

## **Procedure #5: Administration Of Medication**

### **PURPOSES**

**Medication** : Is a substance administration for

- 1- palliative** ; To control S&S
- 2- Curative** ; TO cure disease
- 3- Diagnostic**
- 4- preventive of disease** (Immunization or vaccination)
- 5- Chemotherapy** : For malignant tumor
- 6- Supportive** ;To support body function like (dopamine)
- 7-Substative** : like ( insulin)

### **Six Right**

- 1- right patient name**
- 2- right drug name**
- 3- right dose**
- 4- right time**
- 5- right route**
- 6- right documentation**

## Common Medical Abbreviation use in medication order

- \* **PO**---- per oral **or** per mouth
- \***NPO**---- Nothing Per Mouth (**Oral**)
- \***PRN**---- ON need (**painkiller**)
- \***Stat** ---- immediately at once
- \***OTC**-- Over The Counter Medication
- \***Bid** ----2 time/ day
- \***Tid**----3 time /day
- \***Qid**----4 time / day
- \***IM**----intramuscular
- \* **IV** ---- intravenous
- \***Sc**---- subcutaneous
- \***ID**---- intra dermal
- \***Q** ----- every
- \***Qd** ----- every day
- \* **Qod**---- every other day
- \* **Qh**--- every hour
- \* **Q2h** ---every 2 hour
- \* **Q4h**---every 4 hour
- \* **Q6h** ---- every 6 hour

## Drug calculation formula

$$\frac{\text{Dose on hand}}{\text{Quantity on hand}} = \frac{\text{Desired dose}}{\text{Desired quantity}}$$

## Medication Calculation example

# Metoprolol 25 Mg PO is ordered . Metoprolol is available as 50 Mg/tablet . How many tablet would the nurse administer ?

# Phenytoin 100 mg po is order to be given through a NG tube . Phenytoin is available as 30 mg /5 ml . How would the nurse administer?

## Routes of drug administration

**1- Oral** --- drug given orally

\* **Sublingual** --- drug is placed under the tongue



\* **Buccal** --- means administration of the medication between the cheek and gum



## 2- Parenteral

A- ID

B- SC

C- IM

D- IV

E- Intraarterial

F- Intracardial

J- Intraperitoneal

H- Intraspinal

## 3- Topical

## 4- Pulmonary

## ID (Intra-dermal)

**\*Site of injection** (chest , scapula , inner- forearm)

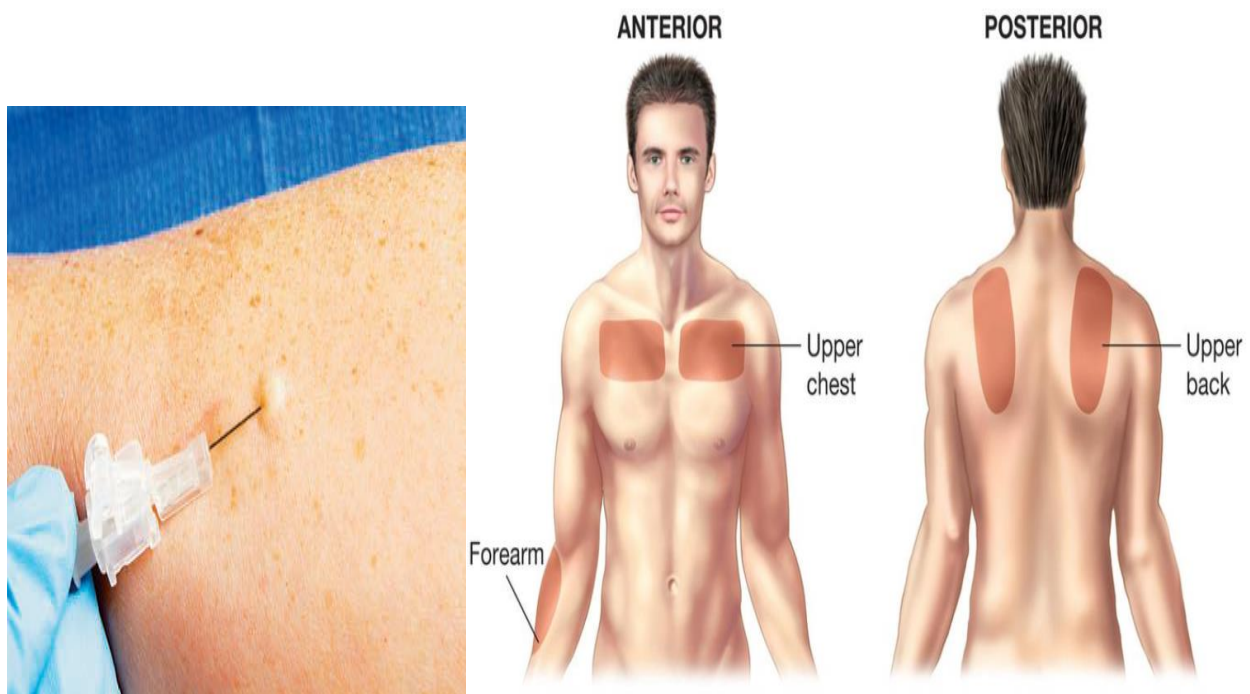
**\*Purpose** (allergy test , tuberculin test)

