

# Injectable Vaccine Administration for Children Birth-6 years

Vaccine	Age/Reminders	Route	Site $\alpha$	Needle*	Contraindications $\oplus$
Diphtheria, Tetanus, Pertussis (DTaP)	Ages 6 weeks-6 years	IM	Anterolateral Thigh <b>or</b> Deltoid $\pm$	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 <b>or</b> Deltoid	1"-1.5" 22-25 g	Anaphylactic reaction to prior dose or component
Pneumococcal conjugate (PCV13)	No routine doses after age 59 months	IM	Anterolateral Thigh <b>or</b> Deltoid	1"-1.5" 22-25 g	Anaphylactic reaction to prior dose or component
Hepatitis B (hep B)	1 <sup>st</sup> dose at birth; last dose at/after 6 months	IM	Anterolateral Thigh <b>or</b> 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 yrs · Minimum interval at least 6 months between doses 3-4 and, if needed, doses 4-5; If only 3 doses needed, 6 months between next to last and last dose	SC	Anterolateral Thigh <b>or</b> Lateral Upper Arm	5/8" 23-25 g	Anaphylactic reaction to a prior dose or component (neomycin, streptomycin, polymyxin B)
		IM	Anterolateral Thigh <b>or</b> Deltoid	1"-1.5" 22-25 g	
Measles, Mumps, Rubella (MMR)	1 <sup>st</sup> dose at/after age 12 mo; 4 week interval between two doses (all ages)	SC	Anterolateral Thigh <b>or</b> Lateral Upper Arm	5/8" 23-25 g	Anaphylactic reaction to a prior dose or component (neomycin or gelatin); pregnancy
Varicella (Var)	1 <sup>st</sup> dose at/after age 12 mo; 3 month interval between doses (ages 12 mo-12 yrs)	SC	Anterolateral Thigh <b>or</b> 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 <b>or</b> Deltoid	1"-1.5" 22-25 g	Anaphylactic reaction to a prior dose or component (eggs)
Hepatitis A (hep A)	1 <sup>st</sup> dose at/after age 12 mo 2 <sup>nd</sup> dose 6 months later	IM	Anterolateral Thigh <b>or</b> Deltoid	1"-1.5" 22-25 g	Anaphylactic reaction to prior dose or component; hypersensitivity to alum (Havrix <sup>®</sup> : 2-phenoxyethanol)

$\alpha$  Vaccines should never be administered in the buttocks.

$\oplus$  See package insert for complete contraindication/component listing; may vary by brand

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

$\pm$  Use of the deltoid muscle in children 18 months and older (if adequate muscle mass is present) is an option for IM injections.

February 13, 2011

# Injectable Vaccines for Selected Populations\*\*

Vaccine	Recommendations for use and age	Route	Site ☒	Needle Length*	Contraindications⊕
Meningococcal Conjugate (MCV4)	<ul style="list-style-type: none"> <li>• For children 2-10 yrs who are at high risk for meningococcal disease</li> <li>• Routinely given to adolescents at ages 11-12 years with booster dose at age 16 years</li> </ul>	IM	Anterolateral Thigh <b>or</b> Deltoid ±	1"-1.5" 22-25 g	Anaphylactic reaction to prior dose or component
Pneumococcal polysaccharide (PPSV23)	<ul style="list-style-type: none"> <li>• For children 2 yrs and older at high risk for invasive pneumococcal disease</li> <li>• Given after completion of an age-appropriate PCV series - Minimum interval of 8 weeks between PCV and PPSV23</li> </ul>	IM	Anterolateral Thigh <b>or</b> Deltoid ±	1"-1.5" 22-25 g	Anaphylactic reaction to prior dose or component
		SC	Anterolateral Thigh <b>or</b> Lateral Upper Arm	5/8" 23-25g	

☒ Vaccines should never be administered in the buttocks.

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

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

» MCV4 vaccine is preferred over Meningococcal polysaccharide (MPSV4) for persons age 2 through 55 years. However, if meningococcal vaccine is indicated, and there is a contraindication to MCV4 or, if MCV4 is not available, MPSV4 may be administered. Both brands of MCV4, Menveo® (Novartis) and Menactra® (sanofi pasteur) are licensed for persons 2-55 years of age.

± Use of the deltoid muscle in children 18 months and older (if adequate muscle mass is present) is an option for IM injections.

\*\* Refer to Recommended Childhood and Adolescent Immunization Schedule (available in Child/Adolescent Immunization Section of the AIM Kit) for information on the selected populations.



February 13, 2011