

CANCER STATISTICS				
Data Source	Description	Guidance	Strengths	Limitations
<p><a href="#">ACS Cancer Statistics Center</a></p> <p>Owner: American Cancer Society</p>	<p>The Cancer Statistics Center website is a comprehensive interactive resource for learning about the cancer burden in the United States for the most common cancers.</p> <p>It includes:</p> <ul style="list-style-type: none"> <li>The estimated numbers of new cancer cases and deaths in the current year</li> <li>Current cancer incidence, mortality, and survival rates and trends</li> <li>State-level risk factor and screening metrics</li> </ul>	<p>Summary data is available on first page.</p> <p>To dig deeper by state, cancer type, etc. navigate to options along top banner.</p> <p>In the Analysis Tool option, you can choose several metrics to compare (i.e., estimated new cases of a cancer type, state, and sex).</p> <p>The website offers a new way to explore the data ACS publishes in the annual <a href="#">Cancer Facts &amp; Figures</a> report.</p>	<ul style="list-style-type: none"> <li>Cervical cancer data rates are included</li> <li>Merges data from ACS researchers annual paper, <a href="#">Cancer Statistics</a>, published in the American Cancer Society journal, <i>CA: A Cancer Journal for Clinicians</i></li> </ul>	<ul style="list-style-type: none"> <li>Rates are not provided for other cancers caused by HPV (vulva, vagina, penis, anus, and oropharynx)</li> </ul>
<p><a href="#">CDC HPV Cancer Statistics</a></p> <p>Owner: CDC</p>	<p>The CDC annually provides updates on the number of cancers associated with HPV. Incidence data comes from population-based registries that participated in CDC’s National Program of Cancer Registries or the National Cancer Institute’s Surveillance, Epidemiology, and End Results Program and met high-quality data for the 2021 data submission period, covering 99% of the U.S. population (excluding data from NV).</p>	<p>HPV cancers are listed by anatomical site in the table. Note the varying percentages of attributable cancers by site.</p> <p>Population-based cancer registries do not routinely collect information about HPV status; however, the data can be used to monitor the number and trends of cancers associated</p>	<ul style="list-style-type: none"> <li>Data is specific to HPV</li> <li>Data is noted by sex and cancer site</li> <li>Data is updated annually</li> <li>2022 data summarized in <a href="#">this brief</a></li> </ul>	<ul style="list-style-type: none"> <li>Data are calculated based on cases over a period of years</li> </ul>

# HPV Data Sources

## Recommended Resources for Partners

		with HPV and estimate the number probably caused by HPV.  <i>Bonus site:</i> <a href="#">CDC's U.S. Cancer Statistics</a>	<i>For bonus site:</i> This site can provide data on all HPV cancers combined. Navigate to cancers grouped by associated risk under "special analyses", then use the drop down to select HPV, and select year/span.	
<a href="#">NCI Cancer Statistics</a>  <i>Owner:</i> National Cancer Institute	The National Cancer Institute has multiple tools and geographic mapping programs to look at various cancers. It includes SEER (Surveillance, Epidemiology, & End Results Program) and NCCR (National Childhood Cancer Registry) data.	Access data query tools, state profiles/geographic info, and cancer costs.	<ul style="list-style-type: none"> <li>• Trends by sex, age, race</li> <li>• Calls out anal, cervical, oropharynx/tonsil, vaginal and vulvar rates</li> <li>• Compares incidence &amp; mortality</li> </ul>	<ul style="list-style-type: none"> <li>• Rates not provided for penile cancers</li> </ul>
IMMUNIZATION DATA				
Data Source	Description	Guidance	Strengths	Limitations
<a href="#">Immunization Information Systems (IIS)/ State Registries</a>  <a href="#">Seek via CDC's site</a> to connect to state DOH websites	An IIS is a database that records all immunization doses administered by participating providers.  Different states have different reporting requirements.  <i>Bonus site:</i> <a href="#">AIRA</a> is the Association of Immunization Registries and offers supporting	Review what IIS info is publicly available in your state.  Discuss with your state Immunization Program Manager what additional info they may have to share with public health partners.	<ul style="list-style-type: none"> <li>• High level of geographic detail</li> <li>• Provider level reports may be possible</li> <li>• Real time (for most)</li> <li>• Provides state, county and zip code info</li> </ul>	<ul style="list-style-type: none"> <li>• States may limit public access to providers and/or parents</li> <li>• Capabilities &amp; inclusion rates may vary by state</li> <li>• Provider reporting requirements vary</li> <li>• Interaction with health system EHRs varies</li> </ul>

