

Barcelona, Spain

Annual Congress of the
European Association of Nuclear Medicine

October 12 – 16, 2019
Barcelona, Spain

Joint Symposium 7 (Physics + Dosimetry Committee / American Association of Physicists in Medicine (AAPM))

Sunday, October 13, 16:30-18:00

Session Title

Interventional Nuclear Medicine

Chairpersons

Assen Kirov (New York, United States / AAPM)

Bernhard Sattler (Leipzig, Germany)

Programme

- 16:30 - 16:50 Fijs van Leeuwen (Leiden, Netherlands): Nuclear Medicine Approaches in Guiding Surgical Procedures - Review and Current Status
- 16:50 - 17:10 Assen Kirov (New York, United States of America / AAPM): Methodological Aspects of PET/CT Guided Interventions
- 17:10 - 17:30 Marnix Lam (Utrecht, Netherlands): Future Perspectives of Radioembolization Interventional Methods
- 17:30 - 17:50 Andreas Melzer (Leipzig, Germany): NM Guided Focused Ultrasound - A Potential Future Application
- 17:50 - 18:00 All Speakers: Panel Discussion, Questions

Educational Objectives

1. To learn about minimally invasive interventional procedures as an emerging field in many disciplines in medicine.
2. To learn about the current status of guiding interventions using molecular imaging and the methodological aspects of this process, particularly when it comes to hybrid imaging such as PET/CT.
3. To learn about alternative procedures of interventions such as focussed ultrasound, the clinical entities it is applied to and the potential of molecular imaging procedures for its guidance and follow up.
4. To learn about radioembolization techniques and devices as a combination of classical interventional radiology procedures as a facilitator for the intraarterial/intratatumoral application of therapeutic radionuclides, its image guided planning, monitoring and verification as well as future perspectives and emerging alternative radionuclides.

Summary

More and more nuclear medicine imaging procedures gain interest for guiding surgical and interventional radiology procedures. This Session gives an overview of molecular imaging guided interventions, their basics and methodological aspects as well as their emerging, present and potential clinical applications. Radioembolization of liver lesions using radioactive microspheres is also reviewed as a rapidly growing technique requiring both interventional radiology and nuclear medicine expertise.

Keywords

Molecular Imaging guided Interventions, Radioembolization, focussed ultrasound