

RITA CAREY-NITA

### Section 3 Parenteral Administration

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#### PARENTERAL ROUTE

- ✦ Parenteral route is liquid medication administered by injection
- ✦ Common routes nurses use include:
  - + Subcutaneous (SC or SQ)
  - + Intramuscular (IM)
  - + Intravenous (IV)
  - + Intradermal (ID)

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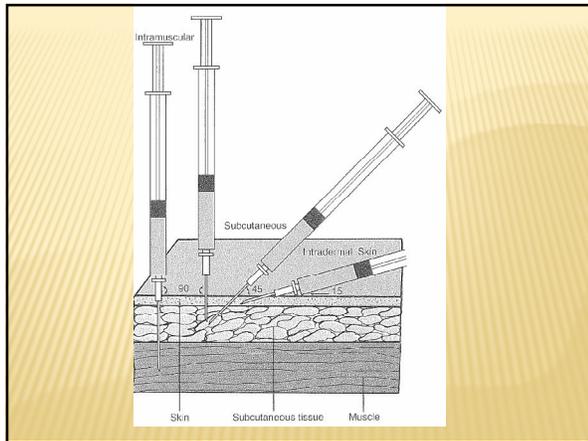
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**PARENTERAL ROUTE**

- ✘ Key principles with parenteral route:
  - + Sterile equipment must be utilized
  - + Proper technique with administration
    - ✘ Administering medication by the correct route
      - ✘ i.e. if subcutaneous be sure angle of injection will reach subcutaneous tissue
  - + This route has quick rate of absorption
  - + Knowledge of medications is imperative

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**PARENTERAL ROUTE**

- ✘ Follow universal precaution—**Wear gloves**
- ✘ **Never Recap a Needle**
- ✘ Discard needle into designated sharps container
- ✘ Occupational Safety & Health Administration Guidelines (OSHA)
  - + Needle sticks expose and can transmit
    - ✘ Hepatitis B--Hepatitis C--HIV
    - ✘ Others – Tb--syphilis--malaria
  - + > 80% preventable
- + Each facility should have *Sharps Injury Log & Exposure Control Plan*

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**SYRINGES & NEEDLES**

- ✘ Syringes:
  - + Syringes are available in various sizes ranging from 0.5ml to 100ml
  - + Syringes consists of three parts:
    - ✘ Tip--barrel--plunger
  - + There are two types of tips:
    - ✘ Leur-lock or plain tip
  - + Syringes are disposable

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### SYRINGES & NEEDLES

- + The plunger is pulled out to create a vacuum & to withdraw medication from vial & pushed to instill medication
- + The barrel is clearly marked with calibrated measurements
- + Depending on the syringe the measurements can be marked in 10<sup>th</sup> or 100<sup>th</sup> per milliliters
- + Some syringes come with needles attached & some do not

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### SYRINGES & NEEDLES

- × Needles:
  - + Consists of three parts:
    - × Hub—shaft—beveled tip
  - + Hub attaches to the syringe
  - + Shaft is the elongated portion
  - + Beveled tip is the slanted tip that contains the bore or hole
  - + Needles are usually stainless steel

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### SYRINGES & NEEDLES

- × Needle size will vary depending on the route & medication
  - + Gauge of the needle refers to the diameter of the bore
  - + G represents gauge & is first # on needle package
  - + The larger the #, the smaller the bore
  - + Gauges range from 25-G, 23-G, 20-G, 18-G
  - + Thicker medication requires larger gauge needle

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### SYRINGES & NEEDLES

- ✘ Needles range in length from 3/8 to 2 inches
- ✘ The route of parenteral medication will determine the size of the needle utilized
- ✘ The patient size, condition & age may also affect the size of the needle utilized
- ✘ i.e. IM injection require longer needle to ensure medication is instilled into muscle

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### SYRINGES & NEEDLES

- ✘ Some syringes are safety syringes that help prevent needle sticks
- ✘ There are also needless systems which simply contain a blunt plastic tip that can penetrate a saline or heparin lock already in place

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### INSULIN SYRINGES

- ✘ Insulin medication is **only** administered with an insulin syringe.
- ✘ It is calibrated in units because insulin is ordered by units which is a more exact measurement
  - + 2 types: 50 unit or 100 unit
- ✘ It is a subcutaneous size needle that is directly attached to the syringe
- ✘ As with all, they are disposable after use

