**BRONCHOSPASM/ASTHMA/COPD**

**Indications**
- Acute or progressive shortness of breath, chest discomfort, wheezing, cyanosis

**ALS RMC**

**Mild to Moderate**
- Pt may be unable to speak full sentences
- Minimal accessory muscle use

- **Albuterol 5mg in 6ml NS HHN**
- **MR if necessary**
- **Atrovent 500mcg (2.5ml) HHN**

**Severe**
- Altered mental status
- Minimal air movement
- Inability to speak
- Significant desaturation <90%
- Cyanosis

- **Consider CPAP**
- **Albuterol 5mg in 6ml NS HHN**
- **MR if necessary**
- **Atrovent 500mcg (2.5ml) HHN**
- If **Albuterol** and **Atrovent** not effective:
  - **Epinephrine 0.3mg IM**
  - (1mg/ml concentration)
  - **MR once in 5 min**

**SPECIAL CONSIDERATIONS**
- Do not repeat **Albuterol/Atrovent** if significant tachycardia or chest pain
- **Epinephrine** side effects may include anxiety, tremor, tachycardia, HTN and headache
- Consider use of patient actuated nebulizer with prolonged scene times and/or transport times over 10 minutes.
- Suspected carbon monoxide in cases of exposure to fire or smoke in confined areas; pulse oximetry in these settings is not accurate measure of respiratory status