

Peri Operative Anaphylaxis (POA) Challenge Protocol

Admission Checklist

7 days prior:

- 1) CST: Message Center "subject": fill out **Encounter Creation Request**
- 2) Notify PACU charge nurse of patient and date

Day of testing:

- 1) Patient to check in at admitting
- 2) Provide patient instructions to go to third floor JPPN PCC
- 3) CST: update allergies, covid assessment form
- 4) H face documentation: Fill out paper
- 4) Discharge criteria determined by Anesthesiologist

High Risk Challenge:

1. Patient comorbidities: CAD, Pulmonary HTN, Severe Asthma.
2. High risk allergen: Neuromuscular blocking agent, opioid, and intravenous challenge.
3. History of severe anaphylaxis requiring intensive care support.

Reaction to Challenge

No reaction

Allergic Reaction

Discharge Criteria:

1. **ONE** hour observation period with no symptoms or signs of anaphylaxis.

Anaphylaxis Treatment

Stable

High Risk or Refractory

Discharge Home

Discharge Criteria:

1. No hypotension with initial event, rule out postural hypotension.
2. **One hour** Complete symptom resolution of anaphylaxis
3. **Four hours** from administration of epinephrine
4. Only one administration of epinephrine
5. Discharge instructions including instructions to return to emergency room department, allergen avoidance, and epi-pen prescription.

High Risk:

- Hypotension
- Severe bronchospasm with hypoxemia
- Require >2 doses of Epinephrine to subside symptoms
- Symptoms requiring Epinephrine infusion
- Patient lives >60 minutes away from an acute care centre

Consult ICU/HAU for observation

References:

1. Lee J, Rodio B, Lavelle J, Lewis MO, English R, Hadley S, Molnar J, Jacobstein C, Cianferoni A, Spengel J, Zielinski L, Tsarouhas N, Brown-Whitehorn T. Improving Anaphylaxis Care: The Impact of a Clinical Pathway. Pediatrics. 2018 May;141(5):e20171616. doi: 10.1542/peds.2017-1616. Epub 2018 Apr 3. PMID: 29615480
2. <https://www.chop.edu/clinical-pathway/anaphylaxis-emergent-care-clinical-pathway>
3. Resuscitation Council UK. Accessed at https://www.resus.org.uk/sites/default/files/2021-05/Emergency%20Treatment%20of%20Anaphylaxis%20May%202021_0.pdf

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