



QR code for mobile view

**Abbreviations (lab & radiology excluded):**

**CR:** Cardiorespiratory  
**Epi:** Epinephrine  
**ED:** Emergency Department  
**IM:** Intramuscular  
**LOC:** Level of Care  
**Pts:** Patients

Pts >3 months old with suspected anaphylaxis  
*For Oncology Pts with Infusion Reaction refer to specific CPM*

**Rapid Assessment**  
Consider activating emergency response and/or arranging transfer to higher level of care if needed.

1. Give Epi IM mid-outer thigh
    - a. IM Epi Dosing
      - <7.5 kg: 0.01 mg/kg (if wt based dose not available, use lowest dose auto injector)
      - 7.5 - <30 kg: 0.15 mg (if not available, use 0.3mg)
      - ≥ 30 kg: 0.3 mg
  2. Place patient in supine position, if tolerated, and avoid sudden changes in position (i.e. standing, ambulating)
  3. Provide supplemental O<sub>2</sub> if respiratory or cardiovascular symptoms
  4. Place CR monitor
  5. Obtain vital signs including blood pressure q 5-15 min
  6. Consider placing IV & give 20 ml/kg NS fluid bolus  
*\*When to obtain tryptase*
- Steroids and antihistamines are not routinely indicated**

Re-evaluate within 5 min of IM Epi

Anaphylaxis resolved?

If indicated treat secondary symptoms

High risk patients?

Monitor 1-2 hours after anaphylaxis has resolved

Monitor 4 hours after anaphylaxis has resolved

Discharge criteria met?

Anaphylaxis Education  
(Complete education with parents during observation period)

- Prescribe Epi auto-injector
- Discharge with PCP follow-up
- Consider referral to Allergy Clinic

- Repeat IM Epi q 5 min
- Start Epi drip after 3rd IM Epi or continue IM if drip not feasible
- Continue fluid resuscitation
- Consider racemic Epi for stridor due to laryngeal edema
- If pt on beta-blocker, consider glucagon
- Consider alternative diagnosis or continued exposure

If not already started, Activate emergency response for your setting while arranging early [transfer to higher LOC](#)

Continue supportive management and assessment of disposition

**Anaphylaxis Criteria**

1. Sudden onset of illness with involvement of skin, mucosa, or both (i.e. hives, itching, flushing, swollen lips/tongue/uvula)
  - a. Plus at least one of the following:
    - i. Sudden respiratory symptoms
    - ii. Sudden reduced blood pressure or end-organ dysfunction (hypotonia, syncope, incontinence, mottling)

**OR**
2. Two or more of the following after exposure
  - a. Sudden skin or mucosal changes
  - b. Sudden respiratory symptoms (dyspnea, cough, stridor, hypoxemia)
  - c. Sudden reduced blood pressure
  - d. Sudden GI symptoms

**OR**
3. Reduced blood pressure or symptoms after known exposure
  - a. [Age specific low systolic blood pressure](#) or > 30% decrease in systolic blood pressure from baseline

Interventions that do **NOT** treat **anaphylaxis** or prevent biphasic reaction, but may help control **secondary symptoms**:

- Antihistamines for urticaria
  - cetirizine (preferred) **OR**
  - diphenhydramine
- Albuterol for wheezing
- [Glucocorticoids for wheezing with known asthma \(Asthma CPG\)](#)

**High Risk for Severe Anaphylaxis or Biphasic Reaction**

- > 1 Epi dose
- Hypotension during event
- History of biphasic reaction
- History of severe asthma
- Delayed onset of symptoms from exposure (>1 hour or unknown)
- Delay in receiving Epi > 1 hour from onset

**Discharge Criteria**

- Tolerating PO
- Vital signs stable
- No symptom progression (hives may persist)
- Family has access to care
- For pts with asthma ensure they have asthma medication

**ICU Criteria**

- Signs and symptoms of anaphylaxis or shock persist after 2 doses of Epi

**Outside Transfers**

- Consider ED vs PICU (Direct admission to the floor is NOT recommended.)
- Transfer by local EMS or CMH transport (NOT private vehicle)

**Anaphylaxis Education**

- [Epi auto-injector training](#)
- [Anaphylaxis Action Plan](#)