

Mucosol®

Syrup/Paediatric Drops

Description

Mucosol contains Ambroxol which is the active metabolite of Bromhexine, and it has been proven that this metabolite possesses a greater bronchosecretolytic effect than Bromhexine. It improves sputum rheology by hydrating mechanisms leading to liquefaction of mucus in the lumen of respiratory tract, thus facilitating expectoration of mucus and reducing dyspnoea. It stimulates production of phospholipid of surfactant by alveolar cells, thus contributing to the lowering of superficial tension in the alveoli. It also reduces bronchial type reactivity. Ambroxol has anti-inflammatory properties owing to the inhibitory effect on the production of cellular cytokines and Arachidonic acid metabolites. In patients with COPD it traditionally improves airway patency. After oral administration Ambroxol is absorbed rapidly, and it undergoes first pass metabolism through the liver (bioavailability 70%). Half life is approximately 9-10 hours and Ambroxol is excreted in the urine in the form of different inactive metabolites.

Indications

Productive cough, acute and chronic inflammatory disorders of respiratory tracts concomitant with formation of viscous and hardly separated expectoration, acute and chronic inflammatory disease of rhinopharyngeal tract (laryngitis, pharyngitis, sinusitis and rhinitis) associated with viscid mucus. Asthmatic bronchitis, bronchial asthma with thick, hard expectoration, bronchiectasis and chronic pneumonia.

Dosage and Administration

(Preferably after meal) :

Syrup :

- 2-5 years : 2.5 ml ($\frac{1}{2}$ teaspoonful), 2-3 times a day
- 5-10 years : 5 ml (1 teaspoonful), 2-3 times a day
- 10 years and adults : 10 ml (2 teaspoonful), 3 times a day

Paediatric drops :

- 0-6 months : 0.5 ml, 2 times a day
- 6-12 months : 1 ml, 2 times a day
- 1-2 years : 1.25 ml, 2 times a day

Specific application features : Ambroxol may be prescribed to patients suffering from diabetes mellitus.

Contraindications

First trimester of pregnancy, gastroduodenal ulcer, hypersensitivity to any component of the preparation.

Drug Interactions

Ambroxol should not be taken simultaneously with antitussives(e.g., Codeine) because phlegm, which has been liquefied by Ambroxol might not be expectorated.

Side Effects

Ambroxol is well tolerable, however, rarely allergic responses such as skin eruption, urticaria or angio-neurotic oedema may occur. When used for a long time, epigastric pain, stomach overfill feeling cannot be excluded.

Use in Special Populations

Pregnancy : Foetal toxicity and teratogenic study has shown no harmful effect. However it is advised not to use it in pregnancy, especially during the first trimester.

Lactation : Safety during lactation has not been established yet.

Commercial Packs

Mucosol® Syrup : Bottle containing 100 ml syrup, each 5 ml contains 15 mg of Ambroxol Hydrochloride BP.

Mucosol® Paediatric Drops : Bottle containing 15 ml drops, each ml contains 6 mg of Ambroxol Hydrochloride BP.