# Injections

Subcutaneous Intramuscular Medications

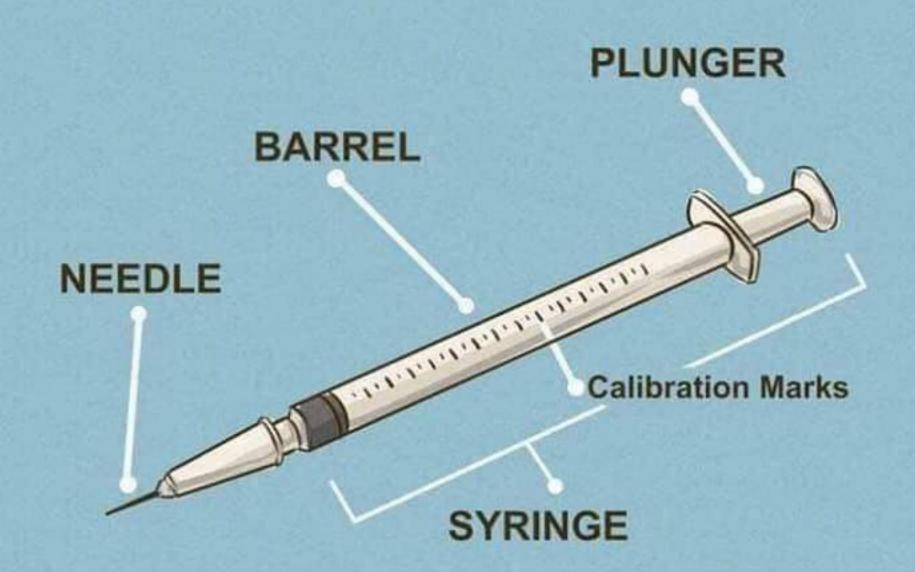
## Subcutaneous Injections

- Medications absorbed in the fat
- Administered in areas of fat in the body
- Size gauge: Subcutaneous range = 25-27
- Needle length: 3/8-5/8 inch
- No airlock for subcutaneous! Only exception is Lovenox and Arixtra.
- How to admin? Pinch up the skin and inject at a 45 degree angle

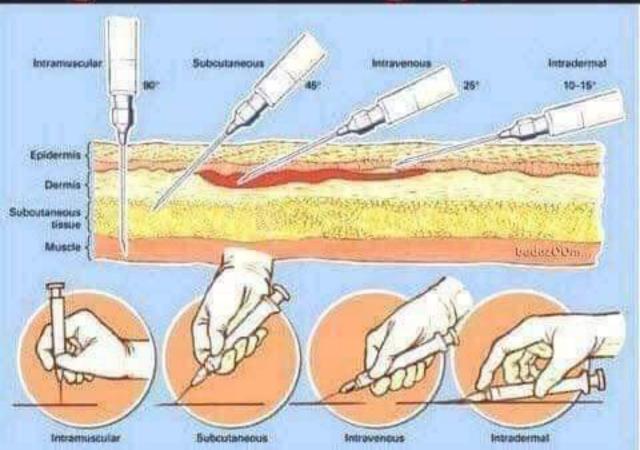
#### Subcutaneous Injections

- Heparin, Lovenox, Insulin, Arixtra- 90 degree angle
- Aspirate and massage for subcutaneous injections except Heparin, Lovenox, Insulin, Arixtra.
- Two handed versus
  One handed technique

