

Improving Population Health Among Adolescents

Vaccines Help Protect Adolescents Against Some Serious and Deadly Diseases, Yet Some Adolescent Vaccinations Remain Below Target¹⁻⁶

Risks and Complications



Meningococcal Disease

- Even with treatment, **~15 out of 100** people who get uncommon but serious meningococcal disease will die³
- Among those who survive, **10 to 20%** of people will have serious and permanent complications, including brain damage, kidney damage, hearing loss, and amputation of arms, legs, fingers, or toes³



HPV

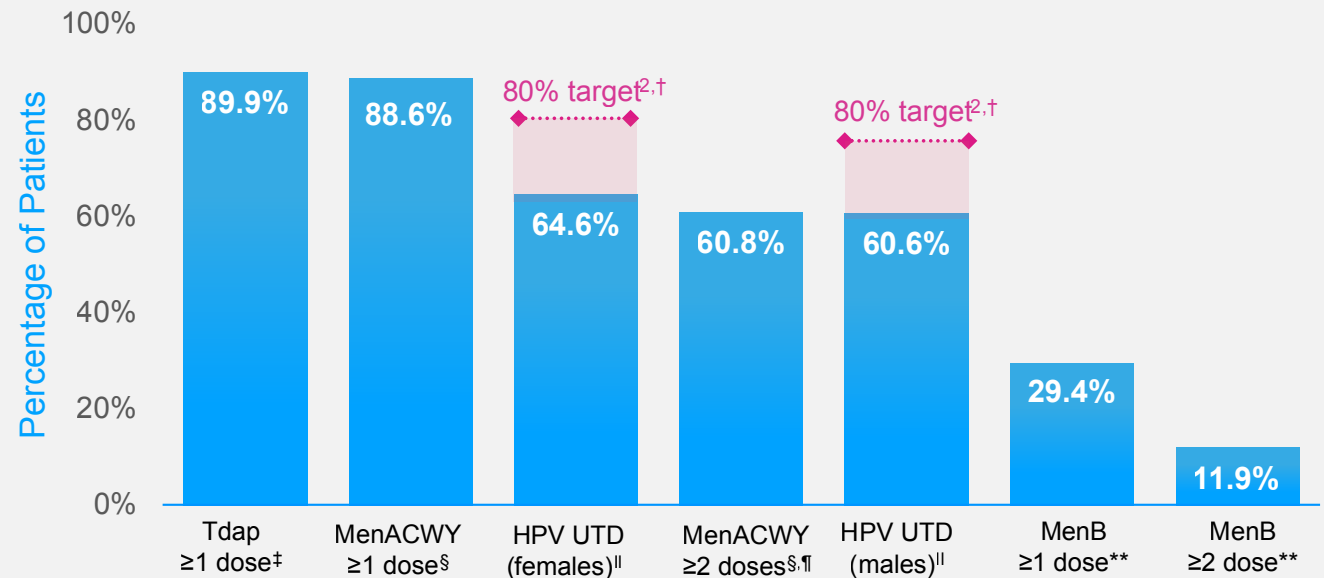
- HPV is the **most common** sexually transmitted infection in the US⁴
- HPV can lead to **6 types of cancer**, including cervical cancer⁴



Pertussis (Whooping Cough)

- **18,617 cases of whooping cough** were reported in the US in 2019⁵
- **Serious complications** of whooping cough in adolescents can include pneumonia; some may need care in the hospital if complications are serious⁶

Vaccination Rates in Adolescents Aged 13–17 Years (2022)^{1,*}



HPV=human papilloma virus; MenACWY=meningococcal ACWY; MenB=serogroup B meningococcal disease; NIS=National Immunization Survey; Tdap=tetanus, diphtheria, acellular pertussis; UTD=up to date.

