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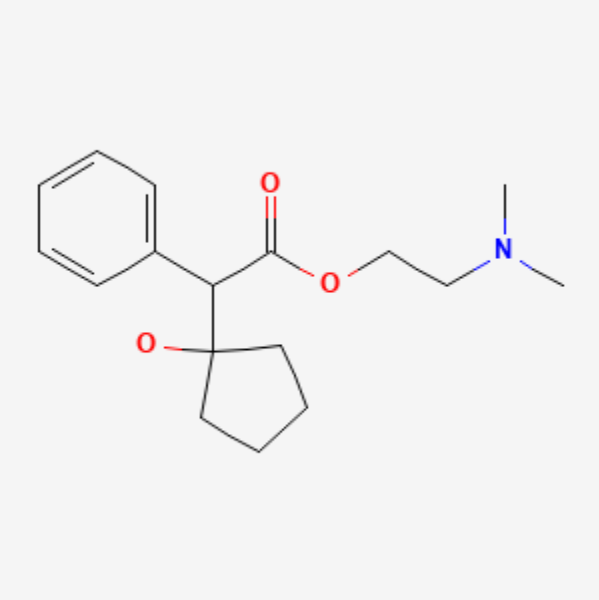
Cyclopentolate

Revised: April 19, 2021.

CASRN: 512-15-2



Drug Levels and Effects

Summary of Use during Lactation

No information is available on the use of cyclopentolate during breastfeeding. Anticholinergic drugs might interfere with breastfeeding. A single dose of ophthalmic cyclopentolate is not likely to interfere with breastfeeding; however, during long-term use, observe the infant for signs of decreased lactation (e.g., insatiety, poor weight gain). To substantially diminish the amount of drug that reaches the breastmilk after using eye drops, place pressure over the tear duct by the corner of the eye for 1 minute or more, then remove the excess solution with an absorbent tissue.

Drug Levels

Maternal Levels. Relevant published information was not found as of the revision date.

Infant Levels. Relevant published information was not found as of the revision date.

Effects in Breastfed Infants

Relevant published information was not found as of the revision date.

Effects on Lactation and Breastmilk

Anticholinergics can inhibit lactation in animals, apparently by inhibiting growth hormone and oxytocin secretion.[1-5] Anticholinergic drugs can also reduce serum prolactin in nonnursing women.[6] The prolactin level in a mother with established lactation may not affect her ability to breastfeed.

References

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4. Bizzarro A, Iannucci F, Tolino A, et al. Inhibiting effect of atropine on prolactin blood levels after stimulation with TRH. Clin Exp Obstet Gynecol. 1980;7:108–11. PubMed PMID: 6788407.
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6. Masala A, Alagna S, Devilla L, et al. Muscarinic receptor blockade by pirenzepine: Effect on prolactin secretion in man. J Endocrinol Invest. 1982;5:53–5. PubMed PMID: 6808052.

Substance Identification

Substance Name

Cyclopentolate

CAS Registry Number

512-15-2

Drug Class

Breast Feeding

Lactation

Mydriatics

Muscarinic Antagonists

Parasympatholytics