CTE 1
Technologist Committee
Thursday, October 22, 13:30-15:00

Session Title
Tech Guide Launch

Chairperson
Marius Mada (Cambridge, United Kingdom)

Programme
13:40 - 14:05 Sebastijan Rep (Ljubljana, Slovenia): QC of Hybrid Systems
14:05 - 14:30 Carla Abreu (Sutton, United Kingdom): The Contribution of Hybrid Imaging to Radionuclide Therapy
14:30 - 15:00 Anne L. Strömwall (Umeå, Sweden): Physics and Reconstruction Methods of SPECT/CT

Educational Objectives
1. Understand the role of CT in improving diagnostic with SPECT/CT
2. Understand the clinical need of quantitative SPECT/CT
3. Describe the process of radionuclide therapy
4. Highlight the role of the technologist in performing high quality SPECT/CT diagnostic imaging
5. Identify and describe parameters and procedures for robust image quality
6. Understand the commercial implementation of quantitatification methods

Summary
This year’s Tech Guide is covering the role of SPECT/CT in Nuclear Medicine. The content of the Guide covers all areas of SPECT/CT from the description of the method to clinical applications, including radiotherapy and notions of quality assurance and quality control.
The launch of the Tech Guide is focusing on the importance of conventional Hybrid Imaging in Nuclear Medicine diagnostic and radiotherapy. The session is looking at the future of the modality and the role of technologists in improving its clinical value. Quantitative SPECT/CT has proven to be an important feature of the Nuclear Medicine diagnostic power and theranostics has been a trend in the last few years.
Technologists are exposed to advancing SPECT/CT instruments and have a paramount role in delivering high quality imaging. Understanding well the physics of the modality, as well as the commercial implementations across the main manufacturers is critical.
A joint session with the SNMMI colleagues is a reflection of the collaboration across Europe and US that made the advancements in SPECT/CT possible.

Key Words
Hybrid Conventional Nuclear Medicine, SPECT/CT, Quantitative SPECT/CT, Radionuclide Therapy, Theranostics