

coscof[®] (Original)

**24600**

Ref. No: B2124600/22.05

Chlorphenamine Maleate / Guaifenesin / Pseudoephedrine Hydrochloride /
Ammonium Chloride / Sodium Citrate

Expectorant

Honey Base

PRESENTATION:

coscof[®] expectorant: Caramel black coloured viscous liquid with a characteristic odour. Each 5mL contains:

Chlorphenamine Maleate	2mg
Guaifenesin	80mg
Pseudoephedrine Hydrochloride	30mg
Ammonium Chloride	100mg
Sodium Citrate	44mg

CLINICAL PHARMACOLOGY:

Chlorphenamine Maleate is a histamine H₁-receptor antagonist. It is a common ingredient of cough and cold preparations because of its antihistamine effects.

Guaifenesin is reported to increase the volume and reduce the viscosity of tenacious sputum and is used as an expectorant.

Pseudoephedrine Hydrochloride is a direct and indirect-acting sympathomimetic. It is a stereoisomer of ephedrine and has similar action, but has been stated to have less pressor activity and fewer CNS effects. Pseudoephedrine and its salts are given by mouth for the symptomatic relief of nasal congestion. They are commonly combined with other ingredients in preparations intended for the relief of cough and cold symptoms. Its main clinical use is a nasal decongestant and may be used alone in combination with other agents for the relief of cold symptoms.

Ammonium Chloride is used as an expectorant.

Sodium Citrate has humectant properties and plays a role in the maintenance of pH.

Pharmacokinetics:

Chlorphenamine Maleate is absorbed relatively slowly from the gastro-intestinal tract, peak plasma concentrations occurring about 2.5 to 6 hours after oral administration. Bioavailability is low, values of 25 to 50% having been reported. Chlorphenamine appears to undergo considerable first-pass metabolism. About 70% of Chlorphenamine in the circulation is bound to plasma proteins. There is wide inter-individual variation in the pharmacokinetics of Chlorphenamine; values ranging from 2 to 43 hours have been reported for the half-life. Chlorphenamine is widely distributed in the body and enters the CNS. Chlorphenamine Maleate is extensively metabolised. Unchanged drug and metabolites are excreted primarily in the urine. Only trace amounts have been found in the faeces.

Guaifenesin is absorbed from the gastro-intestinal tract. It is metabolised and excreted in the urine.

Pseudoephedrine is readily absorbed from the gastro-intestinal tract. It is largely excreted unchanged in the urine together with small amounts of its hepatic metabolite. It has a half-life of about 5 to 8 hours; elimination is enhanced and half-life accordingly shorter in acid urine. Small amounts are distributed into breast milk.

Ammonium Chloride is absorbed from the gastro-intestinal tract. The ammonium ion is converted into urea in the liver; the anion thus liberated into the blood stream and extracellular fluid causes a metabolic acidosis and decreases the pH of the urine; this is followed by transient diuresis.

Sodium Citrate is metabolised, after absorption, to bicarbonate.

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USES:

coscof[®] expectorant is used to treat the symptoms arising from cough and colds i.e. relief of irritation, reduce viscosity of sputum, decongest the airways and give a soothing effect. It has enhanced expectorant action. coscof[®] expectorant is useful in productive coughs.

DOSAGE AND ADMINISTRATION:

Adults and children over 12 years: Two 5mL spoonfuls (10mL) three to four times daily.

Children 6 to 12 years: One 5mL spoonful three times daily.

Children 2 to 6 years: Half 5mL spoonful (2.5mL) three times daily.

CONTRA-INDICATIONS AND WARNINGS:

Precautions:

The drug should be avoided in patients who are known to be allergic to any one of the components of the mixture. The preparation may cause drowsiness or in some cases excitability.

It should not be given to patients who have high blood pressure, organic heart disease, thyroid disease, diabetes mellitus, glaucoma and those who are on prescription drugs for depression.

Overdosage:

Acute overdose does not result in any serious signs and symptoms unless massive amounts have been ingested. In such a situation the signs and symptoms include nausea, vomiting, visual disturbances, CNS disturbances, dizziness, tachycardia, mild hypertension, urinary retention. Symptoms appear within 4-8 hours and are usually transient, and are treated with supportive therapy, maintenance of airway, oxygenation, hydration and circulatory management.

Pregnancy and Lactation:

The safety data in pregnancy and lactation has not been fully established. However the product should only be used in pregnancy when considered essential by the doctor.

PHARMACEUTICAL PRECAUTIONS:

Store in a dry place below 25°C. Protect from light. Keep all medicines out of the reach of children.

LEGAL CATEGORY:

Pharmacy (P)

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