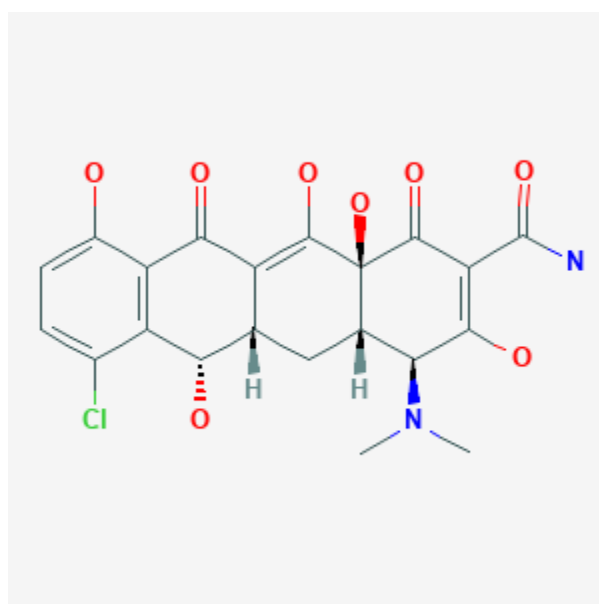




Demeclocycline

Revised: October 31, 2018.

CASRN: 127-33-3



Drug Levels and Effects

Summary of Use during Lactation

A number of reviews have stated that tetracyclines are contraindicated during breastfeeding because of possible staining of infants' dental enamel or bone deposition of tetracyclines. However, a close examination of available literature indicates that there is not likely to be harm in short-term use of demeclocycline during lactation because milk levels are low and absorption by the infant is inhibited by the calcium in breastmilk. Short-term use of demeclocycline is acceptable in nursing mothers. As a theoretical precaution, avoid prolonged or repeat courses during nursing. Monitor the infant for rash and for possible effects on the gastrointestinal flora, such as diarrhea or candidiasis (thrush, diaper rash).

Drug Levels

Maternal Levels. In 9 women, colostrum levels of demeclocycline ranged from 50 mcg/L to 1 mg/L during a dosage regimen of oral demeclocycline 600 mg daily for 1 to 5 days. Low levels of the drug were detectable in milk for up to 6 days after discontinuation of the drug.[1]

Thirty-six women were studied after receiving oral demeclocycline 300 mg daily for 1 to 9 days after delivery. Demeclocycline was undetectable in milk after a single dose of 300 mg. After repeated doses, milk levels ranged from undetectable to 1.4 mg/L at various times after the dose.[1]

Using the data above, it is estimated that a breastfed infant would receive a maximum of 200 to 300 mcg daily.[1]
[2]

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

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

Alternate Drugs to Consider

[Doxycycline](#), [Tetracycline](#)

References

1. von Kobyletzki D, Strauch D. Zur frage der diaplazentaren passage und ausscheidung mit der muttermilch von demethylchlortetracyclin. Z Geburtshilfe Gynakol. 1964;161:292-305. PubMed PMID: 14042216.
2. von Kobyletzki D. [Personal studies on pharmacokinetics during the peripartal and nursing period]. Med Welt. 1968;38:2010-9. PubMed PMID: 5712895.

Substance Identification

Substance Name

Demeclocycline

CAS Registry Number

127-33-3

Drug Class

Breast Feeding

Lactation

Anti-Infective Agents

Antibacterial Agents

Tetracyclines