

Mid-Congress-Symposium 4

Translational Molecular Imaging & Therapy + Oncology & Theranostics Committee

Monday, October 26, 14:00-16:45

Session Title

Image Guided Surgery

Chairperson

Sergi Vidal-Sicart (Barcelona, Spain)

Programme

- 14:00 - 14:27 Sergi Vidal-Sicart (Barcelona, Spain): Sentinel Lymph Node – An Overview of the Different Tracers/Technologies for SLN. Strengths and Limitations
- 14:27 - 14:54 Jan Grimm (New York, United States of America): Image Guidance Using Common PET Tracers such as 18F-FDG
- 14:54 - 15:21 Tobias Maurer (Hamburg, Germany): From PET to SPECT - Optimizing Surgical Guidance in Pelvic Cancers
- 15:21 - 15:36 Break**
- 15:36 - 16:11 Tessa Buckle (Leiden, Netherlands): The Next Step in Image-Guided Surgery, Tracer Refinements and Complementary Use of Different Tracers
- 16:11 - 16:41 Claire Schilling (London, United Kingdom): Using Navigation and Hybrid Tracer or Radiotracer + ICG in Head and Neck Cancers

Educational Objectives

1. Review of tracers and techniques for sentinel lymph node localisation
2. Review principles and techniques of image guided surgery
3. Review of advantages and limitations of Image Guided Surgery

Summary

The accurate sentinel lymph node biopsy requires teamwork from a team of nuclear medicine physicians, surgeons and pathologists. In general, there are several radiopharmaceuticals used for lymphatic mapping in cancers such as Melanoma, breast oral cancers, penile cancer, prostate cancer etc. There are several techniques such as dynamic imaging, planar and SPECT-CT used in localising the sentinel lymph nodes. Technological advances have taken nuclear medicine to opera rating theatres. Radio guided surgery helps the surgeon to identify nodes that have been preoperatively marked with radioactive substances. Radio guided surgery has proven to be a useful, safe and effective. The session will focus on tracers, techniques and recent innovations, pathways in localising and retrieving the sentinel lymph nodes, especially in complex areas like pelvis and head & neck.

Key Words

Sentinel lymph node, Image Guided Surgery, Pelvic cancer, Head and neck tumours