



CME Session 12

Translational Molecular Imaging & Therapy + Oncology & Theranostics + Physics + Technologists Committee

Tuesday, September 12, 16:45-18:15

Session Title

Long Axial Field-of-View PET Scanners - A Copernical Revolution

Chairpersons

Mathieu Hatt (Brest, France)

Chrysoula Vraka (Vienna, Austria)

Programme

16:45 – 17:05 **Harry Tsoumpas** (Groningen, The Netherlands): Hybrid Total Body PET scanners

17:08 – 17:28 **Ronald Boellaard** (Amsterdam, The Netherlands): Non-Oncological applications

17:31 – 17:51 **Antonia Dimitrakopoulou-Strauss** (Heidelberg, Germany): Clinical Perspectives of Total Body PET/CT

17:55 – 18:15 **Joyce van Sluis** (Groningen, The Netherlands): Parametric Imaging with dynamic PET for oncological applications

Educational Objectives

1. Learn about the technical and technological properties of long axial field-of-view PET scanners, as well as their performance and how it constitutes a substantial improvement compared to previous generations of devices.
2. Discover how these new PET/CT scanners can open new clinical perspectives in nuclear medicine
3. Learn about the advantages of total body PET/CT in enabling parametric imaging for oncological applications of nuclear medicine.
4. Discover the use and interest of total body PET/CT for non-oncological applications, especially neurological ones.

Summary

Long axial field-of-view PET scanners have been recently introduced as “total body PET/CT” devices. This session will present through four talks given by experts in the field, their technological properties and their imaging performance, the perspectives these can open for clinical applications in nuclear medicine, their interest and value to carry out dynamic acquisitions for parametric imaging in oncological applications of nuclear medicine, and finally the benefits of these new devices for non-oncological applications (i.e., neurology).

Key Words

Total body PET, parametric imaging, oncology, neurology