



A PATH TO PREVENTION:

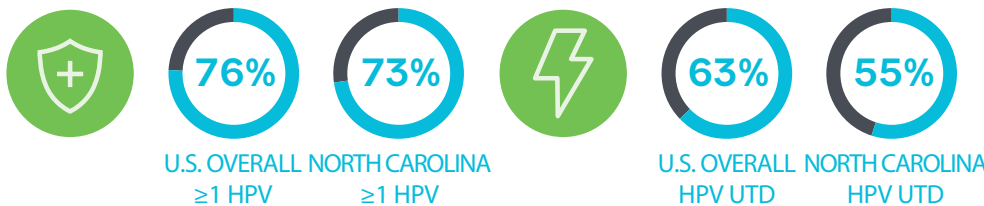
State Profile: North Carolina

HPV vaccination is recommended for routine vaccination at **age 11 or 12 years and may be started at age 9**. Adults age 27 to 45 should talk to their doctors to see if HPV vaccination is recommended for them.



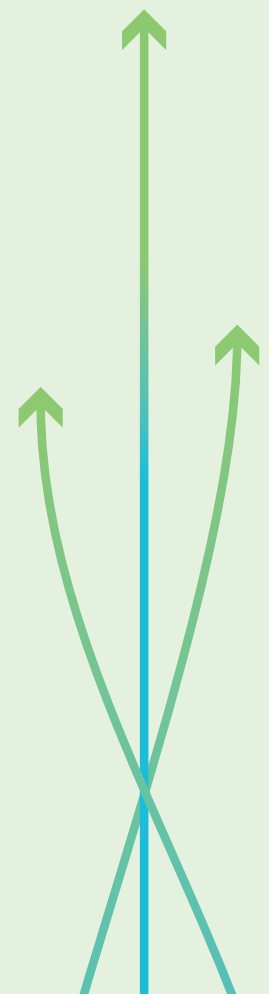
HPV vaccination protects against more than 90% of HPV cancers.

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



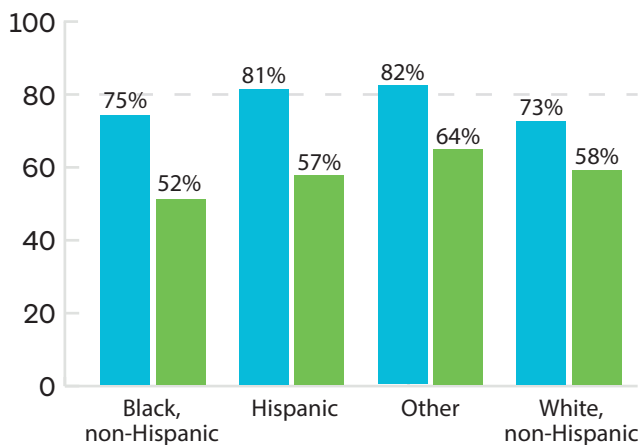
North Carolina has increased HPV vaccination coverage of **≥1 dose by 16% and up-to-date (UTD) by 14% since 2016**. However, coverage remains **lower than the U.S. average** and below the Healthy People 2030 goal of 80% UTD. Compared to meningitis and whooping cough (Tdap) vaccines routinely recommended for adolescents, HPV vaccination coverage lags. North Carolina vaccination rates **among 13-17 year olds were 93% for meningitis vaccine and 91% for Tdap vaccine in 2022**.

