HPV Vaccine

Human Papillomavirus Vaccine Recommendations

General Recommendations

- 9vHPV vaccine is recommended for routine vaccination of females and males at 11-12 years of age, but can start as early as 9 years of age.

- The 2-dose vaccination schedule is recommended for those who are:
  o Starting the HPV series at 9-14 years of age

- The 3-dose vaccination series is recommended for those who are:
  o 9-14 years of age who have already received two doses of HPV vaccine less than 5 months apart will require a third dose
  o Starting the series at age 15-26 years
  o Immunocompromised, regardless of age

Indications

9vHPV Vaccine

- Indicated for the prevention of cervical cancer, pre-cancers, genital warts, vulvar, and vaginal cancers.
- 9vHPV provides protection against the 9 HPV strains (6, 11, 16, 18, 31, 33, 45, 52, & 58) of cervical cancers, resulting in protection against more than 80% of all cervical cancers.

For more information on Human Papillomavirus vaccines or any other recommended vaccine, visit the Immunization Program website at [http://publichealth.lacounty.gov/ip/providers/B71.htm](http://publichealth.lacounty.gov/ip/providers/B71.htm) or call (213) 351-7800.
General Recommendations (continued):

Catch-up Vaccination
- Use recommended routine dosing intervals (see Schedule above) for vaccine series catch-up.

Persons vaccinated previously
- Persons who initiated vaccination with 9vHPV, 4vHPV, or 2vHPV before their 15th birthday, and received 2 doses (0, 6 – 12 months) of any HPV vaccine or 3 doses (0, 1 – 2, 6 months) of any HPV vaccine are considered adequately vaccinated.
- Persons who initiated vaccination on or after their 15th birthday and received 3 doses of any HPV vaccine are adequately vaccinated.
- 9vHPV should be used to continue or complete a vaccination series started with 4vHPV or 2vHPV.

Special Populations
- **History of sexual abuse or assault**: Routine vaccination is recommended for children with a history of sexual abuse or assault, beginning at age 9 years.
- **MSM**: Routine HPV vaccination is recommended for all males through age 26 years.
- **Transgender**: Routine HPV vaccination is recommended for all adolescents through age 26 years for those not adequately vaccinated.

Medical Conditions
- Persons with a history of immunocompromising conditions that might reduce cell-mediated immunity should receive 3 doses of HPV vaccine at 9 – 26 years of age.

Administration:
- Ideally, administration of the vaccine prior to potential exposure through sexual contact is recommended. However, vaccination of sexually active persons should still occur according to ACIP recommendations, if in the recommended age groups.
- There is no need to restart the vaccine series if the HPV vaccine schedule is interrupted.

Contraindications & Precautions
- Hypersensitivity such as a severe allergic reaction (e.g. anaphylaxis) after a previous dose of HPV vaccine or any vaccine component.
- HPV vaccines are not recommended for use in pregnant women; pregnancy testing is not needed before vaccination. The pregnancy registries for 4vHPV and 2vHPV have been closed in concurrence from FDA. Any exposure to 9vHPV vaccine during pregnancy should be reported to the Merck vaccine pregnancy registry:
  - 1-800-986-8999 (Merck for 9vHPV only)
- If a woman is found to be pregnant after initiating the HPV vaccine series, remaining doses should be delayed until after the pregnancy.
- Because some people may develop syncope, sometimes resulting in falling with injury, observe patients for 15 minutes after the vaccine has been administered.

Adverse Reactions
- **Injection site**: pain, redness, swelling.
- **Systemic**: fatigue, headache, myalgia (muscle pain), gastrointestinal symptoms, arthralgia (joint pain) and fainting (syncope).

Vaccine Storage and Handling
- Store Gardasil in the refrigerator between 35°F and 46°F (aim for 40°F).
- **Do not freeze** – discard if vaccine has been frozen.