

Injectable Vaccine Administration for Children Birth-6 years¹

Vaccine	Age/Reminders	Route	Site ²	Needle ³	Contraindications ⁴
Diphtheria, Tetanus, Pertussis (DTaP)	Ages 6 weeks-6 years	IM	Anterolateral Thigh or Deltoid	1"-1.5" 22-25 g	Anaphylactic reaction to prior dose or component; encephalopathy without other cause within 7 days of a pertussis-containing vaccine
<i>Haemophilus influenzae</i> B (Hib)	No routine doses after age 59 months	IM	Anterolateral Thigh or Deltoid	1"-1.5" 22-25 g	Anaphylactic reaction to prior dose or component
Pneumococcal conjugate (PCV13)	No routine doses after age 59 months (Certain children at increased risk for disease may need one dose at ages 5 through 18 years)	IM	Anterolateral Thigh or Deltoid	1"-1.5" 22-25 g	Anaphylactic reaction to prior dose or component
Hepatitis B (hep B)	1 st dose at birth; last dose at/after 6 months	IM	Anterolateral Thigh or Deltoid	1"-1.5" 22-25 g	Anaphylactic reaction to a prior dose or component (baker's yeast)
Inactivated Polio (IPV)	Give last dose at/after age 4 years; Minimum interval is 6 months between next to last & last dose	SC	Anterolateral Thigh or Lateral Upper Arm	5/8" 23-25 g	Anaphylactic reaction to a prior dose or component (neomycin, streptomycin, polymyxin B)
		IM	Anterolateral Thigh or Deltoid	1"-1.5" 22-25 g	
Measles, Mumps, Rubella (MMR)	1 st dose at/after age 12 months; 4 week minimum interval between two doses (all ages)	SC	Anterolateral Thigh or Lateral Upper Arm	5/8" 23-25 g	Anaphylactic reaction to a prior dose or component (neomycin or gelatin); pregnancy
Varicella (Var)	1 st dose at/after age 12 months; 3 month minimum interval between two doses (ages 12 mo-12 yrs)	SC	Anterolateral Thigh or Lateral Upper Arm	5/8" 23-25 g	Anaphylactic reaction to a prior dose or component (neomycin or gelatin); pregnancy
Inactivated Influenza (TIV)	Ages 6 months and older; brand to use based on age	IM	Anterolateral Thigh or Deltoid	1"-1.5" 22-25 g	Anaphylactic reaction to a prior dose or component
Hepatitis A (hep A)	1 st dose at/after age 12 months 2 nd dose 6 months later	IM	Anterolateral Thigh or Deltoid	1"-1.5" 22-25 g	Anaphylactic reaction to prior dose or component; hypersensitivity to alum (Havrix [®] : 2-phenoxyethanol)

¹ Refer to Recommended Childhood Immunization and Catch-up Schedules (www.cdc.gov/vaccines) for further information

² Vaccines should never be administered in the buttocks; deltoid muscle in children 18 months & older (if adequate muscle mass) is an option for IM injections.

³ Professional judgment is appropriate when selecting needle length for use in all children, especially small infants or larger children.

⁴ See package insert for complete contraindication/component listing; may vary by brand

Injectable Vaccines for Selected Populations¹

Vaccine	Recommendations for use through age 18 years	Route	Site ²	Needle Length ³	Contraindications ⁴
Meningococcal Conjugate (MCV4) ⁵	For children aged 9 months through 18 years at high risk for disease Routinely given to adolescents aged 11-12 years with booster dose at age 16 years	IM	Anterolateral Thigh or Deltoid	1"-1.5" 22-25 g	Anaphylactic reaction to prior dose or component
Pneumococcal polysaccharide (PPSV23) ⁶	For children aged 2 through 18 years at high risk for disease Given after completion of an age-appropriate PCV series Minimum interval of 8 weeks between PCV and PPSV23	IM	Anterolateral Thigh or Deltoid	1"-1.5" 22-25 g	Anaphylactic reaction to prior dose or component
		SC	Anterolateral Thigh or Lateral Upper Arm	5/8" 23-25g	

¹ Refer to Recommended Childhood Immunization Schedules (www.cdc.gov/vaccines) for information on the selected populations

² Vaccines should never be administered in buttocks; deltoid muscle in children age 18 months & older (if adequate muscle mass) is an option for IM injections.

³ Professional judgment is appropriate when selecting needle length for use in all children, especially small infants or larger children

⁴ See package insert for complete contraindication/component listing; components may vary by brand used

⁵ MCV4 Menveo[®] (Novartis) is licensed for ages 2 through 55 years and Menactra[®] (sanofi pasteur) is licensed for ages 9 months through 55 years
Refer to "A Quick Look at using Meningococcal Conjugant Vaccines (MCV4) at www.michigan.gov/immunize for list of high risk groups

⁶ Refer to: PPSV23: Vaccination and Revaccination at www.michigan.gov/immunize for a list of high risk groups