



CME Session 7

Neuroimaging Committee

Monday, October 21, 15:00 - 16:30

Session Title

CZT SPECT in Neuroimaging: from Scintigraphy to Theranostics

Chairpersons

Laetitia Imbert (Nancy, France)

Antoine Verger (Nancy, France)

Programme

15:00 - 15:20 **Laetitia Imbert** (Nancy, France): CZT SPECT in brain applications: the physicist point of view

15:20 - 15:45 **Debora Peretti** (Geneva, Switzerland): CZT SPECT in brain perfusion imaging

15:45 - 16:10 **Diego Cecchin** (Padova, Italy): CZT SPECT in dopaminergic imaging

16:10 - 16:30 **Caroline Boursier** (Nancy, France): CZT SPECT in theranostics of brain tumours

Educational Objectives

1. To learn about advantages of CZT SPECT systems for neuroimaging
2. To understand the feasibility and applications of brain perfusion and dopaminergic imaging with CZT SPECT
3. To acquire skill in theranostics for brain tumors with CZT SPECT imaging

Summary

CZT SPECT is an imaging modality in expansion in departments of nuclear medicine with a 2D geometry (dual head SPECT cameras) but also 3D geometry (360° CZT or 3D-ring). This session will present the advantages of using CZT SPECT systems for brain applications with a focus on the 3D geometry system. The brain perfusion and dopaminergic imaging applications will be presented with this imaging system, as well as dedicated scintigraphies for theranostics of brain tumours.

Key Words

CZT; neurology; brain perfusion; DAT imaging; theranostics