



THEOZIN®
(THEOPHYLLINE-G)

Indications:

This drug is used to treat or prevent the symptoms of asthma or to treat chronic bronchitis and emphysema. This medicine relieves cough, wheezing, shortness of breath, and troubled breathing.

Pharmacological Category:

Combination of a xanthine derivative and an expectorant

Pregnancy:

Pregnancy Category: C
Animal studies have shown an adverse effect and there are no adequate studies in pregnant women.

Lactation:

Guaifenesin

There are no adequate studies in women for determining infant risk when using this medication during breastfeeding. Weigh the potential benefits against the potential risks before taking this medication while breastfeeding.

Theophylline

Studies in women suggest that this medication poses minimal risk to the infant when used during breastfeeding.

Side effects:

Common adverse effects are as follows:
Hives, difficulty breathing, swelling of your face, lips, tongue, or throat, seizure (convulsions), fast or uneven heart rate, severe nausea or vomiting

Contraindications:

- Allergy to any ingredient in guaifenesin/theophylline (including ethylenediamine), similar medicines (eg, aminophylline), or xanthines (eg, caffeine, chocolate)

- Concurrent use of large amounts of other products that contain xanthine (such as chocolate or caffeinated drinks)

- Untreated ulcers or a seizure disorder

- Concurrent use with dipyridamole intravenously (IV), halothane, or St. John's wort

Interactions:

birth control pills, ketoconazole, ciprofloxacin, clarithromycin, erythromycin, levofloxacin, rifampin, levothyroxine, interferon products, calcium channel blockers, beta blockers, salbutamol, salmeterol, phenytoin, phenobarbital
Administration:

This medicine works best when taken with a glass of water on an empty stomach (either 30 minutes to 1 hour before meals or 2 hours after meals) since that way it will get into the blood sooner. However, in some cases your doctor may want you to take this medicine with meals or right after meals to lessen stomach upset.

Use of alcohol may increase the risk of side effects of guaifenesin/theophylline.

Avoid eating grilled or char-broiled foods. These foods may affect how theophylline works.

This medication can cause side effects that may impair your thinking or reactions. Be careful if you drive or do anything that requires you to be awake and alert.

If you miss a dose of this medicine, take it as soon as possible. However, if it is almost time for your next dose, skip the missed dose and go back to your regular dosing schedule. Do not double doses.

Dose:

Note: Optimum therapeutic serum concentrations of theophylline are traditionally considered to range from 10 to 20 micrograms/mL (55 to 110 micromoles/liter) and toxic effects are more common above 20 micrograms/mL. A range of 5 to 15 micrograms/mL may be effective, and associated with fewer adverse effects. For long-term use, once a maintenance dose has been established, monitoring of serum-theophylline concentrations at 6- to 12-monthly intervals has been

recommended.

Adult:

In adults not currently taking theophylline or xanthine-containing products a suggested loading dose is 5 mg/kg, to produce an average peak serum concentration of 10 micrograms/mL. Doses should again be reduced in the elderly and those with cor pulmonale, heart failure, or liver disease; smokers may require a higher maintenance dose. In the long-term management of chronic bronchospasm, theophylline may be given orally in doses ranging from 300 to 1000 mg daily in divided doses (generally given every 6 to 8 hours).

Pediatric:

Premature infants should be given initial doses of 1 mg/kg every 12 hours if less than 24 days postnatal age, or 1.5 mg/kg every 12 hours if more than 24 days; in full-term infants up to 1 year of age initial daily dosage (to be given in 3 or 4 divided doses) could be calculated on the basis of the equation: Daily dose (mg/kg) = (0.2 × age in weeks) + 5.0

Subsequent dosage should be adjusted based on steady-state serum-theophylline concentrations, which might take as long as 5 days to be achieved in premature neonates if a loading dose is not used.

Dosage Form:

Oral Solution

Each 5 ml contains 50 mg theophylline anhydrous+ 30 mg guaifenesin.

Packaging: 120 ml bottle

References:

- 1) British National Formulary 68, September 2014- March 2015, page 192
- 2) Lexicomp, s Drug Reference Handbooks, American Pharmacists Association, 20th edition, page 1702
- 3) http://www.emedicinehealth.com/drug-guaifenesin_and_theophylline/article_em.htm#sideeffects
- 4) <https://www.drugs.com/cdi/guaifenesin-theophylline.html>
- 5) <https://www.ncbi.nlm.nih.gov/pubmedhealth/PMHT0012386/?report=details>
- 6) www.drugfuture.com/mt/theophylline-hydrate.pdf
- 7) <http://reference.medscape.com/drug/mucinex-organidin-nr-guaifenesin-343403#10>
- 8) <http://reference.medscape.com/drug/theo-24-theochron-theophylline-343447>