

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 (Protocols 1, 3, 4, MFR per MCA selection in protocol 1)
 - a. Adults 0.3 mg, IM
 -  b. Pediatrics
 - i. 0.15 mg, IM
 - ii. Pediatric auto-injector indicated for patients greater than 10 kg and less than 30 kg
-  2. Epinephrine 1mg/1mL (Protocols 1, 3, 4)
 - a. Adults 0.3 mg IM
 -  b. Pediatrics
 - i. For patients less than 10 kg contact medical control prior to administration
 - ii. For patients greater than 10 kg, administer 0.01 mg/kg, up to 0.3 mg
-  3. Nebulized (Protocol 4)
 - a. Racementepinephrine 2.25%
 - i. Place 0.5 mL in nebulizer
 - ii. Dilute with 3 mL normal saline
 - b. Epinephrine (1mg/1mL), 5 mL (5 mg) nebulized

4. Epinephrine 1mg/10mL
 - a. IV Bolus (Protocols 5, 9, 10, 11)
 - i. Adults 1 mg every 3 to 5 minutes in cardiac arrest
 -  ii. Pediatrics 0.01 mg/kg (0.1mL/kg)
 - b. Push dose (Protocols 2, 6, 8)
 - i. Prepare by combining 1 mL of Epinephrine 1 mg/10 mL with 9 mL NS
 - ii. Adults
 1. Administer 10-20 mcg (1-2 mL Epinephrine 10 mcg/mL)
 2. Repeat every 3 to 5 minutes
 3. Titrate to SBP greater than 90 mm/Hg
 -  iii. Pediatrics
 1. Administer 1 mcg/kg (0.1 mL/kg Epinephrine 10 mcg/mL)
 2. Maximum dose 10 mcg (1 mL)
 3. Repeat every 3-5 minutes

Expected Effects:

1. Decreased wheezing
2. Increased BP
3. Increased HR