CME 5
Oncology & Theraonotics Committee
Friday, October 23, 13:50-15:20

Session Title
Imaging Hepatobiliary and Pancreatic Tumours – Pearls, Patterns and Pitfalls

Chairperson
Karolien Goffin (Leuven, Belgium)

Programme
13:50 - 14:10 Carlos Carvalho (Lisbon, Portugal): What do we Need from Imaging in Hepatobiliary and Pancreatic Tumours - A Clinician’s View

14:10 - 14:30 Rickmer Braren (Munich, Germany): Abdominal 3T MRI and Spectral CT Imaging of Pancreatic and Biliary Cancer - Review of Imaging Techniques, Protocols and Findings

14:30 - 14:54 Sofia Carrilho Vaz (Lisbon, Portugal): Hepatic and Biliary System - Pearls, Patterns and Pitfalls of PET/CT Imaging

14:54 - 15:18 Gopinath Gnanasegaran (London, United Kingdom): Pancreas and Gallbladder - Pearls, Patterns and Pitfalls of PET/CT Imaging

Educational Objectives
1. Understand current clinical evidence and questions related to imaging in hepatobiliary and pancreatic tumours
2. Review specific clinical applications of imaging in hepatobiliary and pancreatic tumours
3. Recognise common PET/CT patterns in patients with hepatobiliary and pancreatic tumours
4. Review common pearls and pitfalls in PET/CT, CT and MRI imaging of hepatobiliary and pancreatic tumours

Summary
This session is designed for nuclear medicine specialists and residents with interest in hepatobiliary and pancreatic oncology. It is the aim to give an overview of the current clinical needs for imaging and the diagnostic methods that can be applied in patients with hepatobiliary and pancreatic tumours. Different imaging strategies using spectral CT, 3T MRI and hybrid PET/CT at diagnosis and in follow-up will be discussed.

In the first talk, the influence of imaging criteria on current clinical decision making will be addressed, with a focus on the most common primary liver and pancreatic tumours, namely hepatocellular carcinoma (HCC), cholangiocarcinoma and pancreatic ductal adenocarcinoma (PDAC).

The second talk will discuss the possibilities of modern radiological imaging to enable early detection and exact classification of hepatic, biliary and pancreatic cancer, needed for the planning of an optimal stage-specific therapeutic regimen. An introduction will be given for state-of-the-art CT and MRI techniques, imaging protocols and imaging findings and their differential diagnoses.
The third and fourth talk will discuss the possibilities of hybrid PET-imaging with different PET-tracers in the diagnosis and follow-up of patients with hepatic and biliary tumours, on the one hand, and pancreas and gallbladder tumours, on the other hand. Apart from common patterns and normal variants, that need to be well understood to avoid misinterpretation, imaging pearls and pitfalls will be addressed.

**Key Words**
PET/CT, spectral CT, 3T MRI, hepatobiliary malignancy, pancreatic malignancy