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## SYRINGES & NEEDLES

- ✦ Needles & syringes are packaged in sterile wrappers
- ✦ Maintain sterility
- ✦ Check package & needle or syringe for tampering or damage
- ✦ Check expiration date

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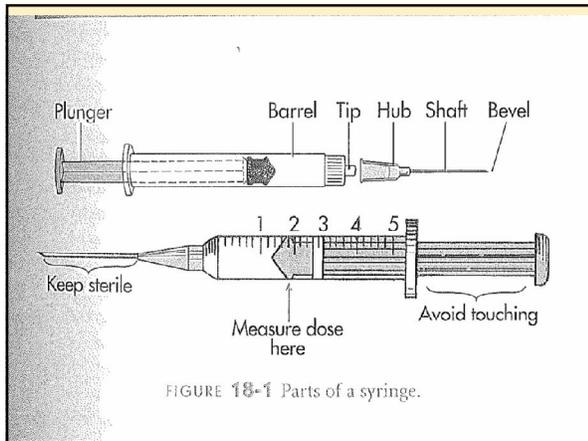
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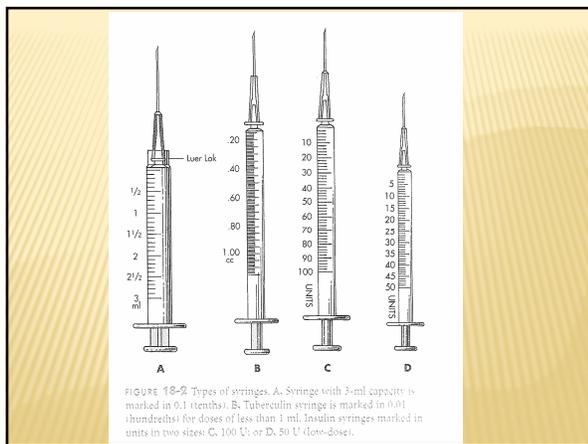
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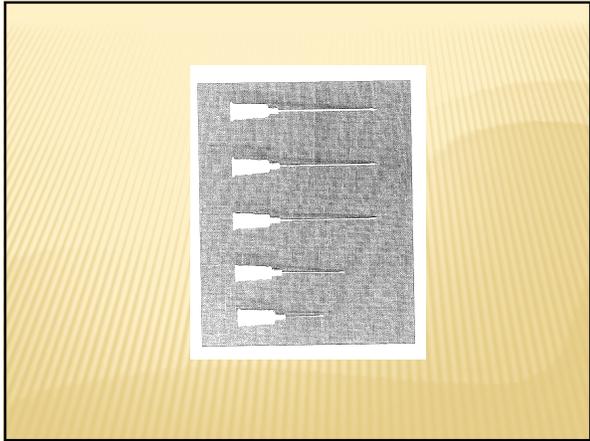
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**MEDICATION**

- ✦ Parenteral medication can be packaged in various forms
- ✦ Can be single dose or multi-dose
- ✦ Can be powder form & require reconstitution or can be liquid
- ✦ Forms include:
  - + Ampule—cartridges—vials

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**AMPULE**

- ✦ **Ampule:**
  - + Glass flask
  - + Contains pre-measured single dose of drug
  - + Discard any med not used – cannot prevent contamination after opened
  - + Thin neck broken before drug is drawn up – can be inverted or placed on flat surface
  - + Care must be taken not to contaminate needle by touching rim of ampule

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### AMPULE

- ✘ Technique for opening ampule:
  - + Tap the stem of the ampule to move any medication from the stem into the body
  - + Wrap with gauze pad around neck or utilize ampule breaker
  - + Use a snapping motion to break off the top of the ampule along the scored line at the neck
  - + Break away from your body

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### AMPULE

- ✘ Technique for removing medication from an ampule:
  - + Attach a filtered needle to the syringe to avoid introducing shards of glass into medication as you withdraw
  - + Do Not instill air or medication will run out of ampule
- ✘ Two way to withdraw:
  - + Upright or inverted

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### AMPULE

- ✘ Withdrawing inverted:
  - + Place barrel of syringe against palm of hand while holding ampule between thumb & pointer finger
  - + Withdraw medication with dominant hand
  - + Be sure not to touch the sides of the ampule with the needle or it is contaminated & must be discarded
  - + Withdraw slow & steady

