CME Session 4

Cardiovascular + Physics Committee
Sunday, October 5, 16:45 – 18:15

Session Title

Total Body Imaging: Think Big, Think Forward! (Cardio)

Chairpersons

Carmela Nappi (Napoli, Italy)
Stephan Nekolla (Munich, Germany)

Programme

16:45 – 17:05 **Laetitia Imbert** (Nancy, France): Long axial field of view CZT cameras: physical principles CZT cameras
17:05 – 17:25 **Johanna Diekmann** (Hannover, Germany): Advances in cardiovascular imaging with CZT cameras
17:25 – 17:45 **Stefaan Vanderberghe** (Ghent, Belgium): New PET systems: more than a longer field of view
17:45 – 18:05 **Federico Caobelli** (Bern, Switzerland): LAFOV PET in cardiovascular imaging
18:05 – 18:15 Discussion

Educational Objectives

1. Understand the physical principles and technological advancements of long axial field-of-view (LAFOV) imaging systems, including CZT and PET cameras.
2. Explore the impact of LAFOV imaging on cardiovascular imaging, including improved sensitivity, spatial resolution, and clinical applications.
3. Discuss the future potential of total-body imaging technologies in cardiovascular and multi-organ diagnostics.

Summary

Total-body imaging represents a transformative approach in nuclear medicine, leveraging long axial field-of-view (LAFOV) systems to enhance image quality, reduce acquisition time, and improve diagnostic accuracy. This session will cover the physical principles behind LAFOV CZT SPECT and PET cameras, showcasing their advantages in cardiovascular imaging. Experts will present recent technological advances and discuss their clinical implications, particularly in the assessment of cardiac diseases like coronary artery disease. The session will conclude with a discussion on the future of total-body imaging and its potential integration into routine clinical practice.

Key Words

Long axial field-of-view (LAFOV); CZT cameras; PET systems; Cardiovascular imaging