

Southern Illinois Regional EMS System

II-14 ENDOTRACHEAL ADMINISTRATION OF MEDICATIONS

1. Policy:
 - 1.1. To establish guidelines for endotracheal administration of medications when a patient IV cannot be established in a timely manner during respiratory and/or cardiac arrest scenario.
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.
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. Confirm the order/dosage by writing it down.
 - 3.4. Ascertain from a family member or other means (medical ID tags or bracelets) if the patient has an allergy to the medication or fluid you are to administer.
 - 3.5. Prepare the prefilled cartridge or syringe of medication.
 - 3.6. Assess patient to determine the necessity for endotracheal administration of medication:
 - 3.6.1. Medication cannot be given by intravenous route.
 - 3.6.2. Medication is compatible with endotracheal administration.
 - 3.7. Administer the medication via the ET tube:
 - 3.7.1. Total volume instilled should be between:
 - 3.7.1.1. 10 and 20ml in the adult patient.
 - 3.7.1.2. 3 and 10ml in the child.
 - 3.7.2. Hyperventilate the patient for 29-30 seconds and remove the bag-valve-mask unit.
 - 3.7.3. Instill the medication into the ET tube.
 - 3.7.4. Reattach the bag-valve-mask unit and promptly resume ventilations.
 - 3.7.4.1. Ventilate the patient using 100% oxygen and wait 1-2 minutes before suctioning via the endotracheal tube.
 - 3.7.5. Monitor the patient for:
 - 3.7.5.1. The desired therapeutic effects.
 - 3.7.5.2. If patient has any lung capacity compromise, it may be difficult to administer the entire contents of the syringe.
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.