# HPV Data Sources

## Recommended Resources for Partners

<p>Owner: State depts. of health</p>	<p>resources/data to states.</p>			<p>significantly (IIS may be bi-directional, one-directional, or no interface possible)</p> <ul style="list-style-type: none"> <li>• Registries may have “opt-in” or “opt-out” provisions. Most registries are opt-out, meaning patients can request to have some or all of their immunization data removed. Opt-in registries (e.g. Texas) require a consent form to store records.</li> </ul>
<p><a href="#">National Immunization Survey (NIS-Teen)</a></p> <p>Owner: Centers for Disease Control and Prevention</p>	<p>CDC publishes annual survey data on teen vaccination coverage, inclusive of HPV vaccination. Data can be viewed by tables or maps.</p> <p>MMWR is a weekly report of top CDC issues. They release an annual narrative update when NIS-Teen data is released.</p> <p>Supporting resource: <a href="#">2022 MMWR publication</a> (released Aug. 2023)</p>	<p>A snapshot for state-to-state comparison. Data provides national, state and a few cities.</p>	<ul style="list-style-type: none"> <li>• Primary data source to understand HPV vaccination rates nationally and by state</li> <li>• Demographic/sub-population breakdowns</li> <li>• Frequently cited/ used</li> <li>• Compares geographic details</li> </ul>	<ul style="list-style-type: none"> <li>• Survey with may have limited sampling by state</li> <li>• No county/MSA level data</li> <li>• Data lags one year behind calendar year</li> </ul>
<p><a href="#">Vaccines for Children Vaccine Distribution/</a></p>	<p>CDC’s <a href="#">Vaccines for Children</a> program provides vaccines at no cost to children who might not otherwise be vaccinated because of inability to pay. VFC ordering</p>	<p>Review publicly available DOH HPV data (if any). Some states have current dashboards with county-level data.</p>	<ul style="list-style-type: none"> <li>• County data is often current and precise</li> <li>• CDC data compare pre/post pandemic</li> </ul>	<ul style="list-style-type: none"> <li>• Private insurance ordering data not available on local level</li> <li>• Ordering data is more</li> </ul>

# HPV Data Sources

## Recommended Resources for Partners

<p><b>Ordering Info</b></p> <p>Learn more from your <a href="#">state immunization program</a></p> <p><i>Owner:</i> CDC &amp; State DOHs</p>	<p>info is a proxy for the amount of publicly provided vaccinations.</p> <p>Program Effectiveness (PE) is a component of CDC’s Immunization and VFC cooperative agreement with 64 state/jurisdiction awardees receiving funding for programmatic activities. PE requires that each awardee identify population subgroups with low vaccination coverage and select at least one subgroup for targeted activities to improve coverage.</p> <p>To assist with identifying areas of potentially low coverage for children during/after the pandemic, CDC generated awardee-specific county-level non-influenza VFC ordering reports (the VTrckS Report). HPV orders are included at the state level and compare to pre-pandemic.</p>	<p>Your state Immunization program partner may be able to share a report on state VFC orders produced for each state/territory by CDC. CDC encourages sharing the report with partners.</p> <p>The technical name of the report is “Non-Influenza VFC Vaccine Doses Ordered via CDC’s Vaccine Tracking System Reports.” It is called “VTrcks” in shorthand.</p>	<p>and compares HPV orders to other adolescent vaccines</p>	<p>difficult to interpret and less meaningful than vaccination rate data</p> <ul style="list-style-type: none"> <li>• VTrckS reports available by request only and are not a well-known resource (they were created during the pandemic)</li> </ul>
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### HEALTH PLAN DATA

