

PEDIATRIC ALLERGIC REACTION / ANAPHYLAXIS

Effective: January 1, 2025
Replaces: April 27, 2017

1. Patient Care Goals

- 1.1. Provide timely therapy for potentially life-threatening reactions to known or suspected allergens to prevent cardiorespiratory collapse and shock
- 1.2. Provide symptomatic relief for symptoms due to known or suspected allergens

2. BLS Treatment

- 2.1. Routine Medical Care – Pediatric (**700-S05**)
 - 2.1.1. **Oxygen** – titrate as appropriate
- 2.2. Treat for signs and symptom of shock as necessary (**700-P10**)
- 2.3. Place patient in a position that decreases work of breathing

3. ALS Treatment

- 3.1. **Vascular Access (IV) or Vascular Access (IO)**, per procedure (**700-M13**)

4. Allergic Reaction (Rash, itching or swelling)

- 4.1. **Diphenhydramine 1mg/kg, IVP or IM**, max dose of 50mg
- 4.2. For wheezing and mild respiratory distress, **Albuterol 2.5mg in 3ml normal saline** via nebulizer device

5. Anaphylaxis (Respiratory distress, difficulty swallowing, tightness to chest or throat)

- 5.1. **Epinephrine (1:1,000) 0.01mg/kg IM**, may repeat every 10 minutes, max dose 0.3mg
- 5.2. For persistent wheezing and respiratory distress:
 - 5.2.1. **Albuterol 2.5 mg in 3ml normal saline** via nebulizer device or BVM
- 5.3. **Diphenhydramine 1mg/kg IV / IO / IM**, max dose 50mg, for hives and/or itching

6. Anaphylactic Shock

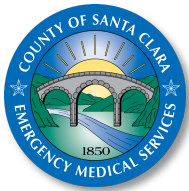
- 6.1. If signs of shock are present:
 - 6.1.1. **Epinephrine (1:1,000) 0.01mg/kg IM**, max single dose 0.3mg
 - 6.1.2. **20ml/kg Fluid bolus, IV / IO**, max of 250ml
- 6.2. If vital signs do not improve after 10 minutes post epinephrine and fluid bolus:
 - 6.2.1. **BASE CONTACT: Epinephrine (1:10,000) 0.01mg/kg Slow IV / IO**, max single dose 0.1mg

7. Pertinent Assessment Findings

- 7.1. Presence or absence of angioedema
- 7.2. Presence or absence of respiratory compromise
- 7.3. Presence or absence of circulatory compromise
- 7.4. Localized or generalized urticaria
- 7.5. Response to therapy

8. Key Documentation Elements

- 8.1. Medications given
- 8.2. Dose and concentration of epinephrine given
- 8.3. Route of epinephrine administration



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- 8.4. Time of epinephrine administration
 - 8.5. Signs and symptoms of the patient



9. Pediatric Allergic Reaction / Anaphylaxis Treatment Flow Chart

