

# BREASTFEEDING RESOURCE CENTER

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## **Breastfeeding Administration After Contrast**

***American College of Radiology (ACR) guidelines state that IV iodinated contrast and gadolinium are safe to use in breastfeeding mothers.***

***Mothers who are breastfeeding should be given the opportunity to make an informed decision as to whether to continue or temporarily abstain from breastfeeding after receiving IV contrast***

# Contrast Agents to Avoid

- *Teslascan (mangafodipir) is a manganese-containing radiocontrast agent used for hepatic and pancreatic MRI studies.*
- *The release of manganese is significant, and whole-body stores are approximately doubled with an infusion of this product.*
- *Manganese is effectively transported into human milk, consequently, milk levels of it can be temporarily elevated.*
- **Recommendation:** *Breast-feeding should be discontinued for 4 or more hours after administration.*



## Safe Contrast Agents

### ***Iodinated and gadolinium-based agents:***

- *Gadolinium used as a contrast medium in MRI scans is excreted in breast milk in very small amounts, less 0.04%. Of the amount excreted into breast milk, only 0.8% can be absorbed by the baby.*
- *Iodine used as a contrast medium in CT scans does not enter breast milk in any noticeable amount. The expected systemic dose absorbed by the infant from the breast milk is less than 0.01%.*
- **Recommendation:** *Reassure your patients that the theoretical risk of breastfeeding after receiving an iodinated or gadolinium-based contrast does not outweigh the benefits of continuing to breastfeed.*

## References

1. *American College of Radiology, Committee on Drugs and Contrast Media. Administration of Contrast Media to Breastfeeding Mothers, ACR Manual on Contrast Media, Version 8, 2013*
2. *Pharmaceutical manufacturer prescribing information, 2003.*
3. *Vuori E, Makinen SM, Kara R, Kuitunen P. The effects of the dietary intakes of copper, iron, manganese, and zinc on the trace element content of human milk. Am J Clin Nutr 1980; 33(2):227-231.*