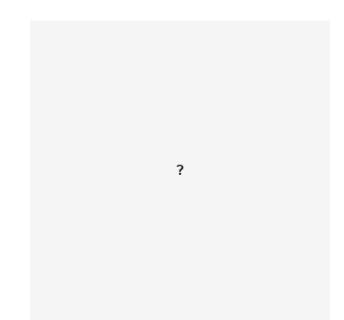


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Technetium Tc 99m Ethylenedicysteine Revised: June 30, 2019.

CASRN: 134009-45-3



# **Drug Levels and Effects**

## Summary of Use during Lactation

Information in this record refers to the use of technetium Tc 99m ethylenedicysteine (Tc 99m L,L ethylenedicysteine; Tc 99m LL-EC) as a diagnostic agent. No recommendations have been published on the need to suspend breastfeeding after administration of Tc 99m LL-EC; however, it is similar to other Tc 99m products, so no suspension of breastfeeding appears to be required. 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.[1][2][3] Mothers need not refrain from close contact with their infants after usual clinical doses.[4]

**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 .

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.[5]

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.[6]

#### **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. [7] The effective half-life of Tc 99m LL-EC rages from 30 to 143 minutes, depending on kidney function.[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.

#### **Alternate Drugs to Consider**

Technetium Tc 99m Medronate, Technetium Tc 99m Mertiatide, Technetium Tc 99m Pentetate

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# **Substance Identification**

#### **Substance Name**

Technetium Tc 99m Ethylenedicysteine

#### **CAS Registry Number**

134009-45-3

#### **Drug Class**

Breast Feeding Lactation Radiopharmaceuticals Technetium Compounds

Diagnostic Agents