

Injectable Vaccine Administration: Ages Birth-18 Years¹

Vaccine	Age/Reminders	Route ²	Contraindications ³
Diphtheria, Tetanus, Pertussis (DTaP)	Ages 6 weeks-6 years No DTaP doses after age 7 years & older	IM	Anaphylactic reaction to prior dose or component; encephalopathy without other cause within 7 days of a pertussis-containing vaccine.
Tetanus, Diphtheria, Pertussis (Tdap)	Routinely given at ages 11-12 years Catch-up all adolescents aged 13 years & older without a previous dose. Some children aged 7-10 years may need 1 Tdap dose	IM	Anaphylactic reaction to prior dose or component; encephalopathy without other cause within 7 days of a pertussis-containing vaccine.
Tetanus, Diphtheria (Td)	For persons aged 7 years and older who have a contraindication to pertussis vaccine <u>or</u> have received a previous dose of Tdap	IM	Anaphylactic reaction to prior dose or component
<i>Haemophilus influenzae</i> B (Hib) ¹	No routine doses after age 59 months	IM	Anaphylactic reaction to prior dose or component
Pneumococcal conjugate (PCV13) ¹	No routine doses after age 59 months	IM	Anaphylactic reaction to prior dose or component
Hepatitis B (hep B)	1 st dose at birth; last dose at/after age 6 months	IM	Anaphylactic reaction to a prior dose or component (baker's yeast)
Inactivated Polio (IPV)	Give last dose at/after age 4 years; 6 month minimum interval between next to last & last dose	SC IM	Anaphylactic reaction to a prior dose or component (neomycin, streptomycin, polymyxin B)
Measles, Mumps, Rubella (MMR)	1 st dose at/after age 12 months; 4 week minimum interval between doses (all ages)	SC	Anaphylactic reaction to a prior dose or component (neomycin or gelatin); pregnancy
Varicella (Var)	1 st dose at/after age 12 months Minimum interval between doses varies: Aged 12 months-12 years = 3 months Aged 13 years & older = 4 weeks	SC	Anaphylactic reaction to a prior dose or component (neomycin or gelatin); pregnancy
Inactivated Influenza (IIV3/IIV4)	Ages 6 months & older Correct brand to use and doses needed are based on person's age and vaccine history	IM	Anaphylactic reaction to a prior dose or component
Hepatitis A (hep A)	1 st dose at/after age 12 months; 2 nd dose at least 6 months later Catch up all children through age 18 years	IM	Anaphylactic reaction to prior dose or component; hypersensitivity to alum (Havrix [®] : 2-phenoxyethanol)
Meningococcal Conjugate (MCV4) ^{1,4}	Routinely given at ages 11-12 years; Booster dose at age 16 years	IM	Anaphylactic reaction to a prior dose or component
Human Papillomavirus (HPV2/HPV4)	Routinely given at ages 11-12 years HPV4 (Gardasil): females and males HPV2 (Cervarix): females only	IM	Anaphylactic reaction to a prior dose or component; (HPV4: baker's yeast); Not indicated for use in pregnancy

Route	IM = Intramuscular	SC = Subcutaneous
Site	Anterolateral Thigh or Deltoid	Anterolateral Thigh or Lateral Upper Arm
Needle length/gauge	1-1.5 inches/22-25 gauge	5/8 inch/23-25 gauge

¹ Refer to Recommended Childhood Immunization and Catch-up Schedules at <http://www.cdc.gov/vaccines>; high risk children may need additional doses of pneumococcal conjugate (PCV13), pneumococcal polysaccharide (PPSV23), meningococcal conjugate (MCV4) or *Haemophilus influenzae* type b (Hib); refer to the footnotes in the "Recommended Immunization Schedules for Persons Aged 0 through 18 Years"

² Professional judgment is appropriate when selecting site, needle length and needle gauge for use in all children, especially small infants or larger children. Vaccines should never be administered in buttocks. Refer to "Giving all the Doses" (by age group) at www.aimtoolkit.org

³ See package insert for complete component listing (by brand); Refer to ACIP General Recommendations for a comprehensive list of vaccine contraindications and precautions at www.cdc.gov/vaccines

⁴ MCV4 licensure ages: Menactra[®] (sanofi pasteur) aged 9 months-55 years & Menveo[®] (Novartis) aged 2 months-55 years; MenHibrix[®] (Hib-MenCY - GlaxoSmithKline) aged 6 weeks-18 months and indicated for high risk infants