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## AMPULE

- ✦ Withdrawing upright:
  - + Place ampule on flat surface
  - + Instill needle into liquid inside ampule
  - + Withdraw slowly & steadily
  - + Do not touch side of ampule
- ✦ With both techniques:
  - + Only touch the knob end of plunger
  - + Do not tap syringe until out of ampule to remove excess air bubbles

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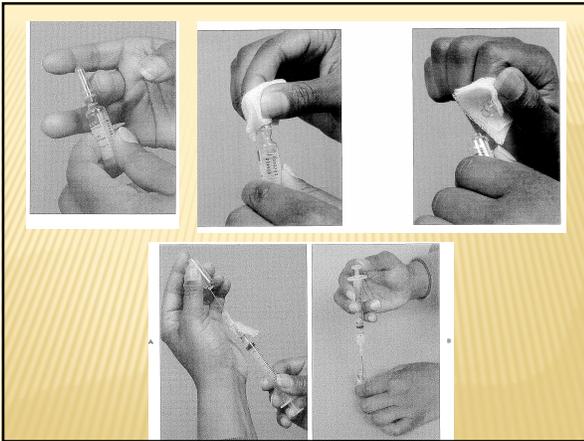
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## VIAL

- ✦ Vial:
  - + Glass bottle with a self-sealing stopper through which medication is removed
  - + Can be a single dose or multi-dose
  - + Usually covered with a soft metal cap that easily removed for transporting and storing
  - + Air must be injected first in an amount equal to the drug being removed.
  - + Aseptic technique is required to prevent contamination of medication
  - + Multi-dose must be dated & timed
  - + Be sure of expiration dates

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REMOVING MEDICATION FROM A VIAL

- ✘ Technique for removing medication from a vial:
  - + Gather equipment
  - + Wash hands
  - + Remove the metal or plastic cap covering the rubber stopper
  - + Swab top of stopper with alcohol prep & allow to dry
  - + Remove the cap from the needle
  - + Touch only the knob of the plunger

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REMOVING MEDICATION FROM A VIAL

- + Draw back an amount of air into the barrel that is equal to the amount of medication to be withdrawn from the vial
- + Hold the vial on a flat surface & pierce the rubber stopper in the center with the needle tip & inject the measured air into the space above the solution; **Do Not inject air into solution**
- + Invert the vial & keep the tip of the needle below the fluid level
- + Hold the vial with one hand & use other to withdraw medication

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REMOVING MEDICATION FROM A VIAL

- ✘ Draw up the prescribed amount of medication while holding the syringe vertically & at eye level
- ✘ If any air bubbles accumulate in the syringe, tap the barrel to move the bubble toward hub of syringe to be expelled out of needle
- ✘ Pull needle out of fluid portion of & inject the air bubble into air portion of vial

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**REMOVING MEDICATION FROM A VIAL**

- ✘ Return needle tip into solution portion of vial & withdraw the rest of the medication as prescribed
- ✘ After medication is withdrawn, remove needle from the vial & carefully replace cap over needle
- ✘ Be sure to check the amount of medication in the syringe with the vial & MAR before discarding packaging or storing multi-dose

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**REMOVING MEDICATION FROM A VIAL**

- ✘ Some medication are withdrawn with a filter needle which needs replacement
  - + Facility policy may require any needle be replaced after medication is withdrawn
- ✘ If a multi-dose medication is used be sure the bottle is dated when opened & timed

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**MIXING MEDICATION FROM 2 VIALS**

- ✘ Technique for mixing medication from 2 vials:
  - + Gather equipment
  - + Wash Hands
  - + Remove cover on rubber stopper of both vials
  - + Swab top of both vials with alcohol & allow to dry
  - + Gently agitate medication in vial if required
  - + Remove the cap of the needle by pulling straight off

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MIXING MEDICATION FROM 2 VIALS

- ✘ Draw back the plunger touching only the knob an amount of air equal to the amount of medication that will be withdrawn from vial #2
- ✘ Vial #2 should be upright on a flat surface
- ✘ Pierce the stopper of vial #2 with the needle & instill the air into the air portion of the vial
- ✘ Remove the needle from Vial #2

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MIXING MEDICATION FROM 2 VIALS

