

## •SALBUTAMOL

**Class:** Beta<sub>2</sub> Agonist

### **Indications:**

Treatment or prevention of bronchospasm in patients with reversible obstructive airway disease, prevention of exercise induced bronchospasm.

### **Available dosage form in the hospital:**

-SALBUTAMOL 2MG TAB

-SALBUTAMOL 2MG/5 ML SYRUP

-SALBUTAMOL 4MG TAB

-SALBUTAMOL INHALER

-SALBUTAMOL RESPIRATORY SOLUTION

### **Dosage:**

#### **-Bronchospasm:**

- *Metered-dose inhaler (90 mcg /puff):* 2 puffs every 4-6 hours as needed (NIH Guidelines, 2007):
- *Solution for nebulization:* 2.5 mg 3-4 times daily as needed; Quick relief : 1.25-5 mg every 4 to 8 hours as needed (NIH Guidelines,2007)
- *Oral:* 2-4 mg/dose 3-4 times/day; maximum dose not to exceed 32mg/day (divided doses)

Extended release: 8 mg every 12 hours; maximum dose not to exceed 32 mg/day (divided doses). A 4 mg dose every 12 hours may be sufficient in some patients such as adults of low body weight.

#### **-Exacerbation of asthma (acute, severe)(NIH Guidelines,2007) :**

- *Metered-dose inhaler:* 4-8 puffs every 20 minutes for up to 4 hours, then every 1-4 hours as needed.
- *Solution for nebulization :* 2.5-5 mg every 20 minutes for 3 doses, then 2.5-10 mg every 1-4 hours as needed or 10-15 mg/hour by continuous nebulization.

#### **-Exercise-induced bronchospasm (prevention) :**

- *Metered-dose inhaler (90 mcg/puff):* 2 puffs 5-30 minutes prior to exercise.

## **Geriatric**

Inhalation: Refer to adult dosing.

Bronchospasm (treatment): Oral: 2 mg 3-4 times/day; maximum: 8 mg 4 times/day

## **Renal Impairment**

Use with caution in patients with renal impairment. No dosage adjustment required (including patients on hemodialysis, peritoneal dialysis, or CRRT).

## **Hepatic Impairment**

No dosage adjustment provided in manufacturer's labeling .

## **Common side effect:**

Incidence of adverse effects is dependent upon age of patient, dose, and route of administration.

-Cardiovascular : Angina, atrial fibrillation, arrhythmias, chest discomfort, chest pain, extrasystoles, flushing, hyper-/hypotension, palpitation, supraventricular tachycardia, tachycardia.

-Central nervous system: CNS stimulation, dizziness, drowsiness, headache, insomnia, irritability, lightheadedness, migraine, nervousness, nightmares, restlessness, seizure.

-Dermatologic: Angioedema, rash, urticaria.

-Endocrine and metabolic: Hyperglycemia, hypokalemia, lactic acidosis.

-Gastrointestinal: Diarrhea, dry mouth, dyspepsia, gastroenteritis, nausea, unusual taste, vomiting.

-Genitourinary: Micturition difficulty.

-Local: Injection: pain, stinging.

-Neuromuscular and skeletal: Muscle cramps, musculoskeletal pain, tremor, weakness.

-Otic: otitis media, vertigo.

-Respiratory: Asthma exacerbation, bronchospasm, cough, epistaxis, laryngitis, oropharyngeal edema, pharyngitis, rhinitis, upper respiratory inflammation, viral respiratory infection.

-Miscellaneous: Allergic reaction, anaphylaxis, diaphoresis lymphadenopathy.

**Pregnancy Risk Factor: C**