



Learn & Improve Professional Skills 13

Oncology and Theranostics Committee

Wednesday, October 23, 08:00 - 09:30

Session Title

PET/MRI - What Should We Know?

Chairpersons

Karolien Goffin (Leuven, Belgium)

Matthijs Cysouw (Amsterdam, Netherlands)

Programme

08:00 - 08:30 **Niloefar Ahmadi Bidakhvidi** (Leuven, Belgium): Basic principles and clinical applications

08:30 - 09:00 **Christoph Berliner** (Essen, Germany): Abdominal PET/MR in oncology

09:00 - 09:30 **Francesco Fraioli** (London, United Kingdom): PET/MR in neuro-oncology

Educational Objectives

1. Gain knowledge about PET/MR imaging focusing on the basic principles, potential pitfalls, MR safety aspects and the current general clinical applications.
2. Gain knowledge of specific applications of combined PET/MR in abdominal oncology, with specific attention to genitourinary malignancies and learn to interpret relevant findings.
3. Gain knowledge of specific applications of combined PET/MR in neuro-oncology and learn to interpret relevant findings.

Summary

Hybrid PET/MR imaging has been introduced in the nuclear medicine field in the last decade. Compared to CT, MRI has several benefits including high soft tissue contrast and no radiation exposure. In this session we will discuss the origin of PET/MRI, the method of acquisition and its differences with PET/CT, potential pitfalls for implementation in routine clinic and the general current clinical applications. More specifically, applications of PET/MR in abdominal oncology and neuro-oncology will be demonstrated with clinical illustrations.

Key Words

PET/MRI; pitfalls; MR safety; abdominal oncology; neuro-oncology