- ✘ Draw back an amount of air equal to the amount of medication to be withdrawn from Vial #1
- ✘ Place Vial #1 upright on a flat surface
- ✘ Pierce the rubber stopper of Vial #1 & instill the air into the air portion of the vial

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MIXING MEDICATION FROM 2 VIALS

- ✘ Invert vial #1 with one hand, place the needle in the liquid portion of vial & withdraw the correct amount of medication while holding the syringe at eye level & vertical
- ✘ If no air bubble present, place vial upright & remove needle

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### MIXING MEDICATION FROM 2 VIALS

- ✘ Next, insert the needle into Vial #2
- ✘ Invert Vial #2 & place the needle into the liquid portion of the medication
- ✘ At eye level slowly & steadily withdraw the correct amount of medication from Vial #2
- ✘ You cannot re-instill any air or medication into Vial #2 because it contains medication from Vial #1 as well

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### MIXING MEDICATION FROM 2 VIALS

- ✘ Turn Vial #2 upright & remove needle
- ✘ Carefully replace the cap
- ✘ Compare the amount of medication in the syringe with the order
- ✘ Recheck Vials with the MAR
- ✘ Any newly opened vials but be dated & timed

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### MIXING INSULIN

- ✘ Insulin is the main medication that is at times mixed
- ✘ Before mixing any insulin be sure of compatability
- ✘ Always remember the rule:  
**Clear to cloudy**
- ✘ Draw up the unmodified insulin first which is clear
  - + Regular: Humulin R–Novolog R–Humalog
- ✘ Then the modified which is cloudy
  - + NPH–Novolin70/30–Humulin 70/30

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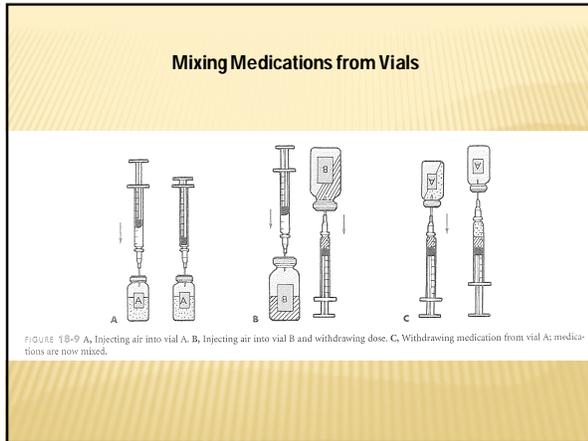
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### RECONSTITUTION OF VIAL MEDICATION

- ✘ Some medication will be packaged in powder form
- ✘ The medication will have specific instructions for reconstitution
- ✘ Most will be reconstituted with either normal saline or sterile water
- ✘ Follow instructions carefully

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### RECONSTITUTION OF VIAL MEDICATION

- ✘ The amount of liquid instilled changes the concentration of the medication
- ✘ This will in turn change the dose of medication administered
- ✘ Follow Instructions Carefully

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**RECONSTITUTION OF VIAL MEDICATION**

- ✦ Equipment:
  - + MAR
  - + Medication in vial form
  - + Liquid to reconstitute
  - + Syringe
  - + 2 Needles
  - + Alcohol swab

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**RECONSTITUTION OF VIAL MEDICATION**

- ✦ Technique:
  - + Be sure of Doctor order
  - + Read the medication information for reconstitution
  - + Remove cap of both vials & cleanse with alcohol prep
  - + Draw up the appropriate amount of liquid into the syringe to be instilled into powered medication vial

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**RECONSTITUTION OF VIAL MEDICATION**

- ✦ Insert the needle into the powered vial & slowly instill liquid
- ✦ Agitate the medication in the powered vial by rolling back & forth between hands
- ✦ Once the medication has been mixed thoroughly you will insert the needle into the vial & remove the ordered amount of medication
- ✦ Before the medication is administered change the needle

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### PREFILLED SYRINGES

- ✘ Some medications are packaged as a prefilled syringes or cartridge
- ✘ To administer, you must utilize a carpuject or tubex
- ✘ A needle size appropriate for the medication & route must be placed at end of syringe
- ✘ Air must be dispelled before administration

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### PREFILLED SYRINGES

- ✘ Some syringes must be primed prior to use or the medication will not expel
- ✘ Some medication may need to be wasted prior to administration
- ✘ Many narcotics come in prefilled syringes

