

## VENTOLIN ACCUHALER®

**Acute bronchospasm**

## ▶ BY INHALATION OF POWDER

- ▶ Adult: Initially 200 micrograms, up to 4 times daily for persistent symptoms

**Prophylaxis of allergen- or exercise-induced bronchospasm**

## ▶ BY INHALATION OF POWDER

- ▶ Adult: 200 micrograms

- **UNLICENSED USE** Syrup and tablets not licensed for use in children under 2 years. Injection and solution for intravenous infusion not licensed for use in children under 12 years. Administration of undiluted salbutamol injection through a central venous catheter is not licensed.

**IMPORTANT SAFETY INFORMATION**

MHRA/CHM ADVICE: PRESSURISED METERED DOSE INHALERS (PMDI): RISK OF AIRWAY OBSTRUCTION FROM ASPIRATION OF LOOSE OBJECTS (JULY 2018)

See Respiratory system, drug delivery p. 249.

● **CONTRA-INDICATIONS**

- ▶ When used for uncomplicated premature labour under specialist supervision Abruptio placenta · antepartum haemorrhage · cord compression · eclampsia · history of cardiac disease · intra-uterine fetal death · intra-uterine infection · placenta praevia · pulmonary hypertension · severe pre-eclampsia · significant risk factors for myocardial ischaemia · threatened miscarriage

● **CAUTIONS**

**GENERAL CAUTIONS** High doses of beta<sub>2</sub> agonists can be dangerous in some children

**SPECIFIC CAUTIONS**

- ▶ With intravenous use mild to moderate pre-eclampsia (when used for uncomplicated premature labour) · suspected cardiovascular disease (should be assessed by a cardiologist before initiating therapy for uncomplicated premature labour)

- **INTERACTIONS** → Appendix 1: beta<sub>2</sub> agonists

● **SIDE-EFFECTS****GENERAL SIDE-EFFECTS**

- ▶ **Common or very common** Muscle cramps
- ▶ **Rare or very rare** Akathisia · vasodilation
- ▶ **Frequency not known** Metabolic change

**SPECIFIC SIDE-EFFECTS**▶ **Uncommon**

- ▶ When used by inhalation Oral irritation · throat irritation
- ▶ With parenteral use Pulmonary oedema
- ▶ **Frequency not known**
- ▶ With parenteral use Lactic acidosis (with high doses) · vomiting

- **BREAST FEEDING** Inhaled drugs for asthma can be taken as normal during breast-feeding.

- **MONITORING REQUIREMENTS** In uncomplicated premature labour it is important to monitor blood pressure, pulse rate (should not exceed 120 beats per minute), ECG (discontinue treatment if signs of myocardial ischaemia develop), blood glucose and lactate concentrations, and the patient's fluid and electrolyte status (avoid over-hydration—discontinue drug immediately and initiate diuretic therapy if pulmonary oedema occurs).

● **DIRECTIONS FOR ADMINISTRATION**

- ▶ With intravenous use in children For *continuous intravenous infusion*, dilute to a concentration of 200 micrograms/mL with Glucose 5% or Sodium Chloride 0.9%. If fluid-restricted, can be given undiluted through central venous catheter [unlicensed]. For *intravenous injection*, dilute to a concentration of 50 micrograms/mL with Glucose 5%, Sodium Chloride 0.9%, or Water for injections.

- ▶ When used by inhalation For *nebulisation*, dilute nebuliser solution with a suitable volume of sterile Sodium Chloride 0.9% solution according to nebuliser type and duration of administration; salbutamol and ipratropium bromide solutions are compatible and can be mixed for nebulisation.

- ▶ With intravenous use in adults For *bronchodilation by continuous intravenous infusion*, dilute to a concentration of 200 micrograms/mL with glucose 5% or sodium chloride 0.9%. For *premature labour by continuous intravenous infusion*, dilute with glucose 5% to a concentration of 200 micrograms/mL for use in a syringe pump or for other infusion methods (preferably via controlled infusion device), dilute to a concentration of 20 micrograms/mL; close attention to patient's fluid and electrolyte status essential.

- **PATIENT AND CARER ADVICE** For *inhalation by aerosol or dry powder*, advise patients and carers not to exceed prescribed dose and to follow manufacturer's directions; if a previously effective dose of inhaled salbutamol fails to provide at least 3 hours relief, a doctor's advice should be obtained as soon as possible. For *inhalation by nebuliser*, the dose given by nebuliser is substantially higher than that given by inhaler. Patients should therefore be warned that it is dangerous to exceed the prescribed dose and they should seek medical advice if they fail to respond to the usual dose of the respirator solution. Medicines for Children leaflet: Salbutamol inhaler for asthma and wheeze [www.medicinesforchildren.org.uk/salbutamol-inhaler-asthma-and-wheeze](http://www.medicinesforchildren.org.uk/salbutamol-inhaler-asthma-and-wheeze)

- **MEDICINAL FORMS** There can be variation in the licensing of different medicines containing the same drug.

**Tablet**▶ **Salbutamol (Non-proprietary)**

**Salbutamol (as Salbutamol sulfate) 2 mg** Salbutamol 2mg tablets | 28 tablet [PoM] £111.21 DT = £105.03

**Salbutamol (as Salbutamol sulfate) 4 mg** Salbutamol 4mg tablets | 28 tablet [PoM] £113.85 DT = £107.52

**Inhalation powder**▶ **Easyhaler (salbutamol)** (Orion Pharma (UK) Ltd)

**Salbutamol 100 microgram per 1 dose** Easyhaler Salbutamol sulfate 100micrograms/dose dry powder inhaler | 200 dose [PoM] £3.31 DT = £3.31

**Salbutamol 200 microgram per 1 dose** Easyhaler Salbutamol sulfate 200micrograms/dose dry powder inhaler | 200 dose [PoM] £6.63 DT = £6.63

▶ **Salbulin Novolizer** (Mylan)

**Salbutamol (as Salbutamol sulfate) 100 microgram per 1 dose** Salbulin Novolizer 100micrograms/dose inhalation powder | 200 dose [PoM] £4.95 DT = £4.95

Salbulin Novolizer 100micrograms/dose inhalation powder refill | 200 dose [PoM] £2.75

▶ **Ventolin Accuhaler** (GlaxoSmithKline UK Ltd)

**Salbutamol 200 microgram per 1 dose** Ventolin 200micrograms/dose Accuhaler | 60 dose [PoM] £3.60 DT = £3.60

**Solution for injection**▶ **Ventolin** (GlaxoSmithKline UK Ltd)

**Salbutamol (as Salbutamol sulfate) 500 microgram per 1 ml** Ventolin 500micrograms/1ml solution for injection ampoules | 5 ampoule [PoM] £1.91

**Solution for infusion**▶ **Ventolin** (GlaxoSmithKline UK Ltd)

**Salbutamol (as Salbutamol sulfate) 1 mg per 1 ml** Ventolin 5mg/5ml solution for infusion ampoules | 10 ampoule [PoM] £24.81 DT = £24.81

**Oral solution**▶ **Salbutamol (Non-proprietary)**

**Salbutamol (as Salbutamol sulfate) 400 microgram per 1 ml** Salbutamol 2mg/5ml oral solution sugar-free | 150 ml [PoM] £2.15 DT = £1.15

▶ **Ventolin** (GlaxoSmithKline UK Ltd)

**Salbutamol (as Salbutamol sulfate) 400 microgram per 1 ml** Ventolin 2mg/5ml syrup sugar-free | 150 ml [PoM] £1.15 DT = £1.15