



## Tolterodine

Revised: April 19, 2021.

CASRN: 1234937-51-5

## Drug Levels and Effects

### Summary of Use during Lactation

No information is available on the use of tolterodine during breastfeeding. Long-term use of tolterodine might reduce milk production or milk letdown. During long-term use, observe for signs of decreased lactation (e.g., insatiety, poor weight gain).

### 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

1. Aaron DK, Ely DG, Dewese WP, et al. Reducing milk production in ewes at weaning using restricted feeding and methscopolamine bromide. *J Anim Sci.* 1997;75:1434–42. PubMed PMID: 9250502.
2. Powell MR, Keisler DH. A potential strategy for decreasing milk production in the ewe at weaning using a growth hormone release blocker. *J Anim Sci.* 1995;73:1901–5. PubMed PMID: 7592071.
3. Daniel JA, Thomas MG, Powell MR, et al. Methscopolamine bromide blocks hypothalamic-stimulated release of growth hormone in ewes. *J Anim Sci.* 1997;75:1359–62. PubMed PMID: 9159285.

**Disclaimer:** Information presented in this database is not meant as a substitute for professional judgment. You should consult your healthcare provider for breastfeeding advice related to your particular situation. The U.S. government does not warrant or assume any liability or responsibility for the accuracy or completeness of the information on this Site.

**Attribution Statement:** LactMed is a registered trademark of the U.S. Department of Health and Human Services.

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.
5. Svennersten K, Nelson L, Juvnäs-Moberg K. Atropinization decreases oxytocin secretion in dairy cows. *Acta Physiol Scand*. 1992;145:193–4. PubMed PMID: 1636447.
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

Tolterodine

### CAS Registry Number

1234937-51-5

### Drug Class

Breast Feeding

Lactation

Muscarinic Antagonists

Parasympatholytics