**\*Quantity (dose)** 0.1 ml = (10 unit from insulin syringe)

**\*Angle of administration** ( 10---15) degree

**NOT ; The patient have allergy is**

**(Redness ,Rash, Itching, Swelling , Painful )**



## SC ( Subcutaneous )

\* **Site of injection** (upper arm, abdomen, thigh , upper back)

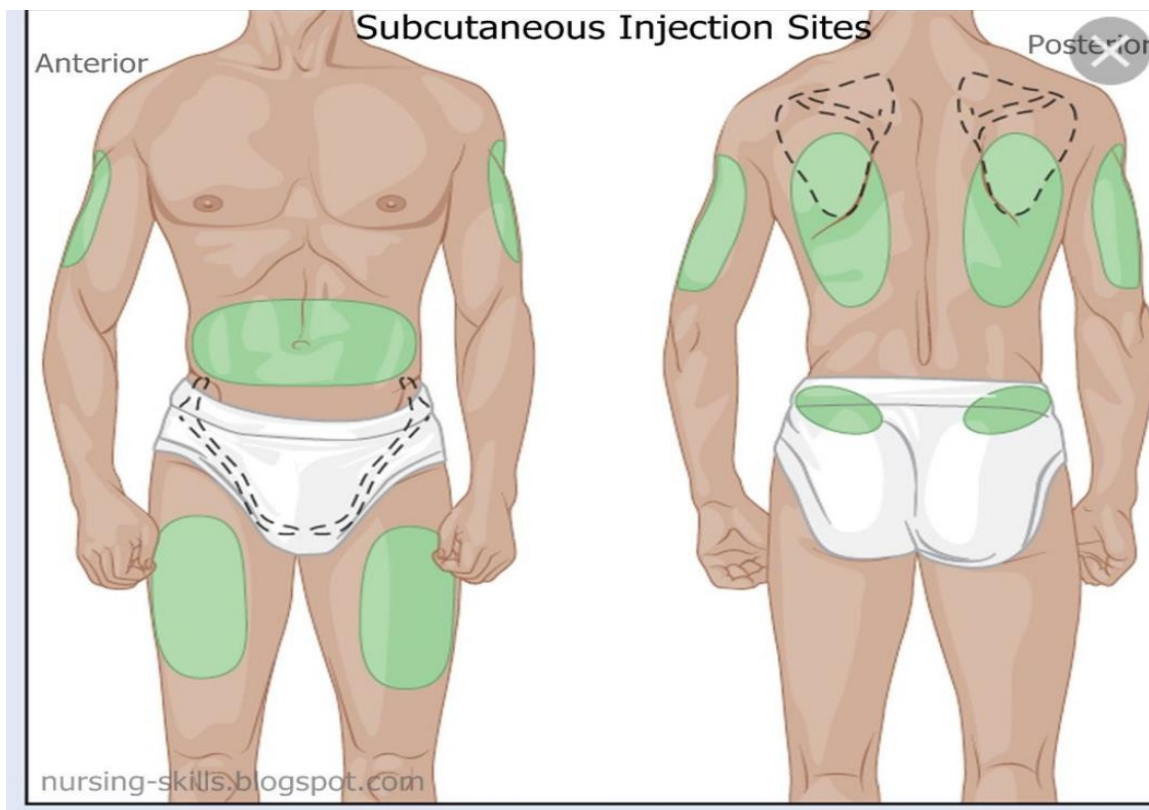
\* **Purpose** ( used to administration of drug such as (( **insulin , heparin , hormones , vaccination**))

