



Jackson Hole Fire/EMS Operations Manual

Approved by: Will Smith
Will Smith, MD, Medical Director

Approved by: Brady Hansen
Brady Hansen, Chief

Title: **Medication Protocol:
Albuterol**

Division: 17

Article: 1.4

Revised: March 2020

Pages: 2

ALBUTEROL (Medication Protocol)

EMT PROVIDERS

EMT MAY ASSIST PATIENTS WITH THEIR METER DOSE INHALERS UNDER THE FOLLOWING CIRCUMSTANCES:

- The medication is prescribe to the patient
- The medication is not expired
- The patient has symptoms that indicate the use of this medication and there are no contraindications
- The patient has not exceeded dose and the EMT will deliver the proper dose via the proper route
- **YOU HAVE RECEIVED VOICE AUTHORIZATION AS STATED BELOW**

ADVANCED EMT/EMT-INTERMEDIATE PROVIDERS

STANDING ORDER FOR FIRST TREATMENT

PARAMEDIC PROVIDERS

STANDING ORDER

CLASS: Sympathomimetic, bronchodilator, β_2 -agonist

**PHARMACOLOGY/
ACTIONS:** Albuterol is a sympathomimetic that is selective for β_2 -adrenergic receptors. It relaxes smooth muscles of the bronchial tree and peripheral vasculature by stimulating adrenergic receptors of the sympathetic nervous system.

ONSET/DURATION: Onset: 5 - 15 min / Duration: 3 – 4 hrs

**USE IN FIELD/
INDICATIONS:** Relief of bronchospasm in patients with reversible obstructive airway disease

CONTRAINDICATIONS: Hypersensitivity, cardiac dysrhythmias associated with tachycardia

SIDE EFFECTS: Restlessness, apprehension, dizziness, palpitations, tachycardia, dysrhythmias

DRUG INTERACTIONS: Other sympathomimetics may exacerbate adverse cardio vascular effects. Antidepressants may potentiate effects on the vasculature (vasodilation). β -blockers may antagonize albuterol. May potentiate diuretic-induced hypokalemia

ROUTE: Inhalation

DOSAGE:	ADULT	PEDIATRIC (<45 kg)
	MDI: 1-2 inhalations (90-180 mcg) q 15-60 minutes Use spacer if available. Nebulizer: 2.5 mg (0.5 mL of 0.5% solution) diluted to 3 mL with 0.9% NS (0.083% solution); administer over 5-15 min; may be repeated q 20 min X 3 Note: In setting of severe asthma exacerbations, continue inhalations prn or continuous nebulized Albuterol may be indicated as well as other treatments as indicated.	MDI: 1-2 inhalations (90-180 mcg) q 15-60 minutes Mask and spacer may be used. Nebulizer: 2.5 mg (0.5 mL of 0.5% solution) diluted to 3 mL with 0.9% NS (0.083% solution); administer over 5-15 min; may be repeated q 20 min X 3 Note: In setting of severe asthma exacerbations, continue inhalations prn or continuous nebulized Albuterol may be indicated as well as other treatments as indicated.

PREGNANCY SAFETY: Category C – give only if potential benefits justifies risk to fetus

COMMENTS: Consider use in combination with Ipratropium (Atrovent).
May precipitate angina pectoris and dysrhythmias.
Use caution in patients with diabetes mellitus, hyperthyroidism, prostatic hypertrophy, seizure disorder, or cardiovascular disorders.
Spacer use is desirable with metered-dose inhalers as it will increase drug delivery.
Leave MDI with patient at receiving facility or other location.