



## Technetium Tc 99m Disofenin

Revised: June 30, 2019.

### Drug Levels and Effects

#### Summary of Use during Lactation

Information in this record refers to the use of technetium Tc 99m disofenin (Tc 99m DISIDA) as a diagnostic agent. The United States Nuclear Regulatory Commission states that breastfeeding need not be interrupted after administration of Tc 99m disofenin in doses up to 1000 MBq (30 mCi) to a nursing mother.[1] The International Commission on Radiological Protection also recommends that breastfeeding need not be interrupted after administration technetium Tc 99m disofenin.[2] However, to follow the principle of keeping exposure "as low as reasonably achievable", some experts recommend nursing the infant just before administration of the radiopharmaceutical and interrupting breastfeeding for 3 to 6 hours after the dose, then expressing the milk completely once and discarding it. If the mother has expressed and saved milk prior to the examination, she can feed it to the infant during the period of nursing interruption.[3][4][5][6] Mothers need not refrain from close contact with their infants after usual clinical doses.[7]

Mothers concerned about the level of radioactivity in their milk could ask to have it tested at a nuclear medicine facility at their hospital. When the radioactivity is at a safe level she may resume breastfeeding. A method for measuring milk radioactivity and determining the time when a mother can safely resume breastfeeding has been published.[8]

For nursing mothers who work with Tc 99m substances in their workplace, there is no need to take any precautions other than those appropriate for general radiation protection.[9]

#### Drug Levels

Tc 99m is a gamma emitter with a principal photon energy of 140.5 keV and a physical half-life of 6.024 hours. [1] The effective half-life of Tc 99m DISIDA ranges from 3.6 to 3.8 hours.[8]

#### 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.

## References

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## Substance Identification

### Substance Name

Technetium Tc 99m Disofenin

### Drug Class

Breast Feeding

Lactation

Radiopharmaceuticals

Technetium Compounds

Diagnostic Agents



