

## **Anaphylaxis/Allergic Reaction**

1. Follow **General Pre-hospital Care Protocol**.
2. Determine substance or source of exposure, remove patient from source if known and able.
3. In cases of severe allergic reaction, wheezing or hypotension, administer epinephrine via auto-injector.
4. Assist the patient in administration of their own epinephrine auto-injector, if available.




5. **\*MCA Approval for MFR epinephrine auto-injector (Agency Option).**


**MCA Approval of Epinephrine Auto-injector for Select MFR Agencies**  
**(Provide participating agency list to BETP)**

YES

NO

-  a. If child appears to weigh less than 10 kg (approx. 20 lbs.), contact medical control prior to epinephrine, if possible.
  - b. If child weighs between 10-30 kg (approx. 60 lbs.); administer pediatric epinephrine auto-injector.
  - c. For adults and children weighing greater than 30 kg; administer epinephrine auto-injector.
  - d. May repeat at 3-5 minute intervals if the patient remains hypotensive, if available.
6. Albuterol may be indicated. Refer to **Nebulized Bronchodilators Procedure**.



7. Administer a Normal Saline IV/IO fluid bolus.
  - a. The standard NS IV/IO fluid bolus volume will be up to 1 liter, wide open, repeated as necessary, unless otherwise noted by protocol. IV/IO fluid bolus is contraindicated with pulmonary edema.
  -  b. Fluid should be slowed to TKO when SBP greater than 90 mm/Hg.
  - c. For pediatrics, fluid bolus should be 20 mL/kg, and based on signs/symptoms of shock.
8. In cases of suspected anaphylaxis with hypotension, severe respiratory distress, and/or angioedema, administer Epinephrine.
  - a. Adult (1mg / 1mL), 0.3 mg (0.3 mL) IM. May repeat 1 time in 3-5 minutes if patient is still hypotensive.



- b. Pediatric
  - i. For children less than 10 kg (approx. 20 lbs.), contact medical control prior to epinephrine if possible.
  - ii. For children weighing less than 30 kg (approx. 60 lbs.); administer Epinephrine (concentration of 1mg/1mL) 0.15 mg (0.15mL) IM OR administer pediatric epinephrine auto-injector, if available.
  - iii. Child weighing 30 kg or greater; administer Epinephrine (concentration of 1mg/1mL) 0.3 mg (0.3 mL) IM OR via epinephrine auto-injector if available.
  - iv. May repeat 1 time in 3-5 minutes if patient is still hypotensive.



9. If patient is symptomatic, administer Diphenhydramine.

a. Adult 50 mg IM or IV/IO.




b. Pediatric 1 mg/kg IM/IV/IO (maximum dose 50 mg).  
10. Per MCA selection, administer bronchodilator per **Nebulized Bronchodilators Procedure**.

11. Per MCA Selection, administer Prednisone **OR** methylprednisolone.

**Medication Options:**

**Prednisone 50 mg tablet PO**  
**(Children > 6 y/o)**

**Methylprednisolone**  
**Adult 125 mg IV or**  
 **Pediatric 2 mg/kg IV (max 125 mg)**

12. For MCA with both selected, Prednisone PO is the preferred medication. Methylprednisolone is secondary and reserved for when a PO route is inappropriate.

13. If patient remains hypotensive after treatment, refer to **Shock Protocol**.



14. If patient is symptomatic after treatment without hypotension.



a. Additional epinephrine via auto-injector.



b. Additional epinephrine (1mg / 1 mL), 0.3 mg (0.3 mL) IM.

\*MCA approval required for MFR auto-injector use.

