

Injectable Vaccine Administration for Adults Aged 19 Years and Older¹

Vaccine	Age/Reminders	Route	Contraindications ²
Tetanus, diphtheria (Td)	Ages 7 years & older; booster dose every 10 years after completion of pertussis-containing series	IM	Anaphylactic reaction to prior dose or component; (for Tdap) encephalopathy without other cause within 7 days of a pertussis-containing vaccine
Tetanus, diphtheria, pertussis (Tdap) ³	Give a single dose for all ages, including those aged 65 years & older; 1 dose during each pregnancy		
Hepatitis B (hep B)	Use Pediatric formulation for persons aged 19 years & younger when indicated; use Adult formulation for persons aged 20 years & older when indicated	IM	Anaphylactic reaction to prior dose or component (baker's yeast)
Hepatitis A (hep A)	Give 2 doses when indicated; doses must be at least 6 months apart; use adult formulation for ages 19 years & older	IM	Anaphylactic reaction to prior dose or component; hypersensitivity to alum; Havrix®: 2-phenoxyethanol
Measles, Mumps, Rubella (MMR)	Give 1 dose if born in 1957 or later; give 2 doses to adults at high risk	SC	Anaphylactic reaction to prior dose or component (neomycin, gelatin); pregnancy; immune suppression
Varicella (Var)	Give 2 doses at least 4 weeks apart to adults without evidence of immunity (e.g. born in U.S. before 1980, healthcare provider verification of disease)	SC	Anaphylactic reaction to prior dose or component (neomycin, gelatin); pregnancy; immune suppression
Inactivated Influenza ⁴	Give 1 dose every flu season (July 1 st through June 30 th)	IM or ID	Anaphylactic reaction to prior dose or component
Pneumococcal Conjugate (PCV13) ⁵	Ages 65 years & older give 1 dose if previously unvaccinated; ages 19-64 years if previously unvaccinated may need 1 dose based on risk condition	IM	Anaphylactic reaction to prior dose or component
Pneumococcal Polysaccharide (PPSV23) ⁵	Ages 65 years & older give 1 dose; ages 2-64 years may need 1-2 doses based on risk condition; minimum interval between doses is 5 years for all ages	IM or SC	Anaphylactic reaction to prior dose or component
Meningococcal Conjugate (MenACWY) ⁶	Ages 2 months-55 years when indicated; preferred for ages 56 years & older who had previous MenACWY dose or if multiple doses are needed (e.g., asplenia); not routinely recommended for persons aged 21 years & older without a risk condition present	IM	Anaphylactic reaction to prior dose or component
Meningococcal B (Men B)	Ages 10 years & older when indicated; may vaccinate ages 16-23 years	IM	Anaphylactic reaction to prior dose or component
Human Papillomavirus (9vHPV) ⁷	2- or 3-dose series depending on person's age and health status; catch up females through age 26 years; catch up males through age 21 years and high-risk males 22-26 years (immunocompromised, men who have sex with men, transgender)	IM	Anaphylactic reaction to prior dose or component (baker's yeast); not recommended for use during pregnancy
Herpes Zoster (HZV)	Adults age 60 years and older	SC	Anaphylactic reaction to prior dose or component (neomycin, gelatin); pregnancy; immune suppression

Route	IM = Intramuscular	SC = Subcutaneous	ID = Intradermal
Site	Deltoid (preferred) or Anterolateral Thigh	Lateral Upper Arm or Anterolateral Thigh Area	Area over Deltoid
Needle length/gauge	1-1.5 inches/22-25 gauge	5/8 inch/23-25 gauge	For ID flu vaccine, only use manufacturer's prefilled syringe

¹ For information on travel vaccines, refer to: <http://wwwnc.cdc.gov/travel>. For more information on vaccines for adults, including *Haemophilus influenzae* type B (Hib), refer to the "Recommended Adult Immunization Schedule" including footnotes at www.cdc.gov/vaccines.

² See package inserts for complete component listing (by brand). Refer to ACIP General Recommendations on Immunization and the "Recommended Adult Immunization Schedule" for a comprehensive list of vaccine contraindications and precautions at www.cdc.gov/vaccines.

³ Tdap licensure ages: Boostrix® (GSK) ages 10 years and older; Adacel® (Sanofi) for ages 10-64 years. Either brand may be used for children aged 7-10 years; for persons 65 years & older, Boostrix® is preferred, but if unavailable Adacel® may be used.

⁴ Age indications for Influenza Vaccines vary by brand. For more information on flu vaccines, refer to package inserts, www.cdc.gov/flu, or www.michigan.gov/flu → Current Flu Season Vaccination Materials for Health Care Professionals → Influenza Vaccine Updates → Seasonal Influenza Vaccine Presentation Chart.

⁵ PCV13 should be administered prior to PPSV23; use a minimum interval of 8 weeks between PCV13 (if given 1st) and PPSV23. If PPSV23 is given 1st, use minimum interval of 1 year before administering PCV13. Refer to the "Recommended Adult Immunization Schedule" including footnotes at www.cdc.gov/vaccines.

⁶ MenACWY licensure ages: Menveo® (Novartis) ages 2 months-55 years; Menactra® (Sanofi Pasteur) ages 9 months-55 years. When indicated, MPSV4 (Meningococcal Polysaccharide Vaccine) is preferred for ages 56 years & older if no previous history of meningococcal vaccination and anticipate needing only 1 dose (i.e., travel or disease outbreak).

⁷ 9vHPV is the only HPV vaccine being distributed in the U.S. The last 2vHPV doses expired November 2016, and the last 4vHPV doses will expire May 2017.