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Krypton Kr 81m

Revised: June 30, 2019.

CASRN: 15678-91-8

Drug Levels and Effects

Summary of Use during Lactation

Information in this record refers to the use of krypton Kr 81m as a diagnostic agent. The International Commission on Radiological Protection and other experts state that breastfeeding need not be interrupted after administration of krypton Kr 81m gas.[1][2]

Drug Levels

Krypton 81m is an inert gas that is a gamma emitter with a principal photon energy of 0.19 MeV. Because of its rapid decay, the effective half-time of lung elimination is equal to the physical half-life of 13.1 seconds. Peripheral krypton 81m radioactivity is exhaled after the first passage through the lungs

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

1. Parker JA, Coleman RE, Grady E et al. SNM practice guideline for lung scintigraphy 4.0. J Nucl Med Technol. 2012;40:57-65. PubMed PMID: 22282651.
2. Mattsson S, Johansson L, Leide Svegborn S et al. Radiation dose to patients from radiopharmaceuticals: A compendium of current information related to frequently used substances. Annex D. Recommendations on breast-feeding interruptions. Ann ICRP. 2015;44 (2 Suppl):319-21. PubMed PMID: 26069086.

Substance Identification

Substance Name

Krypton Kr 81m

CAS Registry Number

15678-91-8

Drug Class

Breast Feeding

Lactation

Radiopharmaceuticals

Krypton Radioisotopes

Diagnostic Agents