Pre-Congress Symposium 5
Translational Molecular Imaging & Therapy + Oncology & Theranostics Committee
Saturday, October 17, 09:00-12:00

Session Title
Image Guided Surgery

Chairpersons
Sergi Vidal-Sicart (Barcelona, Spain)
Tessa Buckle (Leiden, Netherlands)

Programme
09:00 - 09:25  Sergi Vidal-Sicart (Barcelona, Spain): Sentinel Lymph Node – An Overview of the Different Tracers/Technologies for SLN. Strengths and Limitations

09:25 - 09:50  Jan Grimm (New York, United States of America): Image Guidance Using Common PET Tracers such as 18F-FDG

09:50 - 10:15  Tobias Maurer (Hamburg, Germany): From PET to SPECT - Optimizing Surgical Guidance in Pelvic Cancers

10:15 - 10:45  Coffee Break

10:45 - 11:20  Tessa Buckle (Leiden, Netherlands): The Next Step in Image-Guided Surgery, Tracer Refinements and Complementary Use of Different Tracers


11:50 - 12:00  Discussion

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 operating 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