

- ▶ Child 12–17 years: Initially 100–200 micrograms, up to 800 micrograms daily for persistent symptoms

Prophylaxis of allergen- or exercise-induced bronchospasm

- ▶ BY INHALATION OF POWDER
- ▶ Child 6–11 years: 100–200 micrograms
- ▶ Child 12–17 years: 200 micrograms

VENTOLIN ACCUHALER®

Acute bronchospasm

- ▶ BY INHALATION OF POWDER
- ▶ Child 5–17 years: Initially 200 micrograms, up to 4 times daily for persistent symptoms

Prophylaxis of allergen- or exercise-induced bronchospasm

- ▶ BY INHALATION OF POWDER
- ▶ Child 5–17 years: 200 micrograms

PHARMACOKINETICS

- ▶ At recommended inhaled doses, the duration of action of salbutamol is about 3 to 5 hours.

- **UNLICENSED USE** Not licensed for use in hyperkalaemia.
- ▶ With oral use Syrup and tablets not licensed for use in children under 2 years.
- ▶ With intravenous use 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)

- ▶ When used by inhalation
See Respiratory system, drug delivery p. 153.

- **CAUTIONS** High doses of beta₂ agonists can be dangerous in some children
- **INTERACTIONS** → Appendix 1: beta₂ 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.
 - **DIRECTIONS FOR ADMINISTRATION**
 - ▶ With intravenous use 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.
 - **PATIENT AND CARER ADVICE**
 - ▶ When used by inhalation 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

- **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 sugar-free | 150 ml [PoM] 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

Pressurised inhalation

- ▶ **Airomir** (Teva UK Ltd)
 - Salbutamol (as Salbutamol sulfate) 100 microgram per 1 dose** Airomir 100micrograms/dose inhaler | 200 dose [PoM] £1.97 DT = £1.50
- ▶ **Airomir Autohaler** (Teva UK Ltd)
 - Salbutamol (as Salbutamol sulfate) 100 microgram per 1 dose** Airomir 100micrograms/dose Autohaler | 200 dose [PoM] £6.02 DT = £6.30
- ▶ **Salamol** (Teva UK Ltd)
 - Salbutamol (as Salbutamol sulfate) 100 microgram per 1 dose** Salamol 100micrograms/dose inhaler CFC free | 200 dose [PoM] £1.46 DT = £1.50
- ▶ **Salamol Easi-Breathe** (Teva UK Ltd)
 - Salbutamol (as Salbutamol sulfate) 100 microgram per 1 dose** Salamol 100micrograms/dose Easi-Breathe inhaler | 200 dose [PoM] £6.30 DT = £6.30
- ▶ **Ventolin Evohaler** (GlaxoSmithKline UK Ltd)
 - Salbutamol (as Salbutamol sulfate) 100 microgram per 1 dose** Ventolin 100micrograms/dose Evohaler | 200 dose [PoM] £1.50 DT = £1.50