

Joint Symposium 4

Radiation Protection Committee / European Radiation Dosimetry Group (EURADOS)

Thursday, October 22, 16:35-18:05

Session Title

Hot Topics in Radiation Protection

Chairperson

Søren Holm (Copenhagen, Denmark)

Programme

- 16:35 - 16:55 Nicolas Varmentot (Nantes, France): LNT Model - Understanding, Applications and Limitations
- 16:55 - 17:19 Sigrid Leide-Svegborn (Malmö, Sweden): Breastfeeding - The Confusing Status of Rules and Guidelines - The Need for Harmonization
- 17:19 - 17:43 Lara Struelens (Mol, Belgium / EURADOS): External Dose Rates from Nuclear Medicine Patients to Specific Patient-Carers Geometries - A Computational Approach
- 17:43 - 18:03 Weibo Li (Neuherberg, Germany / EURADOS): Selecting Biokinetic Models for TAC Calculations and Issues with MIRD Compartmental Model of ^{18}F -FDG

Educational Objectives

1. Understand the basics of the LNT model and the implications of its application
2. Understand the major issues regarding breastfeeding and why harmonization is needed
3. Understand the biokinetics, computational models and external dose rates to estimate radiation exposure of comforters and medical staff

Summary

This session intends to provide an overview of the current status of some of the most controversial topics in radiation protection, such as the LNT model and its impact on legislation and on the daily practice, the issues regarding breastfeeding and the confusing status of rules, the computational approaches for dose rate estimation from Nuclear Medicine patients and the biokinetic models for time activity curve (TAC) calculations.

Key Words

Radiation protection, LNT, breastfeeding, external dose rates, biokinetic models