HPV FACT SHEET

HPV vaccination is approved for routine vaccination of boys and girls at age 11 or 12 years and for young men and women through age 26. HPV vaccines protect against certain high risk types of HPV that cause cancers such as cervical, oropharyngeal, vulvar, vaginal, penile, and anal.

**FACT: HPV and HPV-related diseases are common.**

- The lifetime risk of acquiring an HPV infection is approximately 80%.

- There were an estimated 10,700 new cases of cervical cancer, 11,000 new cases of oropharyngeal cancer, and 4,600 new cases of anal cancer in the United States attributed to HPV every year from 2008 through 2012.

- The annual number of HPV-positive oropharyngeal cancers has now surpassed the annual number of cervical cancers.

**FACT: Treating diseases caused by HPV is expensive.**

- HPV and HPV-related diseases are common.

- In the United States, the overall annual direct medical cost burden of preventing and treating HPV-related disease is at least $8.0 billion.

- In Texas, annual HPV-related disease costs for men and women approach $170 million.

**FACT: The vaccine does not increase sexual activity.**

- Studies have shown that girls who received the HPV vaccine are not more likely to become sexually active earlier than those who did not receive the vaccine.

**FACT: HPV can be transmitted through various forms of contact, and intercourse is not required to contract the infection.**

- HPV can be found on skin and mucosal surfaces throughout the body, including the mouth.

**FACT: The vaccine is safe and it works.**

- The 9-valent HPV vaccine (Gardasil 9) protects against nine HPV subtypes (6, 11, 16, 18, 31, 33, 45, 52, 58). HPV types 16 and 18 cause 70% of all cervical, anal, and genital cancers in women, and 70% of anal cancers in men. HPV types 6 and 11 cause 90% of all genital warts in men and women.

- Since HPV vaccinations began, there has already been a decrease in incidence of HPV infection, warts and pre-cancers.

- Like all vaccines, the HPV vaccine is most effective if it is given BEFORE a person is exposed to the disease.

- The HPV vaccines produce a higher immune response in preteens and young teens than they do in older teens and young adults - which is why it is so important for children to get vaccinated before age 15.

- The Centers for Disease Control and Prevention (CDC) and the Food and Drug Administration (FDA) continually monitor vaccine safety and show no safety concerns. As of December 2016, approximately 90 million doses of HPV vaccine were distributed in the U.S., and no serious safety concerns have been linked to HPV vaccination.

- All 69 NCI-designated cancer centers recommend the HPV vaccine for female and male adolescents.

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*Estimated number of cases occurring at HPV-related subsites of the pharynx (base of tongue and tonsil/oropharynx)
**HPV: Numbers & Statistics**

<table>
<thead>
<tr>
<th>Cancer Statistics</th>
<th>in U.S. 2017¹¹</th>
<th>in TX, 2015¹²,¹³</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cancer Type</td>
<td>New Cases</td>
<td>Deaths</td>
</tr>
<tr>
<td>Oropharyngeal (Throat/Tonsil) ¹</td>
<td>17,000</td>
<td>3,050</td>
</tr>
<tr>
<td>Cervical (Cervix Uteri) ²</td>
<td>12,820</td>
<td>4,210</td>
</tr>
<tr>
<td>Vulvar (Vulva) ²</td>
<td>6,020</td>
<td>1,150</td>
</tr>
<tr>
<td>Vagina ²</td>
<td>4,810</td>
<td>1,240</td>
</tr>
<tr>
<td>Anus, Anal Canal and Anorectum ²</td>
<td>8,200</td>
<td>1,100</td>
</tr>
<tr>
<td>Penile ²</td>
<td>2,120</td>
<td>360</td>
</tr>
</tbody>
</table>

**Total Estimated Cancer Deaths**

- 11,110
- 1,273

*Estimated number of cases occurring at HPV-related subsites of the pharynx (base of tongue and tonsil/oropharynx).

**Worldwide HPV Vaccination Rates for Girls¹⁴**

- **Rwanda**: 99%
- **United Kingdom**: 86%
- **Belgium**: 82%
- **Portugal**: 87%
- **Denmark**: 82%
- **Australia**: 73%
- **United States**: 41.9%

**HPV Vaccination and Texas 2015 Immunization Survey¹⁰**

<table>
<thead>
<tr>
<th>Cancer Type</th>
<th>Texas Girls</th>
<th>Houston Girls</th>
<th>Bexar Co. Girls</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;1HPV</td>
<td>60.1%</td>
<td>66.9%</td>
<td>56.2%</td>
</tr>
<tr>
<td>&gt;2HPV</td>
<td>50.4%</td>
<td>58.1%</td>
<td>46.5%</td>
</tr>
<tr>
<td>&gt;3HPV</td>
<td>40.9%</td>
<td>42.8%</td>
<td>32.8%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cancer Type</th>
<th>Texas Boys</th>
<th>Houston Boys</th>
<th>Bexar Co. Boys</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;1HPV</td>
<td>41.4%</td>
<td>58.6%</td>
<td>40.3%</td>
</tr>
<tr>
<td>&gt;2HPV</td>
<td>32.9%</td>
<td>46.4%</td>
<td>28.9%</td>
</tr>
<tr>
<td>&gt;3HPV</td>
<td>24.0%</td>
<td>22.7%</td>
<td>19.9%</td>
</tr>
</tbody>
</table>

**References**

9. Centers for Disease Control and Prevention(CDC) Phone: 800-CDC-INFO
10. National Cervical Cancer Coalition (NCCC) Phone: 800-685-5531
11. Cervical Cancer-Free Texas Website: www.cervicalcancerfreecoalition.org
12. The Immunization Partnership Website: www.immunizeusa.org Phone: 281-400-3689
13. Prevent Cancer Foundation - Think About the Link Website: https://www.mysocietysource.org/sites/HPV/ResourcesandEducation/SitePages/Home.aspx
14. ACS HPV Vaccination Roundtable Website: https://www.mdanderson.org/cancermoonshots/cancer-types/HPV_related_cancers.html
15. ACS HPV Vaccination Roundtable Email: HPVMoonShotTeam@mdanderson.org
16. Prevent Cancer Foundation - Think About the Link Email: HPVMoonShotTeam@mdanderson.org

**HPV Fact Sheet Contact**

**Office of Health Policy**
The University of Texas MD Anderson Cancer Center 7007 Bertner Ave., Unit 1677 Houston, TX 77030
**Website:** https://www.mdanderson.org/cancermoonshots/cancer-types/HPV_related_cancers.html
**Email:** HPVMoonShotTeam@mdanderson.org

**What can be done?**

- Encourage universal HPV vaccine series coverage for males and females ages 11 to 12.
- Encourage school-based vaccination programs.
- Provide HPV education and vaccination.
- Use reminders for doses 2 and 3.

Contact the following organizations for more information:

- **HPV-Related Cancers Moonshot** Website: http://www.cancermoonshots.org/cancer-types/hpv/
- **Centers for Disease Control and Prevention(CDC)** Website: www.cdc.gov/hpv Phone: 800-CDC-INFO
- **National Cervical Cancer Coalition (NCCC)** Website: www.nccc-online.org Phone: 800-685-5531
- **Cervical Cancer-Free Texas** Website: www.cervicalcancerfreecoalition.org
- **The Immunization Partnership** Website: www.immunizeusa.org Phone: 281-400-3689
- **Prevent Cancer Foundation - Think About the Link** Website: https://www.think-about-the-link/
- **ACS HPV Vaccination Roundtable** Website: https://www.mysocietysource.org/sites/HPV/ResourcesandEducation/SitePages/Home.aspx