Any signs or symptoms of hypersensitivity reaction/allergic reaction, call On-Call Physician STAT, notify attending physician and MERIT/Code as appropriate.

If a patient is unresponsive at any point, call a “code” as appropriate for your area.

**PRESENTING SYMPTOMS**

- STOP Infusion and monitor vital signs every 5 minutes
- Contact appropriate Team

- Itching (urticaria), facial flushing, and/or hives (rash)
- Hypotension, wheezing, shortness of breath, facial/lip/tongue swelling
- Other signs or symptoms of HSR/allergic reaction

**Give:**
- Diphenhydramine 1 mg/kg (maximum 50 mg/dose) IV push over 2 minutes

**Improvement within 5 minutes?**

**No**
- Give: Hydrocortisone 2 mg/kg (maximum 100 mg/dose) IV push over 30 seconds

**Epinephrine (1: 1,000) 0.01 mL/kg (maximum 0.5 mL/dose) subcutaneously OR intramuscularly**

**Yes**
- Give: Epinephrine (1: 1,000) 0.01 mL/kg (Maximum 0.5 mL/dose) subcutaneously OR intramuscular OR IV push over 5 minutes (patient in shock), followed by,
- Diphenhydramine 1 mg/kg (maximum 50 mg/dose) IV push over 2 minutes (if not administered within last 30 minutes), followed by,
- Hydrocortisone 2 mg/kg (maximum 100 mg/dose) IV push over 30 seconds

**Note:** Utilize HSR/Allergy Kit in Pyxis and order set

**Additional orders per on-call physician**

**Documentation**

1. Use HSR/Allergy Order Set to document management utilized for an individual patient.
2. Document event as an Observed Adverse Drug Reaction (ADR)

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1. HSR/Allergy Kit includes the following (all in tamper-evident bag):
   - Epinephrine 1:1000 vial
   - Diphenhydramine 50 mg vial
   - Hydrocortisone 100 mg vial
   - Tuberculin syringe (1 mL) with needle

2. Hypotension defined as:
   - Age 0 to 28 days: SBP less than 60 mmHg
   - Age 1 to 12 months: SBP less than 70 mmHg
   - Age 1 to 10 years: SBP less than [70 + (2 x age in years)] mmHg
   - Age greater than 10 years: SBP less than 90 mmHg

3. Hypotension defined as:
   - Age 0 to 28 days: SBP less than 60 mmHg
   - Age 1 to 12 months: SBP less than 70 mmHg
   - Age 1 to 10 years: SBP less than [70 + (2 x age in years)] mmHg
   - Age greater than 10 years: SBP less than 90 mmHg

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**Appropriate team:**
- PICS – ICU Attending
- PATC – SuperDoc
- Clinic – Doc of Day
- G9 – Inpatient General Oncology fellow or Cell Therapy Fellow or APP

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Department of Clinical Effectiveness V6
Approved by The Executive Committee of the Medical Staff 07/26/2016
SUGGESTED READINGS

Joint Task Force on Practice Parameters, American Academy of Allergy Asthma and Immunology, American College of Allergy Asthma and Immunology, Joint Council of Allergy Asthma and Immunology. The diagnosis and management of anaphylaxis: an updated practice parameter. *J Allergy Clin Immunol*, 2005; 115:S483–S523.
This practice consensus algorithm is based on majority expert opinion of the Pediatric Hypersensitivity work group at the University of Texas MD Anderson Cancer Center. It was developed using a multidisciplinary approach that included input from the following experts:

- Cynthia Herzog, M.D.†
- Rodrigo Mejia, M.D.
- Demetrios Petropoulos, M.D.
- Maria Estela Ceja, Pharm D
- Laura Worth, M.D., PhD.

† Physician Lead