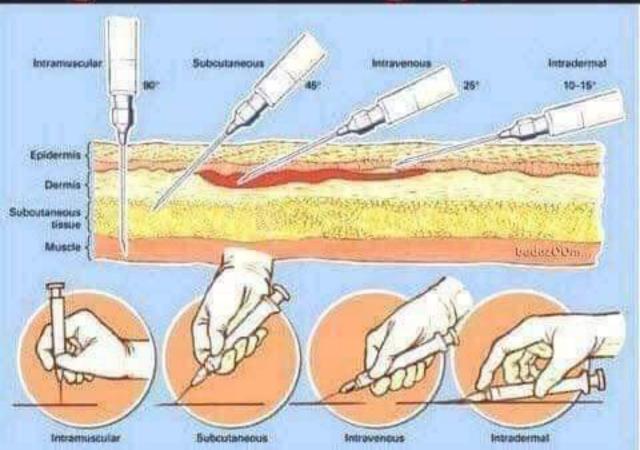


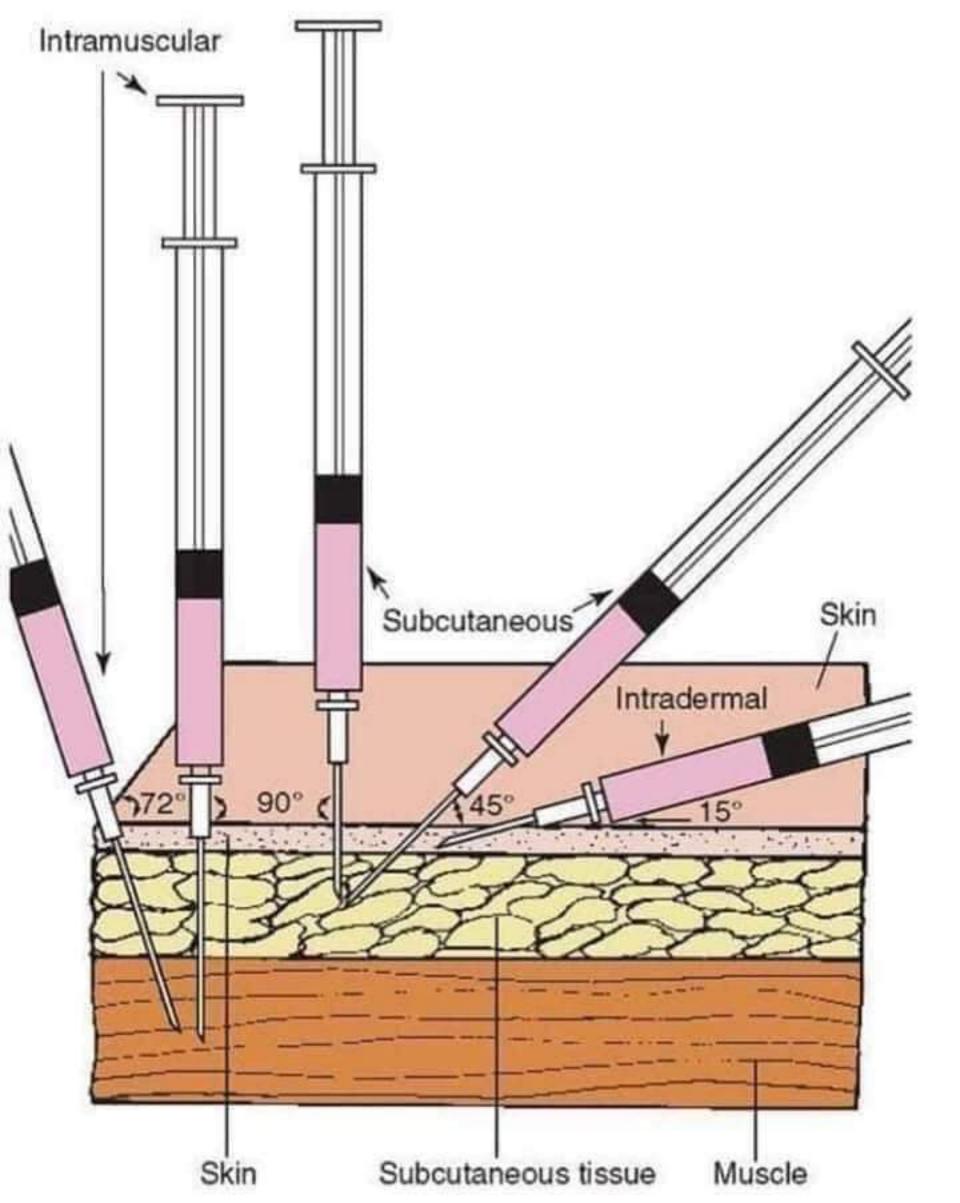


# Angles for inserting injections



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#### How to Give an Intramuscular Shot



 Use an alcohol swab to clean the skin where you will give the shot.



