Mini Course 1
Technologists Committee
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Session Title
Safety in PET/MRI

Chairperson
Andras Kedves (Kaposvár, Hungary)

Programme
28 min  Vitor Silva (Porto, Portugal): Safety in Magnetic Resonance Imaging

29 min  Marianne Federspiel (Copenhagen, Denmark): Safety in the Hybrid PET/MRI System

3 min  Session Summary by Chairperson

Educational Objectives
1. To make an overview of safety principles of MR and PET/MR Imaging
2. To have an understanding of best practice methods for patient as well as for the staff.
3. To get a practical view of working procedures and the safety concerns in a PET/MRI department.

Summary
Magnetic Resonance Imaging (MRI) technology requires very specific safety concerns which are not usual at a Positron Emission Tomography (PET) common facility. With the rise of the hybrid imaging era, systems of both PET and MR imaging technologies have been developed for both clinical application and research area. In this context, it is necessary to understand which are the safety measures that need to be thought about when accommodating these two imaging systems in the same equipment and how to set up a PET/MRI room and imaging protocols. The application of safety regulations that ensure the safety of patients, employees, and research subject, and also the MRI diagnostic tests, interventional procedures, intraoperative studies and research that are performed the examining room.

The regular revision of these rules should be based upon the latest research findings and expert recommendations, and it should be followed by an upgrade of test equipment.

Key Words
Safety, PET/MRI, Hybrid Imaging