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# **Dopamine**

Revised: December 3, 2018.

CASRN: 51-61-6

# **Drug Levels and Effects**

## **Summary of Use during Lactation**

No information is available on the use of dopamine during breastfeeding. Because of its poor oral bioavailability and short half-life, any dopamine in milk is unlikely to affect the infant. Intravenous dopamine infusion may decrease milk production. Dopamine is known to reduce serum prolactin in nonnursing women, but no information is available on its effect on milk production in nursing mothers.

### **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.

**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 .

### **Effects in Breastfed Infants**

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

### **Effects on Lactation and Breastmilk**

Intravenous dopamine infusion in doses of 2 to 5 mcg/kg/minute given to nonnursing subjects and in women with hyperprolactinemia decreases serum prolactin concentrations.[1][2][3][4][5] However, relevant published information on the effect of intravenous dopamine on milk production in nursing mothers was not found as of the revision date. The prolactin level in a mother with established lactation may not affect her ability to breastfeed.

#### References

- 1. Judd SJ, Rigg LA, Yen SS. The effects of ovariectomy and estrogen treatment on the dopamine inhibition of gonadotropin and prolactin release. J Clin Endocrinol Metab. 1979;49:182-4. PubMed PMID: 572372.
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- 4. Leblanc H, Lachelin GC, Abu-Fadil S, Yen SS. Effects of dopamine infusion on pituitary hormone secretion in humans. J Clin Endocrinol Metab. 1976;43:668-74. PubMed PMID: 956350.
- 5. Crosignani PG, Reschini E, Peracchi M et al. Failure of dopamine infusion to suppress the plasma prolactin response to sulpiride in normal and hyperprolactinemic subjects. J Clin Endocrinol Metab. 1977;45:841-4. PubMed PMID: 410826.

### **Substance Identification**

### **Substance Name**

Dopamine

## **CAS Registry Number**

51-61-6

# **Drug Class**

**Breast Feeding** 

Lactation

Cardiotonic Agents

Catecholamines

Dopamine Agents

**Sympathomimetics**