



Appendix A: HPV Vaccines Descriptions^{1,2,3}

Trade Name ^A	Gardasil [®]		Cervarix [®]	
Generic Name ^B	Quadrivalent vaccine (HPV types 6, 11, 16 and 18)		Bivalent vaccine (HPV types 16 and 18)	
Vaccine Type	Recombinant (AAHS Adjuvant)		Recombinant (AS04 Adjuvant)	
Indication ^C	<i>For the prevention of:</i>	<i>Caused by:</i>	<i>For the prevention of:</i>	<i>Caused by:</i>
	Females aged 9 to 45		Females aged 9 to 45	
	cervical, vulvar and vaginal cancer	HPV types 16 and 18	cervical cancer	HPV types 16 and 18
	genital warts (condyloma acuminata)	HPV types 6 and 11	CIN grade 1, 2, and 3	
	AIS	HPV types 6, 11, 16 and 18	AIS	
	CIN grade 2 and 3			
	VIN grade 2 and 3			
	VaIN grade 2 and 3			
	CIN grade 1			
	Females aged 9 to 26			
	anal cancer	HPV types 16 and 18		
	AIN grade 1, 2, and 3	HPV types 6, 11, 16 and 18		
	Males aged 9 to 26			
	anal cancer	HPV types 16 and 18		
	genital warts (condyloma acuminata)	HPV types 6 and 11		
AIN grade 1, 2, and 3	HPV types 6, 11, 16 and 18			
Dosage & Schedule	If aged 9 to 14 years old at time of receipt of 1st dose 2 doses: 0.5 mL IM at 0 and 6 months ^D If aged ≥ 15 years old at time of receipt of 1st dose (or aged 9 to 14 and not immunocompetent) 3 doses: 0.5 mL IM at 0, 2, and 6 months		3 doses of 0.5 mL IM at 0, 1, and 6 months ^{E, F}	
Costs	Females born in 1994 or later = publicly funded (school-based program) Others^G = patient pay, about \$500 for the 3 doses		Females aged ≤ 26 years and born before 1994 = publicly funded (one-time program) Others^G = patient pay, about \$300 for the 3 doses	

Abbreviations: AAHS – amorphous aluminum hydroxyphosphate sulfate; AIN – anal intraepithelial neoplasia; AIS – cervical adenocarcinoma in situ; ASO4 – amorphous aluminum hydroxyphosphate sulfate; CIN – cervical intraepithelial neoplasia, HPV – human papillomavirus; IM – intramuscular; VaIN – vaginal intraepithelial neoplasia; VIN – vulvar intraepithelial neoplasia.

Notes:

- ^A Manufacturers have provided evidence of vaccine efficacy and safety when used in accordance with product monographs; consult the most current monograph. For females previously exposed to HPV, the risks or benefits of being vaccinated have not been demonstrated.
- ^B Routine monitoring and Papanicolaou smear tests should continue to be performed as per guidelines regardless of vaccination.
- ^C The safety and efficacy of GARDASIL[®] have not been evaluated in children aged < 9 years or in adults aged > 45 years. The safety and effectiveness of CERVARIX[®] have not been established in children aged < 9 years.
- ^D Girls who are known to have immune system defects associated with solid organ transplant, stem cell transplant or HIV infection should receive a 3 dose HPV schedule at 0, 2 and 6 months.
- ^E The minimum interval between the 1st and 2nd dose is 4 weeks, the minimum interval between the 2nd and 3rd dose is 12 weeks with a minimum interval of 20 weeks between the 1st and 3rd dose. Minimum interval guidance is provided for use in specific circumstances where the patient cannot be immunized on the recommended schedule, and is not the preferred schedule.
- ^F Whenever possible, the same HPV vaccine (CERVARIX[®] or GARDASIL[®]) should be used to complete a vaccine series. If the brand of the previously received doses is not known, either vaccine may be used to complete series. Both vaccines provide protection against HPV types 16 and 18 and therefore patients are likely to achieve protective antibody level against these HPV types. If less than 3 doses of quadrivalent HPV vaccine are administered, protection against HPV types 6 and 11 (genital warts) cannot be assured.
- ^G Some private health insurance plans cover the cost of the vaccine.

References

1. BC Centre for Disease Control. Communicable Disease Control Immunization Program Section VII – Biological Products. August 2013.
2. Merck Canada Inc. Product monograph: Gardasil[®] [Quadrivalent Human Papillomavirus (Types 6, 11, 16, 18) Recombinant Vaccine]. 2013 03/14.
3. GlaxoSmithKline Inc. Product monograph: CERVARIX[®] Human Papillomavirus vaccine Types 16 and 18 (Recombinant, AS04 adjuvanted). 2013 05/02.