After you insert the needle completely, release your grasp of the muscle.



If no blood appears, inject all of the solution by gently and steadily pushing down the plunger.



 Hold the muscle firmly and insert the needle into the muscle at a 90° angle (straight up and down) with a quick firm motion.



 Gently pull back on the plunger of the syringe to check for blood. (If blood appears when you pull back on the plunger, withdraw the needle and syringe and gently press the alcohol swab on the injection site. Start over with a fresh needle.)



Withdraw the needle and syringe and press an alcohol swab gently on the spot where the shot was given.

## Intramuscular Injections

- Medications absorbed in the muscle
- Administered in...

Deltoid

Vastus lateralis (front of thighs)

Ventrogluteal

Dorsogluteal

- Size gauge: IM range = 18-22
- Needle length: 1-11/2 inch
- Maximum dose: 3 mL

# Intramuscular Injections

- IM requires a 0.2-0.3 mL airlock
- How to admin? Hold skin taut and inject at a 90 degree angle
- Aspirate and massage all IM injections



# Injection angles

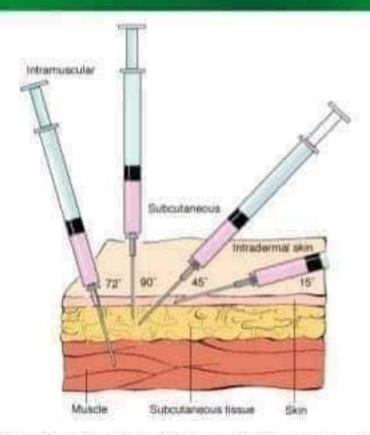


Figure 29-11 Comparison of the angles of insertion for intramuscular, subcutaneous, and intradermal injections.

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# Intramuscular Injections

- Z-track method:
  - -Requires the one-handed method
  - -Use your non-dominant hand to gently pull skin to one side.
  - -Release skin only after needle is withdrawn

#### **Z-track method**

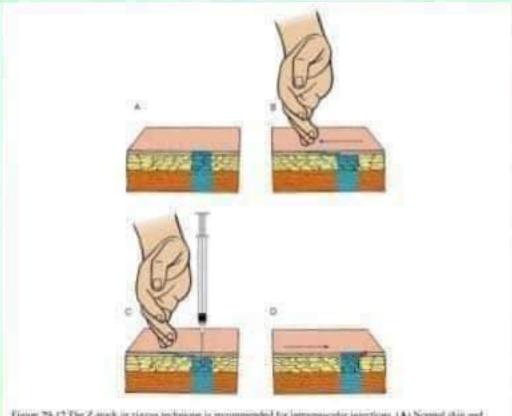
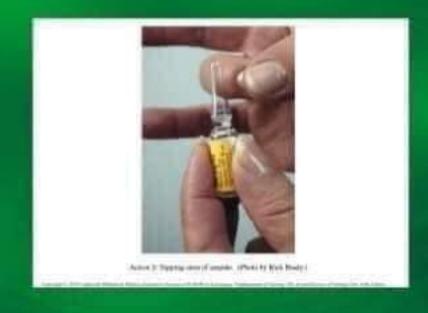


Figure 25: (2 The Z-mark in signal technique is recommended for intramsocular injections. (A) Normal this and thisses. (B) Moving the skin to use side. (C) Nordle is inserted at a 90-degree angle, and the surse aspirates for blood. (B) Once the needle is withdrawn, displaced times is allowed to seture to its normal position, preventing the solution from escaping from the muscle from:

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## **Basic Injection Techniques**

- Tell pt. what to expect
- Do not drill
- Anchor heel of your hand on pt's hip, leg, arm so you can move with pt
- Do not recap used needle
- Ampule
  - Use an alcohol pad to open.
  - Use a filter needle
  - No air into ampule.



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