

Allergic Reaction and Anaphylaxis

ADULT

PEDIATRIC

BLS Procedures

Administer oxygen as indicated

Anaphylaxis: Assist patient with prescribed epinephrine auto-injector, or

- If under 30 kg – Epinephrine 1 mg/mL
 - IM - 0.15 mg via auto-injector, pre-filled syringe, or syringe/vial draw
 - May repeat x 1 in 5 minutes if patient remains in distress
- If 30 kg and over – Epinephrine 1mg/mL
 - IM - 0.3mg via auto-injector, pre-filled syringe, or syringe/vial draw
 - May Repeat x 1 in 5 minutes if patient remains in distress

ALS Standing Orders

IV/IO access

Allergic Reaction:

Benadryl

- IV/IO/IM – 50 mg

IV/IO Access

Allergic Reaction:

For patients ≥ 6 months of age

Benadryl

- IV/IO/IM – 1 mg/kg
- Max 50 mg

Anaphylaxis without shock:

Epinephrine 1 mg/mL, if not already administered by BLS personnel

- IM - 0.3 mg
- May repeat q 5 minutes if patient remains in distress

Albuterol (if wheezing is present)

- Nebulizer – 5 mg/6 mL
- May repeat as needed

Anaphylaxis with Shock:

Epinephrine 10mcg/mL

- 1mL (10mcg) every 2 minutes, slow IV/IO push
- Titrate to SBP of greater than or equal to 90mm/Hg

- Initiate 2nd IV/IO

Normal Saline

- IV/IO bolus – 1 Liter
- May repeat x 1 as indicated

Anaphylaxis without Shock:

Epinephrine 1 mg/mL, if not already administered by BLS personnel

- IM – 0.01 mg/kg up to 0.3mg
- May repeat q 5 minutes if patient remains in distress

Albuterol (if wheezing is present)

- Patient ≤ 30 kg
 - Nebulizer – 2.5 mg/3 mL
 - Repeat as needed
- Patient > 30kg
 - Nebulizer – 5 mg/6 mL
 - Repeat as needed

Anaphylaxis with Shock:

Epinephrine 10mcg/mL

- 0.1mL/kg (1mcg/kg) every 2 minutes, slow IV/IO push
- Max single dose of 1mL or 10mcg
- Titrate to SBP of greater than or equal to 80 mm/Hg

- Initiate 2nd IV if possible or establish IO

Normal Saline

- IV/IO bolus – 20 mL/kg
- May repeat x 1 as indicated

Base Hospital Orders Only

Consult with ED Physician for further treatment measures

Additional Information

- In cases of anaphylaxis or anaphylactic shock do not delay epinephrine administration. Utilize IM Epinephrine prior to other medications or prior to IV/IO epinephrine. Epinephrine is the priority in patients with anaphylaxis.
- Refer to VCEMS Policy 735 for additional information on preparing push dose epinephrine solution.

Effective Date: October 7, 2021
Next Review Date: September 30, 2023

Date Revised: September 9, 2021
Last Reviewed: September 9, 2021



VCEMS Medical Director