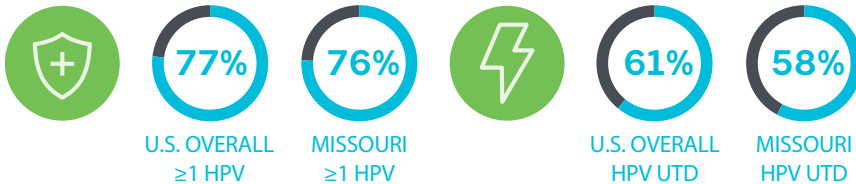


A PATH TO PREVENTION: →

State Profile: Missouri

On-time HPV vaccination protects best. HPV vaccination is routinely recommended at **age 11 or 12 years and may be started at age 9**. HPV vaccination is recommended for everyone ages 9-26. It's not too late to catch up on HPV vaccination. People ages 27-45 are also strongly encouraged to talk with a health care provider to see if HPV vaccination is right for them.

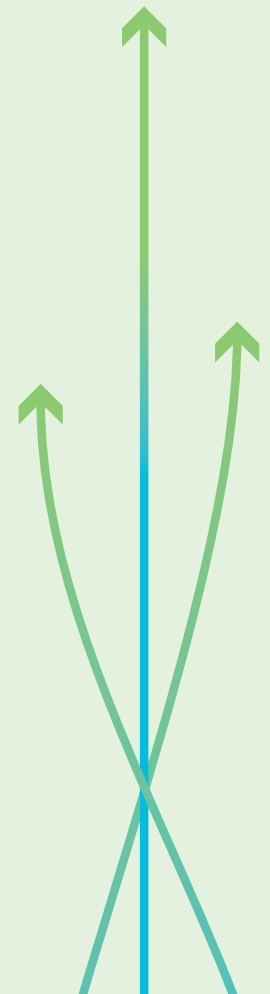
HPV VACCINATION RATES FOR 13-17 YEAR-OLDS AS OF 2023:



Missouri has increased HPV vaccination coverage of **≥1 dose by 24% and up-to-date (UTD) by 15% since 2016**. However, coverage remains **lower than the U.S. average** and below the Healthy People 2030 goal of 80% UTD. Compared to meningitis and whooping cough (Tdap) vaccines routinely recommended for adolescents, HPV vaccination coverage lags. Missouri vaccination rates **among 13-17 year olds were 88% for meningitis vaccine and 88% for Tdap vaccine in 2023**.

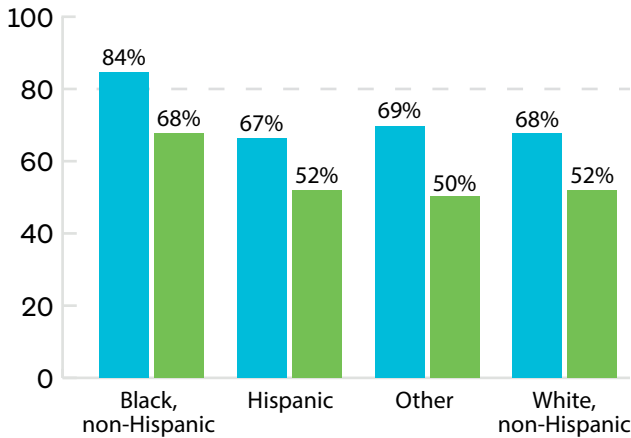


HPV vaccination protects against more than 90% of HPV cancers.

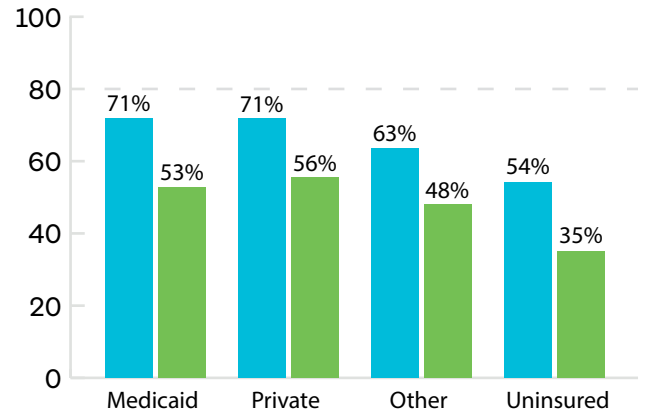


HPV VACCINATION RATES FOR 13-17 YEAR-OLDS AS OF 2022:

