Guidelines for Intramuscular and Subcutaneous Injection Administration

		Intramuscu	lar Injections ²		
SITE ¹	Infant	Toddler	Preschool-Aged	School-Aged	Adolescent/Adult
Vastus lateralis	Needle length: 5/8	Needle length: 5/8 -	Needle length: 1	Needle length: 1	Needle length:1-3
	inch	1 inch	inch	inch	inches
	Volume: 0.5 mL	Volume: 0.5 – 1 mL	Volume: 1 mL	Volume: 1.5 –2 mL	Volume: 1-5 mL
	**recommended				
	for infants < 7				
	months of age				
Ventrogluteal	Needle length:5/8	Needle length: 5/8 -	Needle length: 1	Needle length: 1-	Needle length: 1-3
	inch	1 inch	inch	1.5 inches	inches
	Volume: 0.5 mL	Volume: 1 mL	Volume: 1.5 mL	Volume: 1.5-2 mL	Volume: 1-5 mL
	**recommended				
	for infants > 7				
	months of age				
Deltoid	Not recommended	Needle length: 5/8 -	Needle length: 5/8 –	Needle length: 5/8 -	Needle length: 1-3
		1 inch	1 inch	1 inch	inches
		Volume: 0.5 mL	Volume: 0.5 mL	Volume: 0.5 – 1 mL	Volume: 0.5 –2 mL
Dorsogluteal	Not recommended	Not recommended	Not recommended	Needle length: 1/2-	Needle length: 1-3
				1.5 inches	inches
				Volume: 1.5-2 mL	Volume: 1-5 mL
Subcuta	neous Injections ²	: May be given in upp	er outer arm, anterior th	igh, abdomen, upper ba	ck, or buttocks
Infant or Child		Adolescent or Adult		Obese Person	
Needle length: 3/8 inch		Needle length: ½ - 5/8 inch		Needle length: 7/8 inch	
Needle gauge: 25		Needle gauge: 25-27		Needle gauge: 25-27	
Volume:		Volume: 0.5 – 1 mL		Volume: 0.5 – 1 mL	
*no more than 0.1					
*no more than 0.5 mL for small child					
* no more than 1 mL preschool or					
school-aged child					

^{&#}x27;Follow manufacture's instructions for required administration sites.

References:

Bowden, V, R., & Greenberg, C. S. (2003). Medication administration: Intramuscular. *Pediatric Nursing Procedures* (pp. 374-375). Philadelphia: Lippincott, Williams, & Wilkins, Bowden, V, R., & Greenberg, C. S. (2003). Medication administration: Subcutaneous. *Pediatric Nursing Procedures* (pp. 37415-416). Philadelphia: Lippincott, Williams, & Wilkins, (2000). Intramuscular injections. *Nursing Procedures*. Philadelphia: Lippincott, Williams, & Wilkins.

²Needle length should be sufficient to reach muscle.