

Barcelona, Spain

Pitfalls & Artefacts 2 - Interactive

Dosimetry Committee

Sunday, October 13, 11:30-13:00

Session Title

From Imaging to Dosimetry - Step-by-Step Patient Dosimetry

Chairpersons

Pablo Minguez Gabiña (Barakaldo, Spain)

Nicolas Chouin (Nantes, France)

Programme

- 11:30 - 11:50 Carlo Chiesa (Milan, Italy): Dosimetry for Radioembolisation with 90Y Microspheres
- 11:50 - 12:15 Guido Böning & Harun Ilhan (Munich, Germany): Dosimetry for 177Lu-PSMA Therapy
- 12:15 - 12:35 Cecilia Hindorf (Lund, Sweden): Dosimetry for Alpha-Particle Emitters
- 12:35 - 12:55 Jonathan Gear (London, United Kingdom): Step by Step Estimation of Uncertainty on Absorbed Dose

Educational Objectives

1. Identify the different steps associated to the calculation of absorbed dose for radioembolisation treatments with 90Y microspheres. Identify the pitfalls associated to each step.
2. Identify the different steps associated to the calculation of absorbed dose for 177Lu-PSMA therapy. Identify the pitfalls associated to each step.
3. Identify the different steps associated to the calculation of absorbed dose for targeted alpha therapy. Identify the pitfalls associated to each step.
4. Get a general overview of a complex uncertainty calculation in the context of clinical dosimetry. Identify the steps with the highest uncertainty in the dosimetry process.

Summary

1. A step by step overview of the clinical dosimetry process for radioembolisation with 90Y microspheres.
2. A step by step overview of the clinical dosimetry process for 177Lu-PSMA therapy
3. A step by step overview of the clinical dosimetry process for targeted alpha therapy
4. A general overview of uncertainty associated to each step of the dosimetry process

Key Words

Quantitative imaging, Absorbed dose