

COMPARATIVE STUDY OF INTERNAL DOSE CALCULATION: MONTE CARLO VERSUS MIRD METHOD

The Monte Carlo method and the method proposed by the Medical Internal Radiation Dose (MIRD) committee are among the most widely used methods for estimating absorbed dose in nuclear medicine. In fact, The MIRD committee is a committee of the Society of Nuclear Medicine, set up in 1965 to develop methods, models, assumptions and a standard mathematical scheme for assessing the internal radiation doses of administered radiopharmaceuticals.

The Monte Carlo method is very useful as it takes into account the complexity of to take into geometric models and the different radionuclide emissions.

In what follows, we compare the two, focusing on the calculation of absorbed doses to target organs.

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