

A Quick Look at Using Human Papillomavirus Vaccines (HPV)



Vaccine	HPV types	For Protection Against:	Approved for Ages:
2vHPV Cervarix® (GSK)	16, 18	Cervical cancer	Females only: 9-26 years
4vHPV Gardasil® (Merck)	6, 11, 16, 18	Cervical, vulvar, vaginal and anal cancers (including precancerous & dysplastic lesions) and genital warts	Females: 9-26 years
9vHPV Gardasil-9® (Merck)	6, 11, 16, 18, 31, 33, 45, 52, 58		Males: 9-21 years; if high risk 22-26 years (see "Indications for Use")
Indications for Use and Schedule <ul style="list-style-type: none"> Routinely administer to males & females aged 11-12 years Catch-up: females aged 13-26 years & males aged 13-21 years Vaccinate males aged 22-26 within a high risk group <ul style="list-style-type: none"> Immunocompromised due to infection (including HIV), disease or medication Men having sex with men Consider vaccination for all other males aged 22-26 years Recommended Schedule: 0, 1-2, 6 months <ul style="list-style-type: none"> Recommended schedule preferred; ensure minimum intervals are met: <ul style="list-style-type: none"> 4 weeks between dose 1 & 2; 12 weeks between dose 2 & 3; 6 months between dose 1 & 3 		Vaccine Administration <ul style="list-style-type: none"> Only administer as an Intramuscular (IM) injection in the deltoid of the arm (preferred) or anterolateral thigh 1-1.5 inch needle; 22-25 gauge Use professional judgment when selecting needle length Can be given simultaneously with other vaccines 	
		Storage and Handling <ul style="list-style-type: none"> Store in a refrigerator unit between 36°-46° F (2°-8°C) <ul style="list-style-type: none"> Stand-alone storage units preferred Do not freeze vaccine Keep in the original box Shake well before use 	

Additional Vaccine Recommendation Points

- Series may be started at age 9-10 years at the provider's discretion.
 - Give HPV vaccine beginning at age 9 years to children/youth with any history of sexual abuse/assault & without a complete series
- To ensure the most benefit from HPV vaccination, persons should complete all 3 doses before sexual activity begins.
 - However, sexually active persons age 9 through 26 years should also be vaccinated
- Persons turning 27 years of age who have started the HPV series but who have not completed it, can complete the series using the recommended intervals between doses, even though this means that the series is completed after 26 years of age.
 - *HPV vaccine may not be a covered benefit after 26 years of age
- Vaccines may be given to persons who:
 - Have genital warts
 - Are immunosuppressed
 - Are breastfeeding
 - Have a positive HPV test
 - Have an equivocal or abnormal Pap test
 - Are currently taking hormonal contraceptive measures

CONTRAINDICATIONS

- Allergic reaction to a previous dose of HPV vaccine or another component of the vaccine.
- 4vHPV and 9vHPV are contraindicated for persons with a history of immediate hypersensitivity to yeast.
- 2vHPV in prefilled syringes is contraindicated for persons with anaphylactic latex allergy.

PRECAUTIONS

- Moderate or severe illness with or without fever.
- Pregnancy (Pregnancy testing is not needed before vaccination).
 - If a woman is pregnant after starting the vaccine series, remaining doses should be delayed until after the pregnancy.
 - If a vaccine dose has been administered during pregnancy, there is no indication for medical intervention.
 - Report vaccination of pregnant women with 9vHPV to the registry at 800-986-8999. 2vHPV & 4vHPV registries are closed.

FURTHER POINTS

- If the HPV vaccine previously administered is unknown or not available, do not miss an opportunity; complete series with any appropriate brand; Females: 2vHPV/4vHPV/9vHPV and Males: 4vHPV/9vHPV.
- If the HPV vaccine schedule is interrupted, the series does not need to be restarted.
- There is no current recommendation for revaccinating persons who previously received 2vHPV or 4vHPV.
- Due to increased reports of syncope (fainting) in adolescents following vaccination, a 15-20 minute observation period is recommended for adolescents after receiving any vaccine.
- A separate Vaccine Information Statement (VIS) for Cervarix (2vHPV), Gardasil (4vHPV) and Gardasil-9 (9vHPV), with information about Michigan Care Improvement Registry (MCIR), can be found at <http://www.michigan.gov/immunize> or your local health dept.
- Document Gardasil-9 as "HPV9" in MCIR & as "9vHPV" on the vaccine administration record (VAR) & immunization record card.
- Document Gardasil as "HPV4" in MCIR & as "4vHPV" on the VAR & immunization record card.
- Document Cervarix as "HPV2" in MCIR & as "2vHPV" on the VAR & immunization record card.

Publicly purchased HPV vaccine can be administered to males & females, aged 9 through 18 years via the Vaccines for Children (VFC) Program. Eligible children include those who are uninsured, underinsured, Medicaid eligible, Native American or Alaskan Natives. Contact your local health department for more information. *Through the Michigan Adult Vaccine Replacement program (MI-VRP) and through Adult Medicaid, males and females aged 19 through 26 years based on the recommendations above can receive HPV vaccine. Under MI-VRP, males aged 22 through 26 years can receive HPV vaccine if within a high risk group. For persons covered by Adult Medicaid, private stock should be used and Medicaid billed. Medicaid and MI-VRP will not cover an HPV dose given at/after age 27 years. For additional information: MMWR: Use of 9-Valent HPV vaccine: Updated HPV Vaccination Recommendation of the ACIP, March 27, 2015 at www.cdc.gov/vaccines. Updates of this form will be posted at <http://www.michigan.gov/immunize>