

Southern Illinois Regional EMS System

JJ-2 ALBUTEROL

Class:

- Sympathomimetic, bronchodilator, beta₂-agonist.

Description:

- Albuterol is a Sympathomimetic that is selective for beta₂-adrenergic receptors. It relaxes smooth muscles of the bronchial tree and peripheral vasculatures by stimulating adrenergic receptors of the sympathetic nervous system.

Onset and Duration:

- Onset: 5-15 minutes after inhalation.
- Duration: 3-4 hours after inhalation.

Indications:

- Relief of bronchospasm in patients with reversible obstructive airway disease.
- Prevention of exercise-induced bronchospasm.

Contraindications:

- Prior hypersensitivity reaction to albuterol.
- Cardiac dysrhythmias associated with tachycardia.

Adverse Reactions:

- Usually dose related.
- Restlessness, apprehension.
- Dizziness.
- Palpitations, tachycardia.
- Dysrhythmias.

Drug Interactions:

- Other sympathomimetics may exacerbate adverse cardiovascular effects.
- Antidepressants may potentiate effects on the vasculature (vasodilation).
- Beta-blockers may antagonize albuterol.
- Albuterol may potentiate diuretic-induced Hypokalemia.

How Supplied:

- Solution for aerosolization:
 - 0.083% (2.5mg) in 3ml unit dose/nebulizer.

Dosage and Administration:

- Bronchial asthma or COPD:
 - Adult and Pediatric:
 - Nebulized Solution:
 - 2.5mg (0.5ml of 0.5% solution) diluted to 3ml of NS.
 - Administer over 5-15 minutes.
 - May repeat every 20 minutes 3 times.

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JJ-23 PROVENTIL (ALBUTEROL) (continued)

Special Considerations:

- Pregnancy Category C.
- Albuterol may precipitate angina pectoris and dysrhythmias.
- Albuterol should be used with caution in patients with diabetes mellitus, hyperthyroidism, prostatic hypertrophy, seizure disorder, or cardiovascular disorder.
- In prehospital emergency care, albuterol should be administered only via inhalation.