



CME Session 14

Physics Committee & Dosimetry Committee
Wednesday, October 21, 09:45–11:15

Session Title

Quantitative Imaging & Dosimetry Using Total-Body PET Imaging

Chairpersons

Sibylle Ziegler (Hannover, Germany)

Floris van Velden (Leiden, Netherlands)

Programme

09:45–10:15 **Oleksandra Ivashchenko** (Groningen, Netherlands): Challenges for Quantitative Imaging in TB-PET

10:15–10:35 **Sibylle Ziegler** (Hannover, Germany): Parametric Imaging with TB-PET

10:35–10:55 **Luca Filippi** (Rome, Italy): Theranostics with TB-PET

10:55–11:15 **Axel Rominger** (Bern, Switzerland): TB-PET: A New Era for Lu-177 Radioligand Therapy

Educational Objectives

1. Evaluate the potential of total-body PET for dosimetry and its implications for personalised medicine.
2. Describe the key technical and methodological challenges associated with quantitative imaging using total-body PET.
3. Explain the clinical applications and advantages of parametric imaging in total-body PET.

Summary

This CME session explores the technical and methodological challenges of achieving accurate quantitative imaging with total-body PET. The audience will gain insight into the clinical value of parametric imaging and how it can enhance diagnostic and therapeutic decision-making. The session also examines the potential of total-body PET for dosimetry applications, highlighting its role in theranostics and in advancing personalised medicine across current and future clinical and research developments.

Key Words

Total-Body PET; Quantitative Imaging; Parametric Imaging; Dosimetry; Personalised Medicine; Theranostics