

# Pulmocare<sup>®</sup>

Salbutamol Sulphate BP

## Presentation

Pulmocare<sup>®</sup> 4 mg tablet: Each tablet contains Salbutamol Sulphate BP equivalent to 4 mg Salbutamol.

## Description

Pulmocare<sup>®</sup> is a synthetic sympathomimetic amine, commercially available as its sulphate salt. It is beta-2 adrenoceptor agonist which stimulates beta-adrenergic receptors. It is believed that beta-adrenergic agonists stimulate the production of cyclic adenosine monophosphate (cAMP) which appears to mediate numerous cellular responses.

Pulmocare<sup>®</sup> appears to act on uterine and vascular smooth muscles (beta-2 receptors) than on beta-adrenergic receptors of the heart (beta-1 receptors). The main effect following oral administration of Salbutamol is bronchodilation resulting from relaxation of smooth muscles of the bronchial tree.

Results of animal studies indicate that Salbutamol does not cross the blood brain- barrier, but the drug apparently crosses the placenta. Salbutamol is extensively metabolized in the liver mainly to Salbutamol 4-o-sulphate which has little or no beta-adrenergic blocking effect. Salbutamol and its metabolites are rapidly excreted in urine and feces.

## Indication

Pulmocare<sup>®</sup> is indicated for the relief of bronchospasm in patients with reversible obstructive airway diseases like Bronchial asthma, chronic bronchitis, Emphysema, etc. Because of the sustained release formulation

## Dosage And Administration

Adults: The recommended usual oral dose is 2-4 mg tablet 3-4 times daily or as prescribed by physicians.

Children (2-6 years of age): 1-2 mg three to four times daily or as prescribed by the physician.

Not recommended under the age of 2 years.

Elderly: Usually dose adjustment is not required in the elderly.

## Contraindication And Precaution

Salbutamol is contraindicated in patients with a history of hypersensitivity to any of their components. Salbutamol should be used with caution in patients with hyperthyroidism, cardiovascular disease, occlusive vascular disorders, hypertension and aneurysms. Hypokalaemia associated with high doses of Salbutamol may result in increased susceptibility to digitalis-induced cardiac arrhythmia.

## Side Effect

The adverse reactions to Salbutamol are similar in nature to reactions to other sympathomimetic agents.

The most frequent adverse reactions to Salbutamol are nervousness, tremor, headache, tachycardia, and palpitation. Less frequent adverse reactions are muscle cramps, insomnia, nausea, weakness, dizziness, drowsiness, flushing, restlessness, irritability, chest discomfort and difficulty in micturition. Hypersensitivity reactions including paradoxical bronchospasm are rare.

## Drug Interaction

The concomitant use of Pulmocare<sup>®</sup> tablets and other oral sympathomimetic agents are not recommended since such combined use may lead to deleterious cardiovascular effects. Salbutamol should be administered with extreme caution to patients being treated with monoamine oxidase inhibitors or tricyclic antidepressants because the action of Salbutamol on the vascular system may be potentiated. Beta-receptor blocking agents and Salbutamol inhibit the effect of each other.

## Use In Pregnancy And Lactation

Administration of drugs during pregnancy should only be considered if expected benefit to the mother is greater than any possible risk to the fetus. As Salbutamol is probably secreted in breast milk, its use in nursing mothers is not recommended unless the expected benefits out-weigh any potential risk.

## Over dosage

The symptoms with over dosage are angina, headache, nausea, vomiting, tremor etc. The preference antidote for over dosage with Salbutamol is cardio-selective beta-blocking agent but beta-blocking drugs should be used with caution in patients with a history of bronchospasm

## Commercial pack

Pulmocare<sup>®</sup> 4 mg tablet: Box containing 10 x 10 tablets in strip pack.

## Storage

Store in a cool and dry place below 30 °C. Protect from light.

Medicine: Keep out of reach of children



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Healthcare Pharmaceuticals Ltd.  
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