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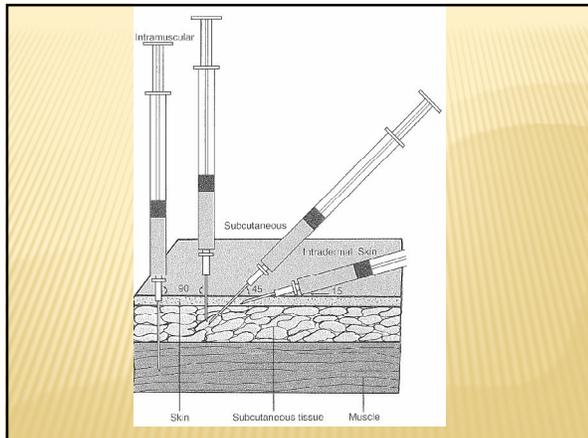
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**INTRADERMAL ROUTE**

- ✘ Intradermal injection are administered into the dermis, just below the epidermis
- ✘ Longest time for absorption
- ✘ Utilized for sensitivity testing
  - + Tb-allergy skin testing—local anesthesia

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**INTRADERMAL ROUTE**

- ✘ Sites:
  - + Inner surface of forearm
  - + Upper back
  - + Under scapula
  - + Assess the area
    - ✘ Choose a hairless area
    - ✘ Avoid moles
    - ✘ Avoid scars
    - ✘ Avoid pigmented areas

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**INTRADERMAL ROUTE**

Equipment:

- + 1 ml syringe; Tuberculin syringe
- + Most accurate syringe for small amounts of agents because measured in 100ths of ml
- + Needle
  - ✘ 25 to 27 gauge
  - ✘ ¼ to ⅝ inch needle
- + Small volumes—Usually < 0.1mL
- + Alcohol prep & 2x2 gauze

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**INTRADERMAL ROUTE**

- ✘ Technique:
  - + Wash Hands & Don Gloves
  - + Select appropriate site
  - + Cleanse in circular motion from inner to outer with alcohol swab & allow to dry
  - + Remove cap from needle straight off with non-dominant hand

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**INTRADERMAL ROUTE**

- ✘ Use the non-dominant hand to spread skin taut over the injection site
- ✘ Hold syringe in dominant hand between the thumb & forefinger with the bevel up
- ✘ Hold syringe at a 10°-15° from site
- ✘ Insert the syringe only about 1/8"
- ✘ You should see the needle through the skin

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**INTRADERMAL ROUTE**

- ✘ Once in place slowly inject the medication with the dominant hand while the non-dominant hand secure the syringe
- ✘ Injection produces a small raised area called a wheal or bleb
- ✘ Withdraw the needle & dispose into sharps container
- ✘ **Never Recap**
- ✘ Do Not Massage Site or Place Pressure

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### INTRADERMAL ROUTE

- ✘ Remove gloves & wash hands
- ✘ Reposition patient
- ✘ Documentation
- ✘ Included in documentation should be site & if necessary the date to be read

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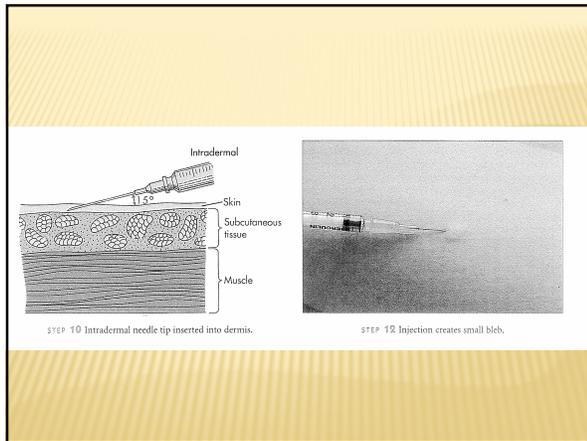
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### SUBCUTANEOUS ROUTE

- ✘ Drug placed in the adipose tissue between skin & muscle layer
- ✘ Slower absorption than IM faster than ID; usually 30 minutes
- ✘ Absorbs into the capillary network in tissue
- ✘ Heparin & insulin are two common medications administered SQ

