

# Albuterol Sulfate

## Formulary

Douglas County Kansas EMS System

March 2021

**Approved Provider:** EMT, AEMT, Paramedic

**Referenced Protocols:** [Anaphylaxis](#), [Breathing difficulty](#), [CHF](#), [Crush Syndrome](#)

Dosing and Administration	
<b>ADULT Medications:</b> <ul style="list-style-type: none"><li>2.5 mg in 3cc NS repeat PRN</li></ul>	<b>PEDIATRIC Medications:</b> Refer to HandTevy <ul style="list-style-type: none"><li>2.5 mg in 3cc NS repeat PRN</li></ul>

### **Pharmacology and Actions:**

- Bronchodilation through beta 2 mediated smooth muscle relaxation
- Albuterol also has some Beta-1 agonist activity which can increase myocardial contractility, irritability, and rate

### **Indications:**

- Bronchospasm due to any etiology including: asthma, COPD, allergic reactions and pulmonary infections

### **Contraindications:**

- None

### **Precautions:**

- Do not neglect Oxygen administration, airway control, and proper ventilation
- Use with caution (i.e. close monitoring of vital signs, patient condition, and EKG monitor) in patients with coronary artery disease, dysrhythmias, hypertension, prior recent beta adrenergic drug use, monoamine oxidase inhibitor use, or tricyclic antidepressant use

### **Administration:**

- Acceptable routes include nebulizer and patients metered dose inhaler (MDI)

### **Side Effects:**

- Tremors
- Nervousness
- Nausea
- Vomiting
- Cardiac irritability or tachycardia dysrhythmias may manifest and warrant termination of treatment