

Brodil[®] Accucap

Dry Powder Inhaler
Salbutamol Sulfate

Description

Brodil[®] Accucap dry powder inhaler is a preparation of Salbutamol sulfate. Salbutamol is a relatively selective β_2 adrenoreceptor stimulant. It is more specific than both isoprenaline and orciprenaline for adrenergic β_2 receptors. Salbutamol is a sympathomimetic agent which has a highly selective action on β adrenergic receptors in bronchial muscle. It provides short-acting (4 to 6 hour) bronchodilation with fast onset (within 5 minutes) in reversible airway obstruction. β_2 adrenoreceptor agonist is used in the treatment of asthma and other forms of diffuse reversible airways obstruction.

Indication

Brodil[®] Accucap inhaler is indicated for the treatment and prophylaxis of bronchial asthma and for the treatment of reversible airways obstruction associated with bronchitis and emphysema.

It may be used to relieve attacks of acute dyspnoea and may also be taken prophylactically before exertion or to prevent exercise-induced asthma.

It is also suitable for treating bronchospasm in patients with coexisting heart disease or hypertension, including those taking beta blockers, because of its selective action on the bronchial receptors and lack of effects on the cardiovascular system. At therapeutic levels, it has little effect on cardiac receptors.

Dosage and Administration

Brodil[®] Accucap inhaler is administered by the inhaled route only. It is suitable for patients including those who cannot use metered dose inhaler successfully.

Adults

For the relief of acute bronchospasm and for managing intermittent episodes of asthma: one or two (200-400 mcg) Brodil[®] Accucap as a single dose.

For chronic maintenance or prophylactic therapy: one or two (200-400 mcg) Brodil[®] Accucap up to four times daily. For prevention of exercise induced bronchospasm: two (400 mcg) Brodil[®] Accucap before exertion.

Elderly

The dosage is same as that for adults.

Children

For the relief of acute bronchospasm, management of episodic asthma and for prevention of exercise induced bronchospasm: one (200 mcg) Brodil[®] Accucap may be administered as a single dose.

For routine maintenance and prophylaxis: one (200 mcg) Brodil[®] Accucap up to four times daily

Side Effects

Mild tremor and headache have been rarely reported. These usually disappear with continuous treatment. There have been very rare reports of transient muscle cramp. Hypersensitivity reactions including angioedema, urticaria, bronchospasm, hypotension and

collapse have been reported very rarely. As with other inhalation therapy, the potential for paradoxical bronchospasm should be kept in mind. If it occurs, the preparation should be discontinued immediately and alternative therapy should be instituted.

Warnings

The management of asthma should normally be a stepwise programme, and patient response should be monitored clinically and by lung function test. Increasing use of short-acting inhaled β_2 agonists to control symptoms indicates deterioration of asthma control. Under these conditions, the patient's therapy plan should be reassessed. Sudden and progressive deterioration in asthma control is potentially life-threatening and consideration should be given to starting or increasing corticosteroid therapy. In patients considered at risk, daily peak flow monitoring may be instituted.

Precautions

Salbutamol should be administered cautiously to patients suffering from thyrotoxicosis. In the event of previously effective dose of salbutamol inhaler failing to give relief for at least three hours, the patient should be advised to seek medical advice in order that any necessary additional steps may be taken.

Pregnancy and lactation

Salbutamol is known to cross the placental barrier in humans. Safety for use in pregnancy has not been demonstrated, therefore the drug should not be used in pregnant women, or those likely to become pregnant, unless the expected benefit outweighs any potential risk. As salbutamol is probably secreted in breast milk, its use in nursing mothers is not recommended unless the expected benefit to the mother is greater than any possible risk to the infant.

Contraindications

Salbutamol inhaler is contraindicated in patients with a history of hypersensitivity to any of its components. Although intravenous salbutamol, and occasionally salbutamol tablets, is used in the management of premature labour uncomplicated by conditions such as placenta praevia, ante-partum haemorrhage or toxemia of pregnancy, salbutamol inhaler preparations are not appropriate for managing premature labour. Salbutamol preparation should not be used for threatened abortion during the first or second trimesters of pregnancy.

Drug interaction

Salbutamol should be administered with caution to patients being treated with monoamine oxidase inhibitors (MAOIs) or tricyclic antidepressants, since the action of Salbutamol on the vascular system may be potentiated. The effects of Salbutamol are inhibited by β antagonists such as propranolol. Other sympathomimetic bronchodilator should not be used concomitantly with Salbutamol. If additional adrenergic drugs are to be administered by any route, they should be used with caution to avoid deleterious cardiovascular effects. Treatment with diuretics may augment the hypokalemia that occurs with large doses of Salbutamol.

Overdosage

As with all sympathomimetic inhaler medications, cardiac arrest and even death may be associated with abuse. The preferred antidote for overdose with salbutamol inhaler is cardioselective beta-blocker, such as metoprolol tartarate. But beta-blockers should be used with caution in patients with a history of bronchospasm. Dialysis is not appropriate treatment for overdose of Salbutamol inhaler.

Pharmaceutical Precaution

Brodil[®] Acucap must not be swallowed and can be used with any inhaler device. Remove Acucap capsule from the blister pack just prior to use, as Acucap exposed to moisture may not tear easily.

Avoid storage in direct sunlight or heat. Store below 30°C. Keep away from children.

Package quantities

Brodil[®] Accucap Inhaler: Each box contains 30 capsules in alu-alu blister strips. Each Acucap capsule contains 200 mcg of Salbutamol BP (as Sulfate).

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