\***Quantity ( dose) 1ml ----2ml**

\***Angle of administration**

-If use of insulin syringe the angle is (90) degree

-If use of another syringe the angle is ( 45) degree



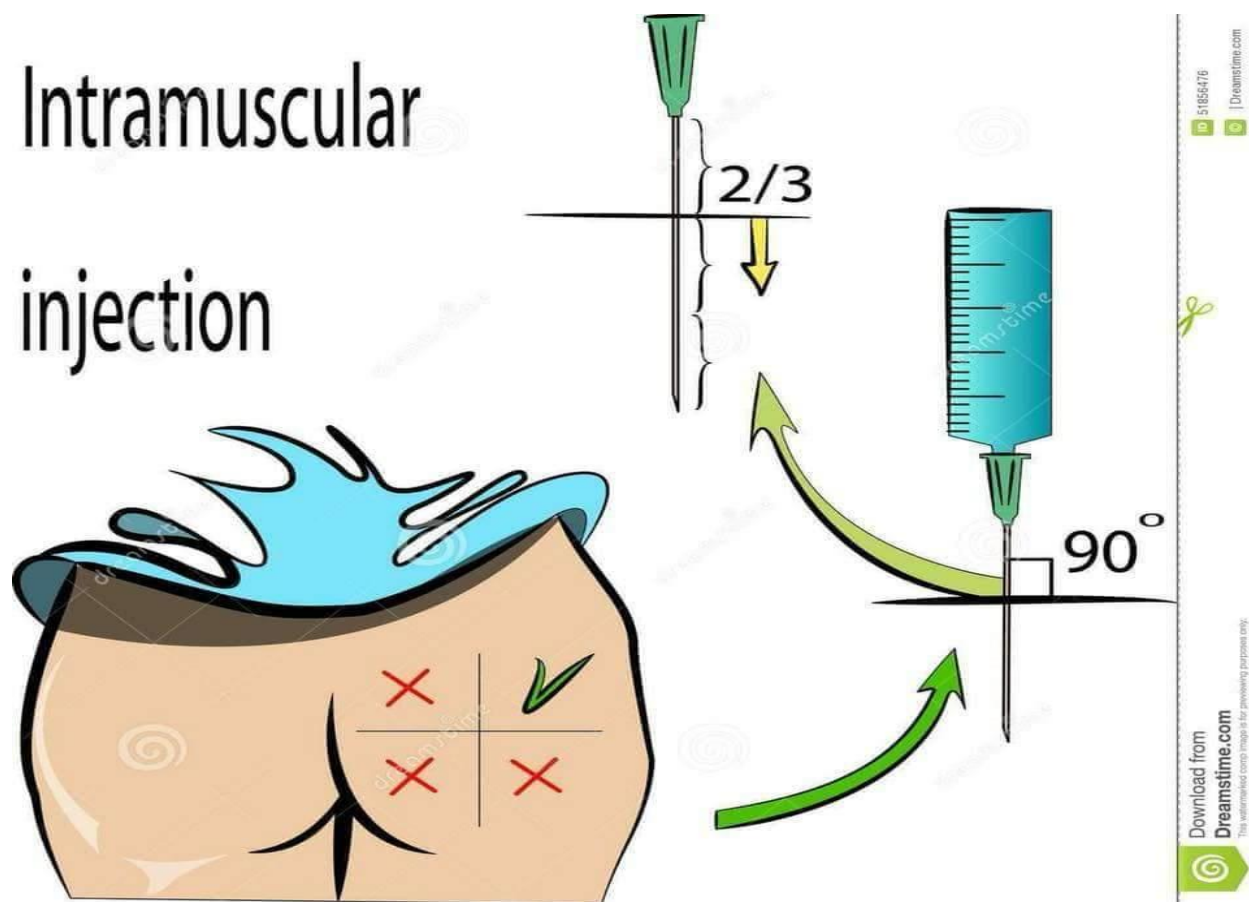
## IM( Intra-muscular)

### \*Site of injection

- Back**( ventrogluteal muscle)
- **Arm** ( deltoid muscle )
- Thigh**( vastus lateralis )

\* **Quantity** ( dose)      2----4 ml

\***Angle of administration** ( 90) degree



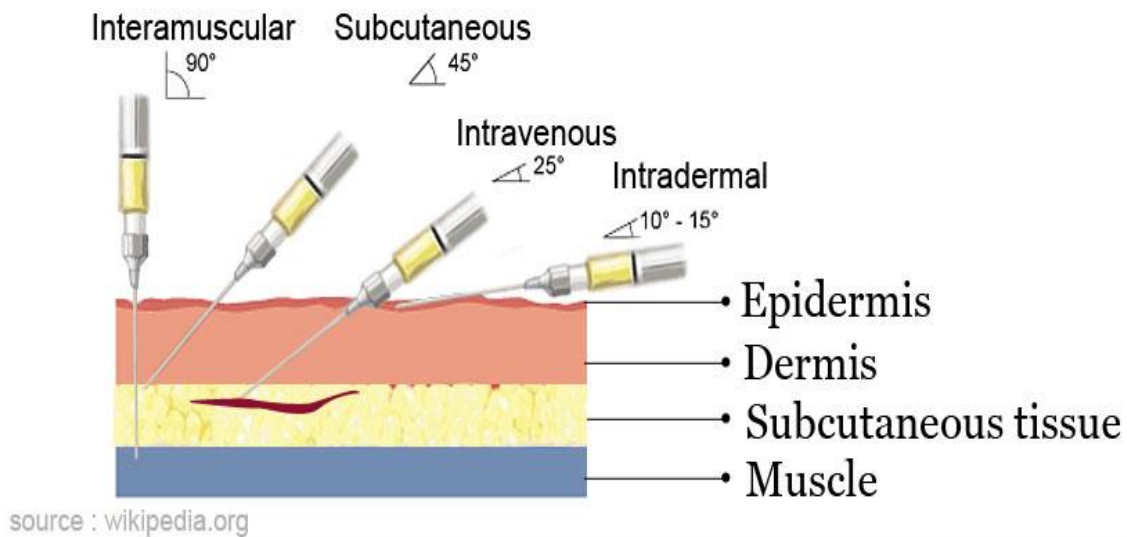


## IV ( Intra- venous )

\*Quantity 5ml-----2000ml

\* Angel Of Administration (25) degree

### Types of Parenteral Routes of Administration



### Injection technique

