State Profile: Missouri

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 Rates for 13–17 Year-Olds as of 2020:**

- **U.S. Overall ≥1 HPV**: 75%
- **Missouri ≥1 HPV**: 70%
- **U.S. Overall HPV UTD**: 59%
- **Missouri HPV UTD**: 54%

Missouri has increased HPV vaccination coverage of ≥1 dose and up-to-date (UTD) by 18% 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 85% for meningitis vaccine and 84% for Tdap vaccine in 2020.
HPV Vaccination Rates for 13–17 Year-Olds as of 2020 (Continued):

- **HPV Vaccination by Race/Ethnicity**:
  - Black, non-Hispanic: 67%
  - Hispanic: 71%
  - Other: 65%
  - White, non-Hispanic: 55%

- **HPV Vaccination by Insurance Coverage**:
  - Medicaid: 62%
  - Private: 57%
  - Other: 53%
  - Uninsured: 48%

- **HPV Vaccination by Urbanicity**:
  - MSA Principal City: 67%
  - MSA Non-Principal City: 59%
  - Non-MSA: 41%

- **HPV Vaccination by Sex**:
  - Boys: 69%
  - Girls: 71%

Healthy People 2030

HPV vaccination data sources: CDC NIS-TEEN, 2021; TeenVax View, 2021
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

<table>
<thead>
<tr>
<th></th>
<th>All HPV Cancers</th>
<th>Oropharyngeal Cancer</th>
<th>Cervical Cancer</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States Overall</td>
<td>12.4</td>
<td>5.1</td>
<td>7.1</td>
</tr>
<tr>
<td>Missouri Overall</td>
<td>13.5</td>
<td>6.0</td>
<td>7.9</td>
</tr>
<tr>
<td>United States</td>
<td>Male: 11.0, Female: 13.7</td>
<td>Male: 8.9, Female: 1.7</td>
<td>Missouri ranks in the Top 20 Nationally in cervical cancer incidence rates.</td>
</tr>
<tr>
<td>Missouri</td>
<td>Male: 12.3, Female: 14.8</td>
<td>Male: 10.3, Female: 2.0</td>
<td></td>
</tr>
</tbody>
</table>

Incidence rates shown are cases per 100,000 persons.

### ACTION STEPS:

Identify and engage key stakeholders in HPV vaccination efforts through vaccination and cancer prevention stakeholders in Missouri to develop, implement, and evaluate an action plan for increasing HPV vaccination coverage:

- Align with existing efforts to promote vaccinations to optimize impact.
- Increase on-time HPV vaccination overall and specifically focus on completion rates among adolescents who have initiated the HPV vaccination series and adolescents living in rural areas.
- Monitor and mitigate the ongoing effects of the COVID-19 pandemic on HPV vaccination and consider co-administration of HPV vaccination with other recommended vaccinations.

Implement priority evidence-based interventions in clinical and community settings, such as:

- Promote strong health care provider recommendations, integrate quality improvement approaches to build supportive clinical systems, use reminder and recall approaches, and reduce missed opportunities.
- Build HPV vaccination confidence in the public, especially among parents and caregivers, to increase HPV vaccination.

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