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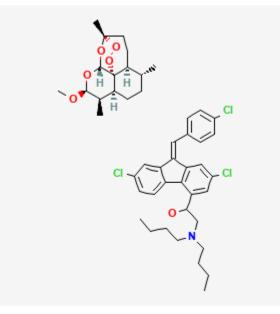
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Revised: April 19, 2021.

Artemether and Lumefantrine

CASRN: 141204-94-6



# **Drug Levels and Effects**

### **Summary of Use during Lactation**

Artemether and lumefantrine have not been studied in nursing mothers. Estimates of its excretion into breastmilk indicate that amounts in milk are very low. The Centers for Disease Control and Prevention consider the drug combination acceptable for use in mothers nursing an infant weighing at least 5 kg (11 pounds) and it can be given directly to infants weighing 5 kg or more.[1] The safety of the combination in breastfed infants under 5 kg is not known. Tablets can be crushed and administered in breastmilk to enhance absorption in small infants.[2]

**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.

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## **Drug Levels**

*Maternal Levels.* The excretion of artemether and lumefantrine in breastmilk was estimated from average maximum serum concentrations after a standard 6-dose regimen of artemether 40 mg and lumefantrine 240 mg daily, assuming a M/P ratio of 1.04 for artemether and 1.3 for lumefantrine. The authors estimated that a fully breastfed infant would receive 0.03 mg daily of artemether or less than 0.4% of the recommended dose for a 5 kg infant, and 5 mg daily of lumefantrine or less than 10% of the recommended dose for a 5 kg infant.[3]

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**

Atovaquone and Proguanil, Chloroquine, Mefloquine,

### References

- 1. Centers for Disease Control and Prevention. CDC Yellow Book 2020: Health Information for International Travel. New York: Oxford University Press 2019. Available at: https://wwwnc.cdc.gov/travel/yellowbook/2020/travel-related-infectious-diseases/malaria
- 2. Adjei GO, Goka BQ, Binka F, et al. Artemether-lumefantrine: an oral antimalarial for uncomplicated malaria in children. Expert Rev Anti Infect Ther. 2009;7:669–81. PubMed PMID: 19681693.
- 3. Jain JP, Ganesan S, Lefevre G, et al. Estimating of the amount of artemether and lumefantrine excreted through breast milk. Trop Med Int Health 2015;20 (Suppl. S1):184-5. Abstract. doi:10.1111/tmi.12574

# **Substance Identification**

#### **Substance Name**

Artemether and Lumefantrine

#### **CAS Registry Number**

141204-94-6

### **Drug Class**

Breast Feeding Lactation Anti-Infective Agents Antiparasitic Agents

Antimalarials

Antiprotozoal Agents