*Adolescents in the 2022 NIS-Teen were born during January 7, 2004–January 10, 2010.¹

[†]Healthy People 2030 target for adolescents aged 13–15 years.²

[‡]Includes percentages receiving Tdap vaccine at age ≥10 years.¹

[§]Includes percentages receiving MenACWY or an unknown type of meningococcal vaccine.¹

^{||}HPV UTD includes those with ≥3 doses, and those with 2 doses when the first HPV vaccine dose was initiated at age <15 years. There were ≥5 months minus 4 days between the first and second dose. This update to the HPV recommendation occurred in December 2016.¹

[¶]≥2 doses of MenACWY or unknown type of meningococcal vaccine among adolescents aged 17 years at interview and does not include adolescents who received 1 dose of MenACWY vaccine at age ≥16 years.¹

^{**}Calculated only among adolescents who were aged 17 years at time of interview with vaccine administered based on individual clinical decision.¹

References: 1. Pingali C, Yankey D, Elam-Evans LD, et al. Vaccination coverage among adolescents aged 13–17 years—National Immunization Survey-Teen, United States, 2022. *MMWR Morb Mortal Wkly Rep.* 2023;72(34):912-919. 2. Healthy People 2030. Vaccination. Accessed April 1, 2024. <https://health.gov/healthypeople/objectives-and-data/browse-objectives/vaccination> 3. National Foundation for Infectious Diseases. Meningococcal disease. December 2023. Accessed April 1, 2024. <https://www.nfid.org/infectious-diseases/meningococcal-disease/> 4. CDC. Genital HPV infection – basic fact sheet. April 12, 2022. Accessed April 1, 2024. <https://www.cdc.gov/std/hpv/stdfact-hpv.htm> 5. CDC. Whooping cough or pertussis. March 13, 2024. Accessed April 1, 2024. <https://www.cdc.gov/nchs/fastats/whooping-cough.htm> 6. CDC. Complications. August 4, 2022. Accessed April 1, 2024. <https://www.cdc.gov/pertussis/about/complications.html>

Prioritizing Immunizations Across Quality Programs

On-Time Vaccination Is Essential for Protection Against Vaccine-Preventable Diseases, and Most Quality Programs Include Specific Measures for Adolescence¹⁻⁶

Quality Measures	Quality Payment Program			
	NCQA HEDIS ¹	MIPS ²	MVP ²	Medicaid Core ³
Vaccine Specific				
Immunization for Adolescents*	✓	✓		✓
Vaccine Relevant				
Child and Adolescent Well-Care Visits*	✓			✓
CAHPS Survey	✓	✓	✓ [†]	✓

The CDC/ACIP/AAP recommend **on-time routine immunization** with all childhood vaccines according to the CDC schedule.^{7,8}

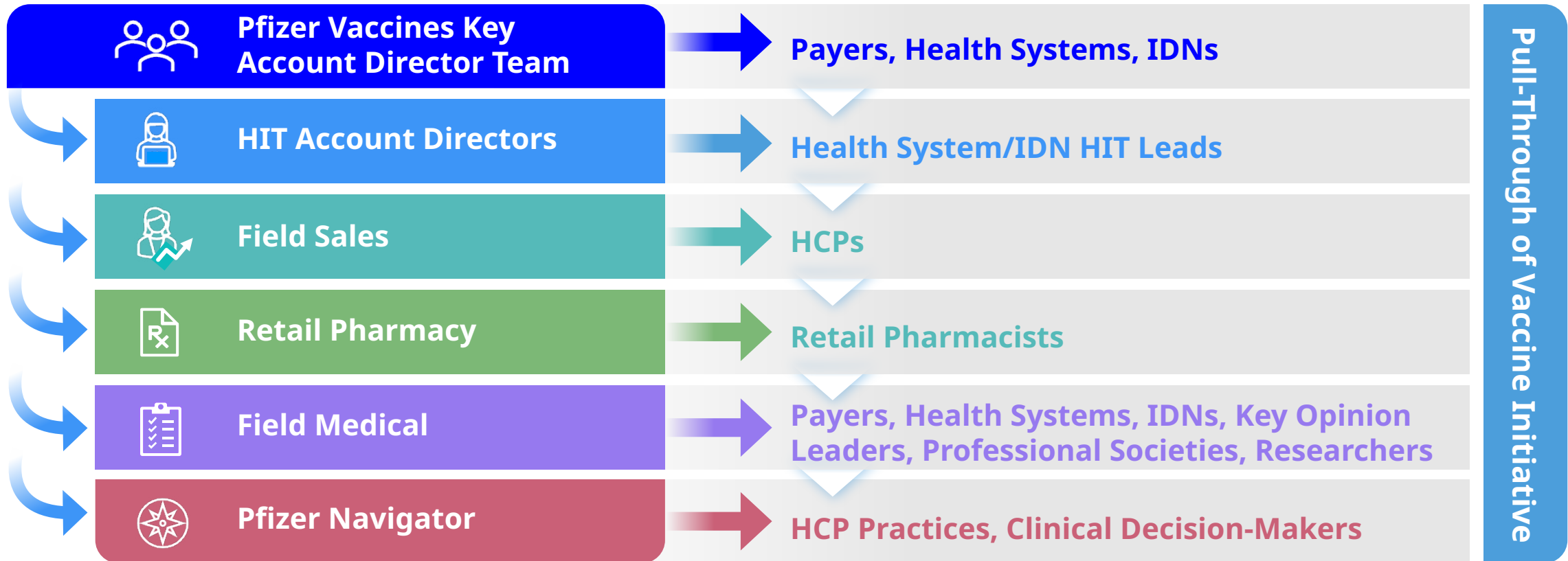
AAP=American Academy of Pediatrics; ACIP=Advisory Committee on Immunization Practices; CAHPS=Consumer Assessment of Healthcare Providers and Systems; CDC=Centers for Disease Control and Prevention; HEDIS=Healthcare Effectiveness Data and Information Set; MIPS=Merit-Based Incentive Payment System; MVP=MIPS Value Pathway; NCQA=National Committee for Quality Assurance.

