

Southern Illinois Regional EMS System

II-8 ADMINISTRATION OF MEDICATION BY IV INFUSION

1. Policy:
 - 1.1. To establish guidelines for administration of medications in a slower and more controlled manner than IV push.
2. Equipment:
 - 2.1. Gloves and full face protection.
 - 2.2. Medication to be administered.
 - 2.3. Syringe to transfer medications or previously prepackaged, assembled syringe with medication.
 - 2.4. Bag of solution or diluent.
 - 2.5. Two needles:
 - 2.5.1. Preferably 18 gauge 1 inch.
 - 2.6. Antiseptic cleansing solution.
 - 2.7. Administration set, extension set.
 - 2.8. Label
 - 2.9. Tape
3. Procedure:
 - 3.1. Put on gloves and full face protection.
 - 3.2. Assemble all necessary supplies and equipment:
 - 3.2.1. Check for:
 - 3.2.1.1. Correct medication, or fluid.
 - 3.2.1.2. Expiration date.
 - 3.2.1.3. Seal leakage.
 - 3.2.1.4. Contamination.
 - 3.2.1.5. Abnormal color.
 - 3.2.1.6. Cloudiness.
 - 3.3. Assess IV for patency.
 - 3.4. Confirm the order/dosage by writing it down.
 - 3.5. Ascertain from the patient if he/she has an allergy to the medication or fluid you are to administer.
 - 3.6. Explain to the patient:
 - 3.6.1. The medication administration procedure.
 - 3.6.2. Advise patient of effects and possible side effects that may result.
 - 3.7. Obtain the fluid or medication.
 - 3.8. If you are using an ampule:
 - 3.8.1. Shake it down:
 - 3.8.1.1. This will force the solution to the lower portion to prevent spillage.
 - 3.9. Using one 4X4 gauze pad or alcohol prep:
 - 3.9.1. Break the ampule.
 - 3.9.2. Affix the 18 gauge needle to the syringe:
 - 3.9.3. Withdraw the solution from the ampule.
 - 3.10. If you are withdrawing the medication from a multi dose vial:
 - 3.10.1. Remove the top of the vial.
 - 3.10.2. Cleanse the rubber top of the medication vial with the antiseptic cleansing solution.
 - 3.10.3. Draw up air into your syringe with needle attached to equal the amount of fluid that is to be withdrawn.

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- 3.10.4. Insert the needle into the vial:
 - 3.10.4.1. Invert the vial.
 - 3.10.4.2. Instill the drawn up air into the vial.
 - 3.10.4.3. Keep the needle below the fluid level.
 - 3.10.4.4. Withdraw the required amount of medication or fluid.
 - 3.10.4.5. Withdraw the syringe and needle and invert the syringe and expel any air.
- 3.10.5. Locate a medication port on the IV bag and cleanse with antiseptic solution.
- 3.10.6. Insert needle with syringe into the medication port.
- 3.10.7. Inject the required amount of medication into the IV bag.
- 3.10.8. Remove the syringe and needle from the medication port:
 - 3.10.8.1. DO NOT RECAP THE NEEDLE:
 - 3.10.8.1.1. Dispose of the needles and syringe in a puncture resistant bio hazard container.
- 3.11. Monitor the patient for:
 - 3.11.1. The desired therapeutic effects
 - 3.11.2. Possible side effects.
 - 3.11.3. Potential complications.
4. Documentation:
 - 4.1. Who attempted/performed task.
 - 4.2. Name, concentration and dosage of medication.
 - 4.3. Any complications or undesired side effects.
 - 4.4. Were desired therapeutic effects attained?
 - 4.5. Time medication administered.
 - 4.6. Label the bag with medication information:
 - 4.6.1. Name of medication.
 - 4.6.2. Amount and concentration of medication.
 - 4.6.3. Your name.
 - 4.6.4. Time medication added.
 - 4.6.5. Flow rate for IV fluids.