



Special Track Session 6

Cardiovascular Committee

Monday, October 19, 09:45–11:15

Session Title

Challenge the Expert: Myocardial Blood Flow in Practice

Moderators

Samia Massalha (Haifa, Israel)

Stephan Nekolla (Munich, Germany)

Expert

Alain Manrique (Caen, France): Is the Physician Always Right?

Expert

Lars Poulsen Tolbod (Aarhus, Denmark): In Case of Doubt, Ask the Physicist

Challengers

Carmela Nappi (Napoli, Italy)

Matthieu Bailly (Orléans, France)

Educational Objectives

1. To compare MBF quantification using different modalities, PET versus SPECT: strengths and limitations.
2. To understand the factors influencing MBF accuracy and reproducibility.
3. To work through challenging clinical cases, including microvascular dysfunction, obesity, multi-vessel disease, balanced ischaemia, renal failure, and hypertrophy.
4. To recognise pitfalls and artefacts in MBF imaging.
5. To combine physics insight with clinical interpretation.

Summary

This is an interactive challenge of experts in nuclear cardiology and physics, using a number of selected real-world clinical cases of SPECT and PET. Special emphasis will be on ambiguous cases.

Two physicians will challenge the experts, testing the boundaries of the technology from both clinical and technical points of view, by questioning the assumptions made and exploring the limits of what imaging can tell us.

Key Words

PET; SPECT; MFR; MBF; Physics