Data Source	Description	Guidance	Strengths	Limitations
<p><b>Health Plan/ Individual Claims Data</b></p> <p>Visit individual health plan</p>	<p>Partnerships with health plans may provide proprietary data on adolescent immunization. Some plans may have info on their website. Collaborate with quality improvement leads or medical directors to ascertain existing or needed data</p>	<ul style="list-style-type: none"> <li>• Conversation can facilitate identification of gaps and opportunities around the IMA measure, including development of provider report cards, targeted</li> </ul>	<ul style="list-style-type: none"> <li>• Accurate and specific to partner</li> <li>• High level of geographic detail</li> <li>• Provider level reports</li> </ul>	<ul style="list-style-type: none"> <li>• Strong relationships needed with partner</li> <li>• Often requires engaging multiple departments and can take time (ex: QI leads</li> </ul>

# HPV Data Sources

## Recommended Resources for Partners

<p>partner websites</p> <p>Owner: Health plans</p>	<p>reports.</p> <p><i>Bonus:</i> <a href="#">Health Insurance Coverage Data by State</a></p>	<p>provider education/ recognition, patient reminder systems, and systems' improvement</p> <ul style="list-style-type: none"> <li>Benchmark plans to national averages available <a href="#">here</a></li> </ul>	<p>possible</p>	<p>may need to request new IT-built reports)</p> <ul style="list-style-type: none"> <li>Data may lag behind real time performance (up to several months)</li> <li>Plans often integrate claims data with IIS and EHR data for HEDIS</li> </ul>
<p><a href="#">HEDIS Data: Immunization Measure for Adolescents (IMA)</a></p> <p>Owner: National Committee for Quality Assurance (NCQA)</p>	<p>The Healthcare Effectiveness Data and Information Set (HEDIS) is one of health care's most widely used performance improvement tools. The IMA assesses adolescents 13 years of age who had one dose of meningococcal vaccine, one Tdap vaccine and the complete human papillomavirus vaccine series by their 13th birthday.</p> <p><i>Bonus:</i> <a href="#">NCQA Health Plan Performance Report Cards</a></p>	<ul style="list-style-type: none"> <li>Industry standard metric for health plans</li> <li>HPV national info available by commercial HMO, commercial PPO, and Medicaid HMO</li> <li>Plans submit data annually in June</li> <li>NCQA report cards can provide insight into various plans' performance on the measure (ex: star rating on IMA)</li> <li>Can look up partner plan ratings by state/name</li> </ul>	<ul style="list-style-type: none"> <li>HPV is tied to 2 other vaccines, but can view HPV standalone performance</li> <li>Having an adolescent measure inclusive of HPV provides opportunity for quality improvement given current low rates</li> <li>Plans can tie IMA to provider/system performance to incentivize improvements</li> </ul>	<ul style="list-style-type: none"> <li>IMA not a mandatory measure for many plan members</li> <li>IMA reports by age 13, so QI efforts at ages 9-10 take longer to show up in improved rates</li> <li>IMA doesn't compare HPV initiation and missed opportunities with mening and tdap doses</li> </ul>
<p><a href="#">Medicaid IMA Performance by State (aka Core Set of Children's Health Care)</a></p>	<p>States voluntarily report on Immunizations for Adolescents (IMA-CH) as part of the Core Set of Children's Health Care Quality Measures.</p> <p>These data show performance rates for</p>	<p>The included populations and calculation methods for Child Core Set measures can vary by state. For example, some states report a single combined rate for both the Medicaid and CHIP</p>	<ul style="list-style-type: none"> <li>State-specific public plan data on IMA, with state and Medicaid/CHIP filters</li> <li>Can filter by full IMA combo or just HPV</li> </ul>	<ul style="list-style-type: none"> <li>States may include beneficiaries in some delivery systems, but exclude other delivery systems. For example, a state may include</li> </ul>

