

ISMRM WORKSHOP ON MR Safety: From Science to Clinical Practice

Endorsed by the American Association of
Physicists in Medicine (AAPM)



24-26 September 2025



Physikalisch-Technische Bundesanstalt (PTB)
Berlin, Germany



OVERVIEW

The focus of the 2025 ISMRM Workshop on MR Safety will focus on MR safety practices as experienced by MR clinics worldwide. This will include education for ISMRM and ISMRT members on practical safety topics like MR safety infrastructure and management but also upcoming topics like implant safety, low- and mid-field MR safety, and MR safety in interventional settings. With this setup, we hope to attract especially technologists/radiographers (ISMRT members) to the workshop who experience ever- growing MR safety issues in their clinics daily.

Additionally, the workshop will be a forum for clinicians, scientists, and engineers to discuss the latest developments with respect to MR safety. It will help to evaluate the current state of MR safety, identify needs and gaps in clinical/scientific practice, and transform these into required working items for scientific, clinical, regulatory, and industrial innovations. These include AI methods, in-vivo temperature mapping, and parallel transmission techniques. Dedicated sessions will discuss MR safety for special settings such as pediatric and prenatal MRI, portable MRI, MR-guided radiation therapy, and MR safety at UHF fields above 10T. This will be completed by exhibiting open-source hardware equipment for MR safety testing such as a portable low-field MRI scanner, RF coils, parallel transmission hardware, and implant safety testing equipment.

This workshop will feature presentations and discussions led by topic experts. Additionally, we will invite abstract submissions for both scientific and clinical posters. A selection of the submitted abstracts will be offered the opportunity to be presented as 4- to 5-minute power pitches.

This workshop will be held as a hybrid workshop to allow wider attendance and reduce the CO₂ footprint of the meeting.

During the workshop, an exhibition featuring Open Source Hardware and Open Source Software for MR safety will highlight and support collaborative approaches to open science.

TARGET AUDIENCE

We expect an audience of clinicians, physicists, engineers, students, technologists/radiographers, regulators, industry representatives, and everyone else interested in or responsible for MR safety. We hope to attract participants from all over the world.

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EDUCATIONAL OBJECTIVES

Upon completion of this activity, participants should be able to:

- Practice patient safety for an increased number of cases;
- Evaluate and revise instructions for safe use of devices in MR setting;
- Recognize the physics of MR safety; and
- Appraise the culture assuring MR safety in their own institutions.

ORGANIZING COMMITTEE

Chair: Lukas Winter, Ph.D.

Organizing Committee: Maureen Hood, Ph.D., Bernd Ittermann, Ph.D., Titti Owman, R.N.(R)(CT)(MR)FSMRT



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