

ALLERGIC REACTION & ANAPHYLAXIS

ALS

ALWAYS USE BODY SUBSTANCE ISOLATION PRECAUTIONS

INDICATION

- Urticaria, wheezing or signs and/ or shock after exposure to common allergens (stings, drugs, nuts, seafood, medications)

CRITICAL INFORMATION

- Respiratory: wheezing, stridor, respiratory distress
- Skin: itching, hives, rash
- Symptoms indicating early shock such as nausea, weakness, anxiety
- Past history of severe allergic reactions and hospitalizations

TREATMENT

- Mild: hives, rash
 - ALS RMC
 - **Benadryl** 50 mg IM/IV
- Moderate: hives, rash, mild bronchospasm/ wheezes, normotensive
 - ALS RMC
 - **Benadryl** 50 mg IM/IV
 - **Epinephrine** 1:1,000 IM 0.01mg/kg (max 0.5 mg)
 - **Albuterol** 5 mg/6 ml NS via HHN, if indicated for respiratory symptoms
- Severe (Anaphylaxis)
 - ALS RMC
 - Treat dysrhythmias per appropriate protocol
 - High flow O₂; advanced airway as needed
 - **Epinephrine** 1:1,000 IM 0.01mg/kg (max. 0.5 mg)
 - Large bore IV and fluid challenge 250-500 ml; MR
 - If unresponsive/ no palpable BP /no palpable pulse: **Epinephrine (1:10,000)** 0.01 mg/kg IV/IO (max 0.5 mg)
 - **Albuterol** 5 mg/ 6ml NS via HHN, repeat if indicated
 - **Benadryl** 50 mg IV/IO/IM
 - If hypotension persists after two fluid challenges, begin **Dopamine** infusion at 10 mcg/ kg/ min. Monitor BP every five (5) minutes.

DOPAMINE			
400 mg in 250 cc D5W (pre-mixed)		60 drops/min = 60 cc/hr	
Weight (kg)	gtts/min to = 10 ug/kg/min	Weight (kg)	gtts/min to = 10 ug/kg/min
35-44	15 gtts/min	85-94	35 gtts/min
45-59	20 gtts/min	95-109	40 gtts/min
60-74	25 gtts/min	110 & up	45 gtts/min
75-84	30 gtts/min		

SPECIAL CONSIDERATION

- **Epinephrine** may cause anxiety, tremors, palpitations, tachycardia, and headache in the elderly (> 50yrs), and may precipitate AMI, hypertensive crisis and dysrhythmias.
- Confirm proper dilution and dose of **Epinephrine** prior to administration
- Edema of any of the soft structures of the upper airway may be lethal. Frequently assess and prepare for early intubation.

DOCUMENTATION- ESSENTIAL ELEMENTS

- Pulse oximetry
- Level of distress (mild, moderate, severe) & associated respiratory distress findings