**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, couph, epistaxis, laryngitis, oropharyngeal edema, pharyngitis, rhinitis, upper respiratory inflammation, viral respiratory infection.

-Miscellaneous: Allergic reaction, anaphylaxis, diaphoresis lymphadenopathy.

Pregnancy Risk Factor: C