



CTE Session 1

Technologists Committee / with SNMMI-TC

Sunday, October 20th, 08:00 - 09:30

Session Title

PET Tracers Beyond 18F-FDG - Tech Guide Preview

Chairpersons

Luísa Roldão Pereira (Maidstone, UK)

Julie Bolin (Arizona, USA)

Programme

08:00 - 08:10 **Agata Pietrzak** (Poznan, Poland): Tech Guide – Introduction & Preview

08:10 - 08:35 **Tina M. Buehner** (Arizona, USA): Exploring 18F-Fluoroestradiol (breast & endometrial cancer applications)

08:35 - 09:00 **Valentina Mautone** (Meldola, Italy): Delving into 11C-acetate

09:00 - 09:30 **Kim Pabst** (Essen, Germany): Core concepts of FAPI

Educational Objectives

1. Get acquainted with the methodology and content of the Technologists' Guide 2024 edition.
2. Raise awareness of recent developments in the radiopharmaceutical field, which may vary between geographical locations.
3. Provide a theoretical and/or practical overview of a range of radiopharmaceuticals and their journey, from production to clinical use, covering the following components:
 - Chemistry & properties
 - Labelling / Production
 - Quality Control
 - Physiological Biodistribution
 - Clinical applications: Patient preparation & after care
 - Imaging protocol
 - Results & Interpretation (typical abnormal findings/ uptake and examples)
 - Dosimetry & Theranostics potential (if applicable)

Summary

Every year, the EANM's Technologists Committee releases a brand-new edition of a Technologists' Guide. Exploring through either, or a mix, of a literature review and empirical knowledge sources, these sessions will reflect the diversity and ingenuity of a selection of radiopharmaceuticals that are emerging in the research or clinical settings across the world. Following a structured outline, the radiopharmaceutical lifecycle and its clinical relevance will be described, making it interesting from the viewpoint of the technologist, chemist, nurse, physicist, and physician.



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Through their presentations, the authors of three of the Guide chapters will provide a first-hand account of the rationale and research behind each one, summarizing the content of the corresponding book chapters. It is hoped that these chapters will pragmatically assist the multidisciplinary team to implement and deliver contemporary practice.

Key Words

Novel; radiopharmaceuticals; hybrid imaging; nuclear medicine; oncology; positron emission tomography