)-eligible and non-VFC-eligible children.
†Defined as expenses and resources uniquely traceable to the actual delivery and administration of the vaccines.
‡Payer benefit-cost ratio=benefits in direct costs/direct cost of routine immunizations.
§Potentially averting direct costs and societal costs by preventing illnesses and deaths.
¶Societal benefit-cost ratio=benefits in societal costs/societal cost of routine immunizations.

02. GSK RESOURCES TO HELP IMPROVE VACCINATION RATES FOR CHILD AND ADOLESCENT PATIENTS



The EHR guides described below are designed to help you configure your Epic Health EHR system to identify, quantify, and engage patients who are recommended to receive vaccines for vaccine-preventable diseases per the immunization schedule.

HEALTH SYSTEMS USING THE **EPIC EHR SYSTEM**

Child and Adolescent Population Health Insights and Reporting Guide

Provides EHR-specific instructions to help a healthcare organization configure their Epic Healthy Planet population health program features that are relevant for child and adolescent vaccinations. This includes generation of reports regarding patients recommended to receive vaccines for vaccine-preventable diseases per the immunization schedule, gaps in vaccination, and system site consistency in following protocol for vaccinating eligible child and adolescent patients.

Child and Adolescent Population Health Patient Activation Guide

Provides EHR-specific instructions to help a healthcare organization configure Epic Campaign Management across child and adolescent patient populations, including cadenced outreach messaging about vaccinations to appropriate patients, timed with various key intervals (eg, month) throughout the year.

HEALTH SYSTEMS USING THE **ORACLE HEALTH EHR SYSTEM**

Child and Adolescent Population Health Insights and Reporting Guide

Provides EHR-specific instructions to help a healthcare organization configure their Oracle Health HealtheIntent population health program with features that are relevant to child and adolescent vaccinations. This includes generation of reports regarding patients recommended to receive vaccines for vaccine-preventable diseases per the immunization schedule, gaps in vaccination, and system site consistency in following protocol for vaccinating eligible child and adolescent patients.

Child and Adolescent Population Health Patient Activation Guide

Provides EHR-specific instructions to help a healthcare organization configure campaign management across child and adolescent patient populations, including cadenced outreach messaging about vaccinations to appropriate patients, timed with various key intervals (eg, month) throughout the year.

03. NEXT STEPS

Scan QR code or enter this URL into your browser to access the EHR guides: **GSKforHealthSystems.com**



TAKE THE NEXT STEPS TO MORE FULLY UTILIZE YOUR EHR SYSTEM

Ask your GSK representative for the GSK guides to help address care gaps in child and adolescent vaccination within your patient population.

References: 1. Centers for Disease Control and Prevention. Vaccines and the diseases they prevent. CDC. Accessed June 22, 2026. https://www.cdc.gov/vaccines/by-disease/index.html **2.** Centers for Disease Control and Prevention. Vaccination programs. CDC. Updated July 17, 2024. Accessed June 22, 2026. https://www.cdc.gov/vaccines/hcp/imz-best-practices/vaccination-programs.html **3.** Centers for Disease Control and Prevention. Child and adolescent immunization schedule by age (addendum updated July 2, 2025). CDC. Updated July 2, 2025. Accessed June 22, 2026. https://www.cdc.gov/vaccines/hcp/imz-schedules/child-adolescent-age.html **4.** Zhou F, Jatlaoui TC, Leidner AJ, et al. Health and economic benefits of routine childhood immunizations in the era of the Vaccines for Children Program — United States, 1994–2023. *MMWR Morb Mortal Wkly Rep.* 2024;73(31):682-685. **5.** Centers for Disease Control and Prevention. Information for pediatric healthcare providers. CDC. Updated February 5, 2026. Accessed June 22, 2026. https://www.cdc.gov/covid/hcp/clinical-care/for-pediatric-hcp.html **6.** Trusinska D, Zin ST, Sandoval E, Homaira N, Shi T. Risk factors for poor outcomes in children hospitalized with virus-associated acute lower respiratory infections: a systematic review and meta-analysis. *Pediatr Infect Dis J.* 2024;43(5):467-476.

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