

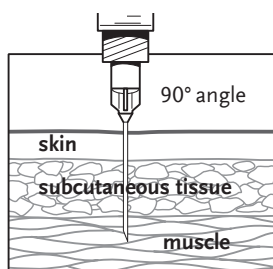
# Administering Vaccines: Dose, Route, Site, and Needle Size

Vaccine	Dose	Route	Injection Site and Needle Size		
Diphtheria, Tetanus, Pertussis (DTaP, DT, Tdap, Td)	0.5 mL	IM	<b>Subcutaneous (Subcut) injection</b> Use a 23–25 gauge needle. Choose the injection site that is appropriate to the person's age and body mass.		
<i>Haemophilus influenzae</i> type b (Hib)	0.5 mL	IM			
Hepatitis A (HepA)	≤18 yrs: 0.5 mL ≥19 yrs: 1.0 mL	IM	<b>AGE</b>	<b>NEEDLE LENGTH</b>	<b>INJECTION SITE</b>
Hepatitis B (HepB) <i>Persons 11–15 yrs may be given Recombivax HB (Merck) 1.0 mL adult formulation on a 2-dose schedule.</i>	≤19 yrs: 0.5 mL ≥20 yrs: 1.0 mL	IM	Infants (1–12 mos)	5/8"	Fatty tissue over anterolateral thigh muscle
Human papillomavirus (HPV)	0.5 mL	IM	Children 12 mos or older, adolescents, and adults	5/8"	Fatty tissue over anterolateral thigh muscle or fatty tissue over triceps
Influenza, live attenuated (LAIV)	0.2 mL (0.1 mL in each nostril)	Intranasal spray	<b>Intramuscular (IM) injection</b> Use a 22–25 gauge needle. Choose the injection site and needle length that is appropriate to the person's age and body mass.		
Influenza, inactivated (IIV); recombinant (RIV), for ages 18 years and older	6–35 mos: 0.25 mL ≥3 yrs: 0.5 mL	IM	<b>AGE</b>	<b>NEEDLE LENGTH</b>	<b>INJECTION SITE</b>
Influenza (IIV) Fluzone Intradermal, for ages 18 through 64 years	0.1 mL	ID	Newborns (1st 28 days)	5/8"	Anterolateral thigh muscle
Measles, Mumps, Rubella (MMR)	0.5 mL	Subcut	Infants (1–12 mos)	1"	Anterolateral thigh muscle
Meningococcal conjugate (MCV4 [MenACWY])	0.5 mL	IM	Toddlers (1–2 years)	1–1¼" 5/8–1"	Anterolateral thigh muscle or deltoid muscle of arm
Meningococcal serogroup B (MenB)	0.5 mL	IM	Children and teens (3–18 years)	5/8–1"* 1–1¼"	Deltoid muscle of arm or anterolateral thigh muscle
Meningococcal polysaccharide (MPSV)	0.5 mL	Subcut	Adults 19 years or older		
Pneumococcal conjugate (PCV)	0.5 mL	IM	Female or male <130 lbs	5/8–1"*	Deltoid muscle of arm
Pneumococcal polysaccharide (PPSV)	0.5 mL	IM or Subcut	Female or male 130–152 lbs	1"	Deltoid muscle of arm
Polio, inactivated (IPV)	0.5 mL	IM or Subcut	Female 153–200 lbs Male 130–260 lbs	1–1½"	Deltoid muscle of arm
Rotavirus (RV)	Rotarix: 1.0 mL Rotateq: 2.0 mL	Oral	Female 200+ lbs Male 260+ lbs	1½"	Deltoid muscle of arm
Varicella (Var)	0.5 mL	Subcut			
Zoster (Zos)	0.65 mL	Subcut			
<b>Combination Vaccines</b>					
DTaP-HepB-IPV (Pediarix) DTaP-IPV/Hib (Pentacel) DTaP-IPV (Kinrix; Quadracel) Hib-HepB (Comvax) Hib-MenCY (MenHibrix)	0.5 mL	IM			
MMRV (ProQuad)	≤12 yrs: 0.5 mL	Subcut			
HepA-HepB (Twinrix)	≥18 yrs: 1.0 mL	IM			

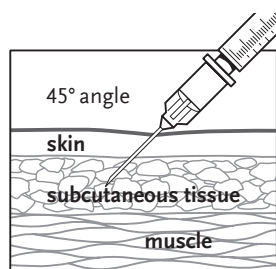
\* A 5/8" needle may be used for patients weighing less than 130 lbs (<60 kg) for IM injection in the deltoid muscle **only** if the skin stretched tight, the subcutaneous tissue is not bunched, and the injection is made at a 90-degree angle.

**NOTE:** Always refer to the package insert included with each biologic for complete vaccine administration information. CDC's Advisory Committee on Immunization Practices (ACIP) recommendations for the particular vaccine should be reviewed as well. Access the ACIP recommendations at [www.immunize.org/acip](http://www.immunize.org/acip).

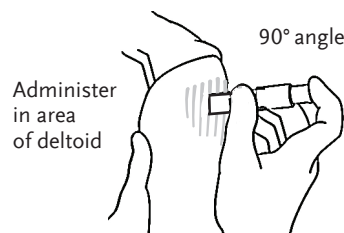
**Intramuscular (IM) injection**



**Subcutaneous (Subcut) injection**



**Intradermal (ID) administration of Fluzone ID vaccine**



**Intranasal (NAS) administration of Flumist (LAIV) vaccine**