*Includes race and ethnicity stratification.^{4,5}

[†]MVPs include Advancing Cancer Care, Adopting Best Practices and Promoting Patient Safety within Emergency Medicine, and Value in Primary Care.²

References: 1. NCQA. Summary table of measures, product lines and changes. Accessed April 1, 2024. <https://www.ncqa.org/wp-content/uploads/Summary-Table-of-Measures-Product-Lines-and-Changes.pdf> 2. CMS. Medicare and Medicaid programs; CY 2024 payment policies under the Physician Fee Schedule and other changes to Part B payment and coverage policies; Medicare Shared Savings Program requirements; Medicare Advantage; Medicare and Medicaid Provider and Supplier Enrollment policies; and Basic Health Program. November 2, 2023. Accessed April 1, 2024. <https://public-inspection.federalregister.gov/2023-24184.pdf> 3. Medicaid.gov. Core set of children's health care quality measures for Medicaid and CHIP (child core set), 2010-2024. Accessed April 1, 2024. https://www.medicaid.gov/sites/default/files/2023-08/2024-core-set-history-table_0.pdf 4. NCQA. HEDIS MY 2023: see what's new, what's changed and what's retired. August 1, 2022. Accessed April 1, 2024. <https://www.ncqa.org/blog/hedis-my-2023-see-whats-new-whats-changed-and-whats-retired/> 5. NCQA. Race and ethnicity stratification for auditors. 2022. Accessed April 1, 2024. <https://www.ncqa.org/wp-content/uploads/2022/04/NCQA-HEDIS-RES-Auditor-Resource-Guide-Version-1.pdf> 6. CDC. Why vaccinate. August 1, 2019. Accessed April 1, 2024. <https://www.cdc.gov/vaccines/parents/why-vaccinate/index.html> 7. CDC. Recommended child and adolescent immunization schedule for ages 18 years or younger. November 16, 2023. Accessed April 1, 2024. <https://www.cdc.gov/vaccines/schedules/downloads/child/0-18yrs-child-combined-schedule.pdf> 8. American Academy of Pediatrics. Immunizations. July 10, 2023. Accessed April 1, 2024. <https://www.aap.org/en/patient-care/immunizations/>

Pfizer Takes an Integrated, Collaborative Approach to Provide Resources to Help Organizations Improve Their Vaccination Rates



HIT Account Directors, Field Sales, Retail Pharmacy, Field Medical, and Pfizer Navigator teams assist the Vaccine Account Management team with pull-through of vaccine initiatives at the provider and individual practitioner level