How to Administer IM (Intramuscular) Injections

Vaccines given IM (intramuscular) route: DTaP, DT, Hib, hepA, hepB, HPV, IIV, MCV, PCV, rabies, and Td, Tdap.

Administer IPV and PPSV vaccines either via IM or SQ (subcutaneous) route.

Patient's age	Site (see illustrations)	Needle size*
Newborn/infant (Birth -1 year)	Anterolateral thigh	 1" needle 5/8" in premies or newborns (0-28 days old) if muscle mass inadequate¹
Toddler (1-3 years)	Anterolateral thigh preferredDeltoid when adequate	 1" – 1¼" needle for thigh 5/8" – 1" needle for deltoid
Children (3-11 years)	Deltoid Anterolateral thigh	 5/8"-1" needle for deltoid 1"-1¼" needle for thigh
Adolescents/adults ² (11 years and older)		 1" – 1½" needle² 23-25 gauge needle

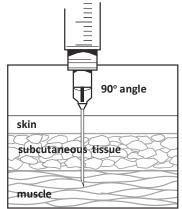
¹ A ½" needle may be used only if the skin is stretched tight, the subcutaneous tissue is not bunched, and injection is made at a 90° angle.

² A ½" needle is sufficient in adults weighing less than 130 lbs (60 kg). A 1" needle is sufficient in adults weighing 130–152 lbs (60–70 kg).

A 1–1½" needle is recommended in women weighing 152–200 lbs (70–90 kg) and men weighing and men weighing 260 lbs (70–118 kg).

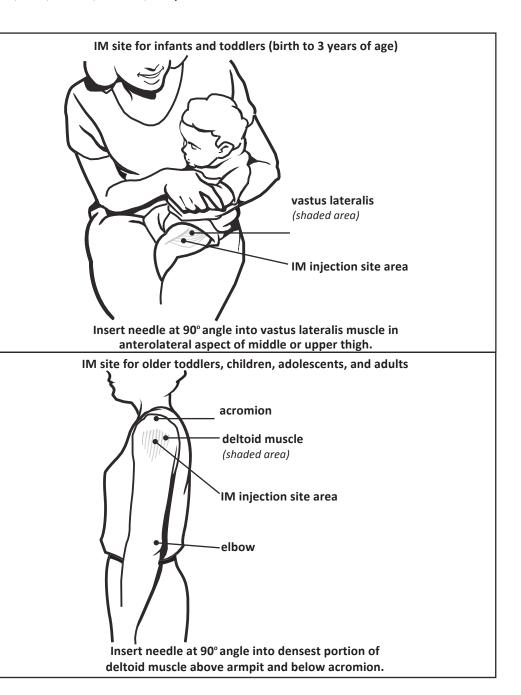
Needle insertion

- Use a needle long enough to reach deep into the muscle.
- Identify the thickest part of the deltoid muscle by having the person raise their arm to define the muscle. Once defined, have patient relax arm and proceed.
- Insert needle at a 90° angle to the skin with a quick thrust.
- Retain pressure on skin around injection site with thumb and index finger while needle is inserted.
- Aspiration is not necessary.
- Multiple injections given in the same extremity should be separated as far as possible (preferably at least 1" apart).



Sources: Red Book 2012, American Academy of Pediatrics and CDC General Recommendations on Immunization, 2011





How to Administer SQ (Subcutaneous) Injections

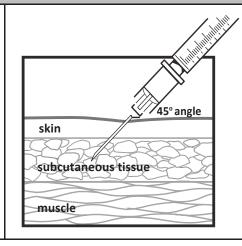
Vaccines given SQ (subcutaneous) route: MMR, MMRV, MPSV, VAR, and ZOS via.

Administer IPV and PPSV vaccines either via IM (intramuscular) or SQ route.

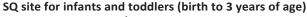
Patient's age	Site (see illustrations)	Needle size*
Infants (Birth -1 year)	Fatty area of the thigh	5/8" needle23-25 gauge
Toddlers (1-3 years)	Fatty area of the thigh or outer aspect of upper arm	• 5/8" needle • 23-25 gauge
Children (3-11 years)	Fatty area of the thigh or outer aspect of upper arm	5/8" needle23-25 gauge
Adolescents/adults (11 years and older)	Outer aspect of upper arm	5/8" needle23-25 gauge

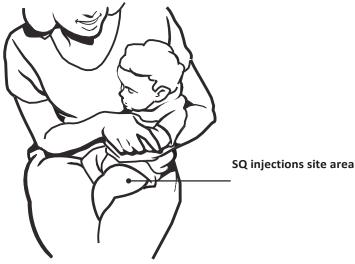
Needle insertion

- Insert needle at an 45° angle to the skin.
- Pinch up on SQ tissue to prevent injecting into muscle.
- Aspiration before injection is not required.
- Multiple injections given in the same extremity should be separated as far as possible (preferably at least 1" apart).



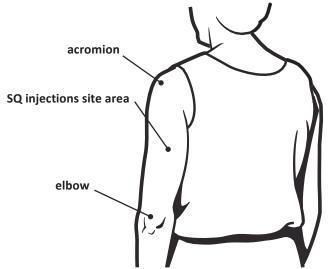
Sources: Red Book 2012, American Academy of Pediatrics and CDC General Recommendations on Immunization, 2011





Insert needle at 45° angle into fatty area of anterolateral thigh. Make sure you pinch up on SQ tissue to prevent injecting into muscle.

SQ site for older toddlers, children, adolescents and adults



Insert needle at 45° angle into outer aspect of upper arm. Make sure you pinch up on SQ tissue to prevent injecting into muscle.

