



## Anthrax Vaccine

Revised: October 31, 2018.

## Drug Levels and Effects

### Summary of Use during Lactation

The Centers for Disease Control and Prevention and several health professional organizations state that vaccines given to a nursing mother do not affect the safety of breastfeeding for mothers or infants and that breastfeeding is not a contraindication to the anthrax vaccine. Breastfed infants should be vaccinated according to the routine recommended schedules.[1][2][3][4]

### 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

Limited data indicate that breastfeeding can enhance the response of the infant to certain vaccine antigens.[1][4][5]

### Effects on Lactation and Breastmilk

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

### References

1. General recommendations on immunization --- recommendations of the Advisory Committee on Immunization Practices (ACIP). MMWR Recomm Rep. 2011;60 (RR-2):1-64. PubMed PMID: 21293327.
2. Gruslin A, Steben M, Halperin S et al. Immunization in pregnancy: No. 220, December 2008. Int J Gynaecol Obstet. 2009;105:187-91. PubMed PMID: 19367691.
3. Morse D and the ACIP Anthrax Vaccine Working Group. Use of anthrax vaccine in the United States. Recommendations of the Advisory Committee on Immunization Practices (ACIP), 2009. MMWR Recomm Rep. 2010;59 (RR-6):1-30. PubMed PMID: 20651644.
4. American Academy of Pediatrics Committee on Infectious Diseases, Kimberlin DW, Brady MT et al. Red Book: 2015 Report of the Committee on Infectious Diseases. 30th ed. Elk Grove Village, IL: American Academy of Pediatrics. 2015.

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5. Pabst HF. Immunomodulation by breast-feeding. *Pediatr Infect Dis J*. 1997;16:991-5. PubMed PMID: 9380478.

## Substance Identification

### Substance Name

Anthrax Vaccine

### Drug Class

Breast Feeding

Lactation

Vaccines