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### SUBCUTANEOUS ROUTE

- ✘ Equipment:
  - + Syringe:
    - ✘ 3cc syringe
    - ✘ Insulin syringe: 50 unit or 100 unit
  - + Gauge range is 23-30
  - + Needle length is from 3/8" to 1" with 5/8 being the most common
- ✘ Needle length and angle based on pt's body weight

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### SUBCUTANEOUS ROUTE

- ✘ Sites:
  - + Outer aspect of upper arms
  - + Abdomen; 1" around umbilicus, below costal margins to iliac crest
  - + Anterior thighs
  - + Upper back
  - + Dorsogluteal area

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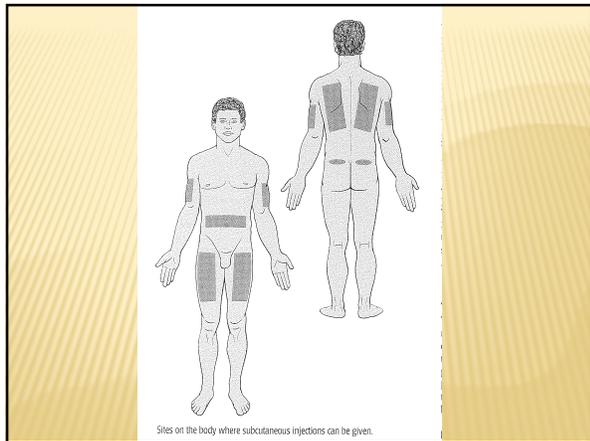
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**SUBCUTANEOUS ROUTE**

- ✘ Technique:
  - + Wash hands & don gloves
  - + Select appropriate site
  - + Assess site being sure it is clear of rashes, lesions or scars
  - + Assist patient into position for injection
  - + Identify appropriate landmarks
  - + Swab area with alcohol swab in circular motion from inner to outer

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**SUBCUTANEOUS ROUTE**

- + Remove cap of needle with non-dominant hand
- ✘ You may enter site at a 45 or 90 degree angle
  - + With 45 degree you hold the skin taut
  - + With 90 degree you bunch skin at injection site
- ✘ Hold the syringe with the thumb & forefinger of the dominant hand
- ✘ Inject the needle quickly at the appropriate angle

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**SUBCUTANEOUS ROUTE**

- ✘ Release tissue, maintain site with non-dominant hand & slide dominant hand to plunger
- ✘ Some textbooks state to pull back on plunger to ensure you are not in vessel; aspirate others texts recommend you do not with SQ injection
- ✘ **Never Aspirate with Heparin**
- ✘ Inject medication slowly
- ✘ Withdraw the needle quickly at the same angle it was inserted, keeping non-dominant hand maintaining site

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### SUBCUTANEOUS ROUTE

- ✘ Apply gentle pressure to site with gauze
- ✘ **Do Not Massage Site; especially with Heparin**
- ✘ **Never Recap**
- ✘ **Dispose of in sharps container**
- ✘ Assist patient into comfortable position
- ✘ Remove gloves & wash hands
- ✘ Document site & evaluate for response

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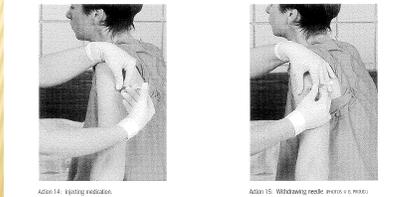
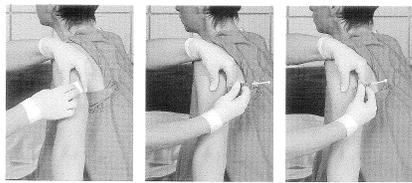
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### INTRAMUSCULAR ROUTE

- ✘ Drug administered into the muscle
- ✘ Absorbed more rapidly than SQ due to rich blood supply; 10-30 minutes
- ✘ Larger volume given at one site
- ✘ Volume amount varies by site & age
- ✘ Imperative to have knowledge of anatomic landmarks for injection sites as well as knowledge of major nerves & blood vessels
- ✘ Knowledge of medication also important due to rate of absorption

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### INTRAMUSCULAR ROUTE

- ✘ Sites:
  - + Deltoid
  - + Ventrogluteal
  - + Vastus lateralis
- ✘ Anatomic Landmarks:
  - + Depends on site
  - + Knowledge of site important to avoid injury to patient