# HPV Data Sources

## Recommended Resources for Partners

<p><a href="#">Quality Measures</a></p> <p>Owner: Medicaid</p>	<p>states that voluntarily reported the measure using Child Core Set measure specifications.</p> <p>NOTE: Some states have created different names for their Medicaid and the Children’s Health Insurance Program (CHIP) programs. Find out the <a href="#">name by state here</a>.</p>	<p>populations, but other states report separate rates for these populations.</p> <p>Bonus: <a href="#">State Medicaid program links</a></p>	<ul style="list-style-type: none"> <li>• States may offer quality incentives to plans to improve IMA-CH</li> <li>• State Department of Health is a One stop for all Medicaid data</li> <li>• MCO have only their data</li> </ul>	<p>beneficiaries who are enrolled in managed care, but exclude beneficiaries who are covered on a fee-for-service (FFS) basis.</p> <ul style="list-style-type: none"> <li>• States can also choose to calculate this measure using the administrative or hybrid method. This variation in populations and calculation methods can affect measure performance and comparisons between states.</li> <li>• Report building resources can be limited</li> <li>• Reports typically available monthly and quarterly</li> </ul>
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### ACS NATIONAL QUALITY IMPROVEMENT COHORT DATA MAPS

Data Source	Description	Guidance	Strengths	Limitations
<p><a href="#">2023 Prevention &amp; Screening QI Cohort Data for Health Systems</a></p>	<p>This map aggregates data collected for health systems participating in the national QI cohort. It includes breast, cervical, colorectal, HPV, and lung-focused projects.</p> <p><a href="#">2023 Cohort Map</a></p>	<ul style="list-style-type: none"> <li>• Filter for HPV projects</li> <li>• Lists partners &amp; system types</li> <li>• These systems provide detailed baseline, midyear and final data to I&amp;I that ACS staff partners can access for</li> </ul>	<ul style="list-style-type: none"> <li>• Visual capture of projects by state engaging with ACS on HPV QI work</li> <li>• Allows for ACS regions to assess partner</li> </ul>	<ul style="list-style-type: none"> <li>• Map only includes partners that signed onto 12-month QI partnership, and does not include all HPV partnerships with staff</li> </ul>

# HPV Data Sources

Recommended Resources for Partners

<p>Owner: ACS Interventions &amp; Implementation</p>	<p><a href="#">2022 Cohort Map</a></p>	<p>specific rate information.</p>	<p>engagement on 12 month-long projects</p>	
<p><a href="#">ACS HPV VACS QI Project History</a></p> <p>Owner: ACS Interventions &amp; Implementation</p>	<p>This map aggregates data on HPV QI projects from 2015-2022 through the VACS national cohort.</p>	<ul style="list-style-type: none"> <li>Filter by state, year, ACS region, system type</li> </ul>	<ul style="list-style-type: none"> <li>Provides visualization of historical quality improvement 12-month projects</li> </ul>	<ul style="list-style-type: none"> <li>Limited to partners that signed on for year-long partnerships</li> </ul>

## SUPPORTING DATA SOURCES

Data Source	Description	Guidance	Strengths	Limitations
<p><a href="#">Agency for Healthcare Research &amp; Quality (AHRQ)</a></p>	<p>AHRQ data and analysis help healthcare decision makers understand how the US healthcare system is working and where there are opportunities for improvement.</p> <p>Bonus: <a href="#">National Healthcare Quality &amp; Disparities Reports</a></p>	<p>Can provide contextual info</p>	<ul style="list-style-type: none"> <li>Provides state and national level data on a variety of indicators</li> </ul>	<ul style="list-style-type: none"> <li>Very broad</li> </ul>
<p><a href="#">County Health Rankings &amp; Roadmap</a></p> <p>Owner: University of Wisconsin Population</p>	<p>County Health Rankings &amp; Roadmaps program provides data, evidence, guidance, and examples to build awareness of the multiple factors that influence health and support leaders in growing community power to improve health equity.</p>	<p>Provides data on a variety of contextual health factors.</p> <p>Can view by county, zip, state, national report.</p>	<ul style="list-style-type: none"> <li>Comprehensive data</li> </ul>	<ul style="list-style-type: none"> <li>Does not include HPV data</li> </ul>

