SGSMP SSRPM SSRFM
Schweizerische Gesellschaft für Strahlenbiologie und Medizinische Physik
Société Suisse de Radiobiologie et de Physique Médicale
Società Svizzera di Radiobiologia e di Fisica Medica
Swiss Society of Radiobiology and Medical Physics
Member of the European Federation of Organisations for Medical Physics (EFOMP) and the International Organization for Medical Physics (IOMP)

SSRMP/ISROI WORKING GROUP «Medical Physics Experts (MPE) and Medical IT specialists (MIS) working together in radiation oncology departments»

Formation of the SSRMP/ISROI Working Group

The SSRMP is pleased to announce the formation of a new working group focused on fostering collaboration between Medical Physics Experts (MPE) and Medical IT Specialists (MIS) within radiation oncology departments. This initiative aims to enhance interdisciplinary cooperation, ensuring the integration of medical physics and information technology to support the advancement of patient care and departmental efficiency.

Invitation to Experts

Dear experts,
as described in the position paper authored by the International Society for Radiation Oncology Informatics (ISROI) “The need for IT specialists in radiation oncology …” (Peters et al, 2025), there is a need for Medical IT Specialists (MIS) in radiation oncology departments. This position paper also describes in detail the reasons for this. Some aspects emerged from this paper should be described in more detail and need to be examined in greater depth, as they relate to the work content and tasks often performed by medical physicists.

We invite you to participate in this important working group, which will address the topics in three different phases, to ensure the working group operates as efficiently as possible, so that partial results are visible early on.

Objectives and Scope of the Revision

Phase 1 – Catalogue of tasks:

Many IT related tasks are often caried out by medical physics experts (MPE) and this may interfere with the fields and tasks for MIS (and vice versa). For optimal work organisation a clear distinction of task between MIS and MPE has to be defined. In this first phase the IT related tasks that are to be carried out in radiation oncology departments have to be defined and based on that a clear distinction of responsibilities and accountabilities has to be made. As a result, a task catalogue should be created that describes the tasks of an MIS in more detail so that a clearer distinction from the MPE is possible.

Phase 2 – Skills and training requirements:

The tasks defined in phase 1 can only be performed by MPEs and MISs with the necessary skills and knowledge. It is therefore important to create a training catalogue for MISs and MPEs that covers all these skills. Such a catalogue already exists for MPEs, of course, but it should be expanded and supplemented as necessary to reflect the tasks that have been developed during phase 1. The existing training programs for medical IT specialists at universities and similar institutes should also be taken into account. The result should be a detailed catalogue of competencies and a training concept.

Phase 3 – Safety and quality aspects:

Evaluation of digital systems and processes in RO departments and how MIS and MPE with the needed skill sets add value to the patient safety and treatment quality. This may include identifying and describing various systems used in RO, their impact on patient safety and the associated different levels of risk. This should be based on a review of the legal regulations, laws and recommendations relating to information technology in radiation oncology and health care in general.

Task Group Details

- Task Group Name: Medical Physics Experts (MPE) and Medical IT Specialists (MIS) working together in radiation oncology departments
- Chairperson: SSRMP Member (tbd), ISROI Member (tbd)
  This working group is co-chaired by a member of SSRMP and a member of ISROI
- Start Date: 01. Mai 2026
- End Date Phase 1: 31. Mai 2027

Contact Information

If you are interested in contributing to this working group, please contact Lisa James at l.james@strahlentherapie-muenchen.de.