HPV vaccination data sources: CDC NIS-TEEN, 2022; TeenVax View, 2022

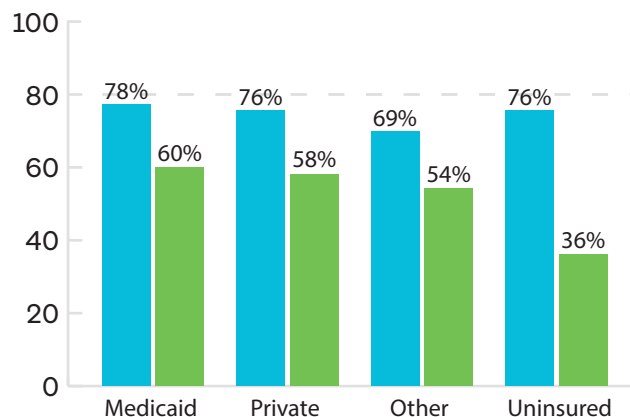


HPV VACCINATION RATES FOR 13-17 YEAR-OLDS AS OF 2022:

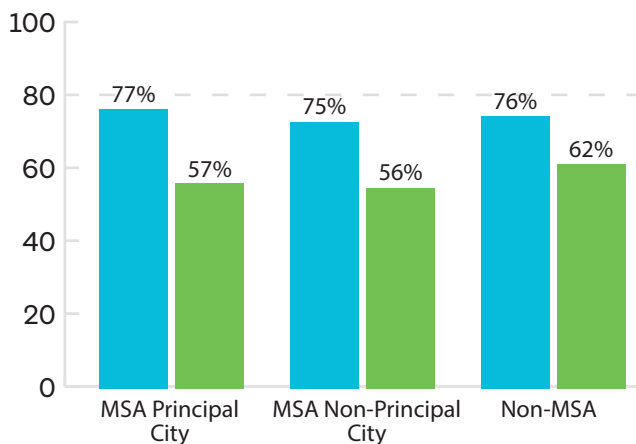
HPV Vaccination by Race/Ethnicity



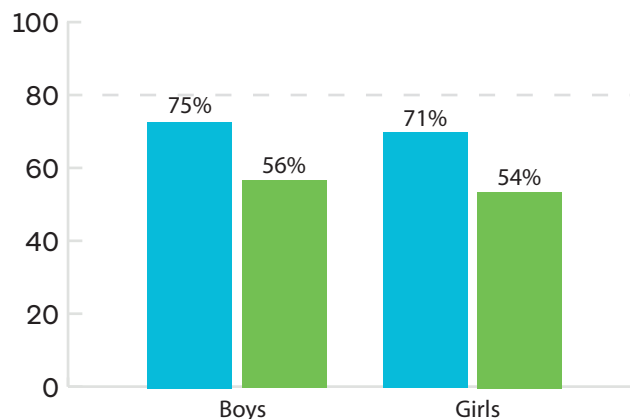
HPV Vaccination by Insurance Coverage



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, 2022; TeenVax View, 2022

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 oropharyngeal cancer are higher in North Carolina compared to the U.S. averages.**

New Cases

	All HPV Cancers	Oropharyngeal Cancer	Cervical Cancer
United States Overall	11.8	5.0	6.5
North Carolina Overall	13.2	5.6	6.4
United States	Male: 10.8, Female: 12.9	Male: 8.8, Female: 1.6	North Carolina ranks in the Top 25 Nationally in cervical cancer incidence rates.
North Carolina	Male: 12.2, Female: 14.1	Male: 9.9, Female: 1.8	

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 North Carolina:

- Encourage starting HPV vaccination at age 9 to increase series completion by age 13.
- Coordinate with partners to create a campaign that promotes the importance of HPV vaccination.
- Provide QI resources to healthcare systems to improve HPV vaccination coverage.
- Provide training to health care professionals on how to effectively make strong HPV vaccine recommendations including using the announcement approach.
- Educate state policymakers about HPV vaccination and HPV cancer burden to provide increased funding for improving HPV vaccination programs.

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, 2022. *MMWR Morb Mortal Wkly Rep.* 2023 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 2022 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 2023.

North Carolina Advisory Committee on Cancer Coordination and Control. (2020, October). North Carolina Comprehensive Cancer Control Action Plan, 2020-2025. <https://ftp.cdc.gov/pub/publications/cancer/ccc/north-carolina-ccc-plan-508.pdf>.