# Intradermal Injection Guidelines for Needle Length and Gauge Selection*

**INTRADERMAL (ID)**

<table>
<thead>
<tr>
<th>Pediatric to Adult</th>
<th>Location of Injection</th>
<th>Needle Length</th>
<th>Needle Gauge</th>
<th>Needle Angle</th>
</tr>
</thead>
</table>
| <12 months (Infants) | Anterior aspect of forearm  
Upper chest  
Upper back  
Back of upper arm | 3/8” - 3/4” | 26 - 28g | 10° - 15° |
| 12 months to 18 years (Toddlers and older children) | | | | |
| > 18 years | | | | |

* Adapted from Fundamentals of Nursing: Human Health and Function, R. Craven, C. Hirnle, 4th ed. Lippincott Williams & Wilkins 2003

**ISO Hub Color Standards for safety-engineered needles**

- 30G
- 29G
- 28G
- 27G
- 26G
- 25G
- 24G
- 23G
- 22G
- 21G
- 20G
- 19G
- 18G
Intradermal (ID) Injection Guidelines:

**Injection Route:**

- Spread the skin taut, and insert the needle tip at a 10-15° angle.
- Inject medication slowly. If a wheal does not appear, it was administered in the subcutaneous tissue.

**Injection Sites:**

- Anterior aspect of the forearm
- Upper chest
- Upper back/Back of arm

**Injection Procedure:**

- Spread the skin taut, and insert the needle tip at a 10-15° angle.
- Inject medication slowly. If a wheal does not appear, it was administered in the subcutaneous tissue.