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### INTRAMUSCULAR ROUTE

- ✘ Deltoid landmarks:
  - + Client should be standing or sitting
  - + Have them relax arm
  - + Palpate the lower base of the acromion process
  - + Triangular shaped muscle with base of triangle along acromion process
  - + Place 4 fingers across the deltoid muscle with top finger across acromion process
  - + Medication can be placed within the 3 finger widths below or 1-2 inches below process

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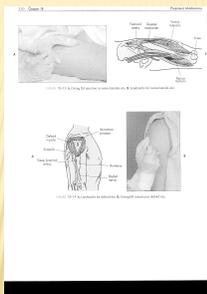
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### DELTOID



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### INTRAMUSCULAR ROUTE

- ✘ Ventrogluteal landmarks:
  - + Position patient onto either side with knees bent & upper leg slightly in front of the bottom leg
  - + Palpate the greater trochanter at the head of the femur & the anterior superior iliac spine
  - + Use right hand if client on right side & left hand when client on left side to ensure proper location

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### INTRAMUSCULAR ROUTE

- ✘ Ventrogluteal landmarks:
  - + Place the palm of the hand over the greater trochanter & the index finger on the anterior superior iliac spine while the thumb is pointing toward the patient's groin
  - + Spread the middle finger back along the iliac crest toward the buttock as far as possible; making a V
  - + The injection site is between the index & middle finger

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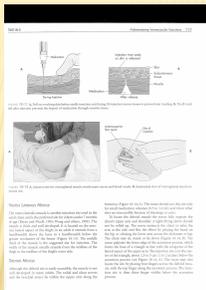
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### VENTROGLUTEAL




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### INTRAMUSCULAR ROUTE

- ✘ Vastus lateralis:
  - + Place patient in supine position
  - + Place one hand above the knee & one hand below the greater trochanter of the femur
  - + Locate the midline of the anterior thigh & lateral thigh
  - + The injection site is located within the rectangle formed by these boundaries

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### VASTUS LATERALIS

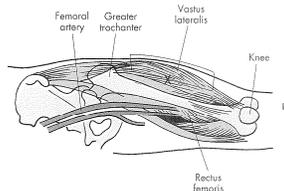


FIGURE 18-13 A, Giving IM injection in vastus lateralis site. B, Landmarks for vastus lateralis site.

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### INTRAMUSCULAR ROUTE

- ✘ Equipment:
  - + Syringe is usually a 3cc syringe
  - + Well developed adult may receive up to 4ml of a solution so a 5 cc syringe may be necessary
  - + Needle length can vary between 1" to 3" & is dependent on the age & size of patient
  - + Gauge is dependent upon medication & varies between 18-25G

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### INTRAMUSCULAR ROUTE

- ✘ Usually only 1 ml is administered into deltoid of any patient
- ✘ Children should receive no more than 1 ml of medication in a given site
- ✘ Less developed patients, elderly should receive no more than 1-2ml in a given site

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### INTRAMUSCULAR ROUTE

- ✘ Technique:
  - + Gather equipment
  - + Wash hands & don gloves
  - + Choose appropriate site for administration of IM injection
  - + Position patient & **identify landmarks for site chosen**
  - + Cleanse the area around the injection site in a circular motion from inner to outward & allow to dry

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### INTRAMUSCULAR ROUTE

- ✘ Remove the cap from the needle & hold the syringe in the dominant hand between the thumb & index finger
- ✘ Non-dominant hand should be placed at landmarks but also pulling skin down or to the side about 1" & skin taut
- ✘ Quickly dart the medication into the tissue at a 90 degree angle

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**INTRAMUSCULAR ROUTE**

- ✘ Once the needle is in place use the thumb & index finger of the non-dominant hand to hold syringe in place
- ✘ Slide dominant hand to the plunger & aspirate slowly by pulling back on the plunger for 5 seconds to determine if the needle has entered a vessel
- ✘ Watch for a flash of red or pink in syringe
- ✘ **If a flash appears; remove syringe**
- ✘ **Do not instill medication**

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**INTRAMUSCULAR ROUTE**

- ✘ If no blood is aspirated, inject the medication slowly; about 10 seconds/ml
- ✘ Wait another 10 seconds before withdrawing the syringe
- ✘ Release displaced skin & withdraw the needle slow & steady & at the angle it was injected
- ✘ Apply gentle pressure to site with 2x2 gauze

