MFR & Basic EMT-Epinephrine Study

Epinephrine

Protocols:
1. Anaphylaxis/Allergic Reaction
2. Shock
3. Respiratory Distress (Adult)
4. Pediatric Respiratory Distress, Failure, or Arrest
5. Adult Cardiac Arrest – General
6. Adult Bradycardia
7. Pulmonary Edema/CHF
8. Return of Spontaneous Circulation
9. Pediatric Cardiac Arrest - General
10. Pediatric Bradycardia
11. Neonatal Assessment and Resuscitation

Indications:
1. Anaphylaxis
2. Bradycardia
3. Respiratory distress
4. Hypotension
5. Cardiac arrest

Contraindications:
1. No contraindications in critical patients

Dosing:
1. Epinephrine auto-injector, may assist the patient in use of their own auto-injector
   a. Adults 0.3 mg, IM
   b. Pediatrics
      i. 0.15 mg, IM
      ii. Pediatric auto-injector indicated for patients greater than 10 kg (approx. 20 lbs.) and less than 30 kg (approx. 60 lbs.).
2. Epinephrine 1mg/1mL MFR & Basic EMT-Epinephrine Study
   a. Adults 0.3 mg (0.3 mL), IM
   b. Pediatrics
      i. For patients less than 10 kg (approx. 20lbs.) contact medical control prior to Epinephrine administration, if possible.
      ii. For patients between 10-30 kg (approx. 20-60 lbs.), administer Epinephrine 1 mg/mL, 0.15 mg (0.15 mL) IM.
iii. If the child weighs greater than 30 kg (approx. 60 lbs.), administer Epinephrine 1 mg/mL, 0.3 mg (0.3 mL) IM.

3. Nebulized (Croup)
   a. Racepinephrine 2.25%
      i. Place 0.5 mL in nebulizer
      ii. Dilute with 3 mL normal saline

b.

4. Epinephrine 1mg/10mL
   a. IV Bolus
      i. Adults 1 mg (10 mL), every 3 to 5 minutes in cardiac arrest
      ii. Pediatrics 0.01 mg/kg (0.1mL/kg) every 3 to 5 minutes, refer to the MI-MEDIC Cards for proper dosing.

b.

5. Push Dose Epinephrine
   a. Push dose
      i. Prepare Epinephrine 10 mcg/mL by combining 1 mL of Epinephrine 1mg/10mL with 9 mL NS.
      ii. Adults
         1. Administer Epinephrine 10-20 mcg (1-2 mL of Epinephrine 10 mcg/mL)
         2. Repeat every 3 to 5 minutes
         3. Titrate to SBP greater than 90 mm/Hg
      iii. Pediatrics
         1. Administer Epinephrine 1 mcg/kg (0.1 mL/kg of Epinephrine 10 mcg/mL)
         2. Maximum dose 10 mcg (1 mL), refer to MI-MEDIC cards for proper dosing.
         3. Repeat every 3-5 minutes

Expected Effects:
1. Decreased wheezing
2. Increased BP
3. Increased HR