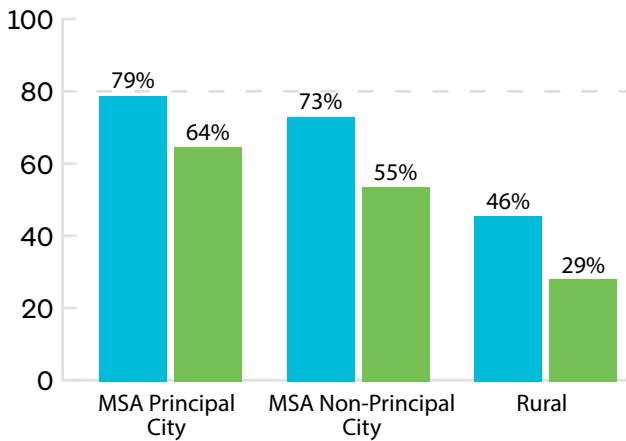
HPV Vaccination by Race/Ethnicity



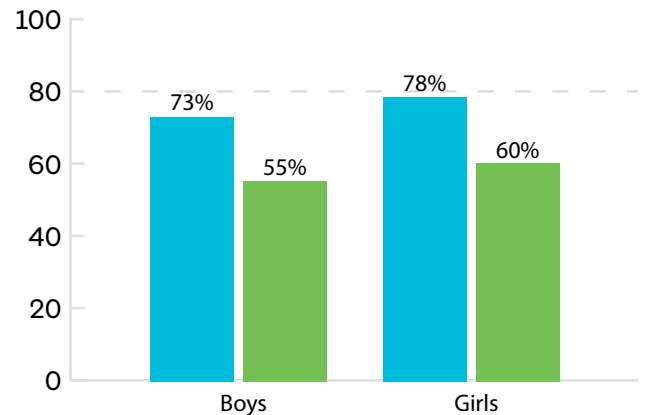
HPV Vaccination by Insurance Coverage



HPV Vaccination by Urbanicity



HPV Vaccination by Sex



----- Healthy People 2030 ■ ≥1 HPV Vaccination ■ HPV Vaccination Up-to-date

HPV vaccination data sources: CDC NIS-TEEN, 2023 accessed in TeenVax View, 2024

Demographic data for 2018-2022 are the most recently available.

HPV CANCERS:

HPV is a common virus linked to six types of cancer. The two most common HPV-associated cancers are oropharyngeal and cervical cancers. **Incidence rates of HPV cancers overall and for oropharyngeal and cervical cancers are higher in Missouri compared to the U.S. averages.**

New Cases

	All HPV Cancers	Oropharyngeal Cancer	Cervical Cancer
United States Overall	12.5	5.2	7.1
Missouri Overall	14.5	5.9	8.1
United States	Male: 11.2, Female: 13.9	Male: 9.1, Female: 1.6	Missouri ranks in the Top 13 nationally in cervical cancer incidence rates.
Missouri	Male: 12.9, Female: 16.2	Male: 10.2, Female: 1.9	

Incidence rates shown are cases per 100,000 persons.

ACTION STEPS:

Identify and engage key partners in HPV vaccination to develop, implement, and evaluate priority evidence-based interventions to increase HPV vaccination coverage in clinical, community and policy settings in Missouri:

- Encourage starting HPV vaccination at age 9 to increase series completion by age 13.
- Educate providers on the latest HPV research findings, using clear and concise fact sheets and educational materials.
- Improve capacity among health care providers (including oral health providers) to recommend and/or administer HPV vaccines.
- Increase awareness of the Vaccines for Children (VFC) program and increase the number of VFC providers.
- Promote HPV vaccination as cancer prevention among parents of adolescents.
- Identify and train provider champions to share information about the importance of provider recommendations.
- Identify strategies to improve HPV vaccination coverage for adolescents living in rural areas.
- Explore opportunities to implement school-based strategies to improve HPV vaccination coverage.
- Engage and support state-level partners in the development and implementation of strategic plans for the elimination of HPV cancers, beginning with cervical cancer, as a public health concern.

Pingali C, Yankey D, Elam-Evans LD, Markowitz LE, Valier MR, Fredua B, Crowe SJ, DeSisto CL, Stokley S, Singleton JA. Vaccination Coverage Among Adolescents Aged 13-17 Years - National Immunization Survey-Teen, United States, 2023. MMWR Morb Mortal Wkly Rep. 2024 Aug 25;72(34):912-919. doi: 10.15585/mmwr.mm7234a3. PMID: 37616185; PMCID: PMC10468222. U.S. Cancer Statistics Working Group.

U.S. Cancer Statistics Data Visualizations Tool, based on 2023 submission data (1999-2020); U.S. Department of Health and Human Services, Centers for Disease Control and Prevention and National Cancer Institute; <https://www.cdc.gov/cancer/dataviz>, released in June 2024

Missouri Cancer Action Plan 2021-2025. Missouri Department of Health and Senior Services. <https://health.mo.gov/living/healthcondiseases/chronic/cancer/pdf/cancer-action-plan-2021-2025.pdf>