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- subcutaneous tissue into the muscle layer
- 2. Equipment needed for administration of a medication by the intramuscular route
- 3. Locate anatomical sites for adults and children
 - a. Vastus lateralis muscle
 - b. Rectus femoris muscle
 - c. Gluteal area
 - d. Deltoid muscle
- 4. Technique for administration of medication by the intramuscular route
- 5. Precautions
- G. Administration of medication by intravenous route
 - 1. Intravenous route
 - a. Places the drug directly into the bloodstream
 - b. Bypasses all barriers to drug absorption
 - 2. Drugs are administered by direct injection with a needle and syringe into an established peripheral IV line **or are given intermittently or by continuous infusion through an established peripheral line.**
 - 3. Dosage forms for IV administration
 - 4. General principles of IV medication administration
 - 5. Steps in performing administration of medications into an established IV line
 - 6. Steps in performing administration of medication by a heparin/saline lock
 - 7. **Steps in adding a medication to an IV bag, bottle, or volume control**
 - 8. **Steps in adding a medication with a piggyback or secondary set**
 - 9. Steps in changing to the next container of IV solution
 - 10. Steps in administering medication by a venous access device
 - a. Equipment
 - b. Technique
 - 11. Complications
 - c. Phlebitis or infection
 - d. Extravasation
 - e. Air in tubing
 - f. Circulatory overload and pulmonary edema
 - g. Allergic reaction
 - h. Pulmonary embolism
 - i. Failure to infuse properly
- H. Administration of medication by the intraosseous route
 - 1. Any IV solution or drug that can be administered by the intraosseous route
 - 2. Purpose for the intraosseous route
 - a. Shock
 - b. Status epilepticus
 - c. Other conditions
 - 3. Equipment needed
 - 4. Anatomical sites
 - 5. General principles of administering an IV solution or medication administration via the intraosseous route
 - 6. Steps in performing administration of medications by the intraosseous route
 - a. Need for injection of medication with saline flush
 - b. Need for administration of fluids
 - 7. Complications
 - a. Phlebitis or infection