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**INTRAMUSCULAR ROUTE**

- ✘ **Never Recap Needle**
- ✘ Discard of syringe in sharps
- ✘ You may place bandage to site if bleeding occurs
- ✘ Reposition patient for comfort
- ✘ Document site & toleration
- ✘ Evaluated response to medication

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**INTRAMUSCULAR ROUTE  
Z-TRACK TECHNIQUE**

- ✘ Utilize this method when:
  - + Drug irritating to SQ tissue
  - + Drugs that can permanently stain skin
- ✘ Procedure:
  - + Draw medication in syringe
  - + Change needle
  - + Draw ~ 0.1 to 0.2 mL air into syringe
  - + Position pt appropriately
  - + Cleanse skin
  - + Pull skin laterally
  - + Insert needle and inject drug, wait 10 seconds
  - + Release skin as you withdraw needle

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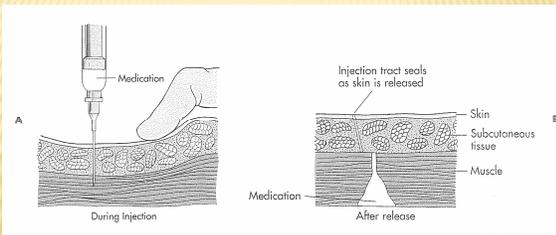
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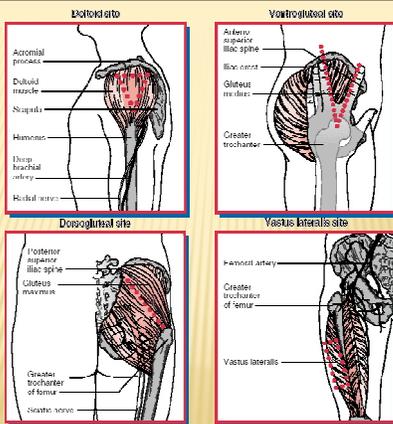
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### NURSING RESPONSIBILITIES WITH DRUG ADMINISTRATION

- ✦ Always document immediately after medication administration
- ✦ Note any issues with administration process
- ✦ Evaluate & record patient response to medication
- ✦ Observing for adverse reactions

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### NURSING PROCESS & MEDICATION ADMINISTRATION

- ✦ The nursing process is unique to nursing
- ✦ As nurses, we continually
  - + Assess our patient
  - + Diagnosis (uses nursing diagnoses not medical)
  - + Plan care according to the diagnosis
  - + Implement our plan of action
  - + Evaluate the effect of our action

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### THE NURSING PROCESS IN DRUG ADMINISTRATION

- ✦ Assessment
  - + Initial
    - ✦ Collect subjective and objective data
    - ✦ Assess knowledge of disease process, drug and drug regimen
  - + Ongoing
    - ✦ Collect data related to effectiveness of the drug
    - ✦ Monitor for adverse effects

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### THE NURSING PROCESS IN DRUG ADMINISTRATION

- ✦ Nursing Diagnoses
  - + Ineffective therapeutic regimen management
  - + Deficient Knowledge
  - + Noncompliance
  - + Anxiety
  - + Risk for Injury
  - + Risk for Infection
  - + Risk for allergic response

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### THE NURSING PROCESS IN DRUG ADMINISTRATION (CONT.)

- ✦ Planning
  - + Set expected outcomes
  - + Develop a teaching plan to correct deficient knowledge or reason for non compliance
  - + Examples
    - ✦ The patient will effectively manage the therapeutic regimen
    - ✦ The patient will state the drug regimen
    - ✦ The patient will comply with the drug regimen

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### THE NURSING PROCESS IN DRUG ADMINISTRATION (CONT.)

- ✦ Implementation
  - + Perform any nursing assessment before administration of a drug
    - ✦ Vital signs
    - ✦ Review subjective/objective data
  - + Administer drug according to the "Six Rights" & 3 Checks
  - + Manage adverse reactions
  - + Teach patient/family about drug, disease process, treatment regimen

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THE NURSING PROCESS IN DRUG  
ADMINISTRATION (CONT.)

- ✦ Evaluation
  - + Evaluate the effectiveness of nursing interventions to meet patient outcomes
  - + Evaluate effectiveness of the drug regimen
  - + Evaluate patient/family's understanding of the drug regimen

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