# HPV Data Sources

## Recommended Resources for Partners

<p>Health Institute</p>	<p>The Rankings are unique in their ability to measure the health of nearly every county in all 50 states, and are complemented by guidance, tools, and resources designed to accelerate community learning and action.</p>			
<p><a href="#">Health Center Program Uniform Data System (UDS)</a></p> <p>Owner: HRSA</p>	<p>Each calendar year, HRSA Health Center Program awardees and look-alikes are required to report a core set of information, including data on patient characteristics, services provided, clinical processes and health outcomes, patients' use of services, staffing, costs, and revenues as part of a standardized reporting system known as the UDS.</p>	<ul style="list-style-type: none"> <li>• Access data by state and health center</li> <li>• Annual updates</li> <li>• Hover over state to see data on funded sites, and scroll down for clinical data</li> </ul>	<ul style="list-style-type: none"> <li>• Includes screening data for breast, cervical and colorectal rates</li> </ul>	<ul style="list-style-type: none"> <li>• Does not include adolescent immunization data</li> </ul>
<p><a href="#">Immunization Laws by State</a></p> <p>Owner: Immunize.org</p>	<p>Immunize.org works to increase immunization rates and prevent disease by creating and distributing educational materials for healthcare professionals and the public that enhance the delivery of safe and effective immunization services.</p>	<ul style="list-style-type: none"> <li>• Shows requirements by state for various vaccines</li> </ul>	<ul style="list-style-type: none"> <li>• Ability to select HPV map for secondary education mandated vaccines</li> </ul>	<ul style="list-style-type: none"> <li>• There are only 3 states and D.C. which mandate HPV vaccination</li> </ul>
<p><a href="#">National Alliance of State Pharmacy Associations</a></p> <p>Owner: NASPA</p>	<p>NASPA is dedicated to enhancing the success of state pharmacy associations in their efforts to advance the profession of pharmacy. NASPA's membership is comprised of state pharmacy associations and over 70 other stakeholder organizations.</p>	<ul style="list-style-type: none"> <li>• Permission to administer vaccines differs state to state. This website includes updated overviews throughout the year.</li> <li>• Click on link to Pharmacist Immunization Authority Report</li> </ul>	<ul style="list-style-type: none"> <li>• Includes info on adult and child immunization ages 7-18</li> </ul>	<ul style="list-style-type: none"> <li>• Pharmacists may be able to administer in some states, but they may need a prescription or may not be allowed to give to children</li> <li>• No specific HPV map</li> </ul>



# HPV Data Sources

## Recommended Resources for Partners

<p><a href="#">State Comprehensive Cancer Plans</a></p> <p>Owner: CDC</p>	<p>Comprehensive cancer control (CCC) plans identify how an organization or coalition addresses the burden of cancer in its geographic area. The plans are specific to each region and based on data collected about people living there.</p> <p>Bonus: <a href="#">Comp Cancer Plan HPV Tip Sheet</a> <a href="#">Comp Cancer Coalitions TA</a></p>	<ul style="list-style-type: none"> <li>• All 50 states, the District of Columbia, 6 U.S. Pacific Island jurisdictions and Puerto Rico, and 8 tribes and tribal organizations have produced 63 plans</li> <li>• Map links directly to state cancer plans</li> <li>• Plans may include HPV cancer prevention component</li> </ul>	<ul style="list-style-type: none"> <li>• CCC coalitions are uniquely positioned to work with immunization partners to encourage and enable HPV vaccination</li> <li>• Including HPV tactics in plan can help drive measurable progress</li> </ul>	<ul style="list-style-type: none"> <li>• States are on different five year planning cycles</li> </ul>
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