



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)

## DESCRIPTION OF SSRMP WORKING GROUP

**Working group name:** Room shielding in the kV-domain

**Chair person:** Saltybaeva Natalia

### **Aims and roadmap.**

The Radiological Protection Ordinance (RöV / OrX) provides the basic rules for calculation of the room shielding required for safe usage of X-ray devices.

However, there are multiple cases that are not explicitly covered by the law and could become a subject of discussions. This can cause individual interpretations and uncertainties in the process.

The aim of this Working Group is to collect and analyze the cases from Swiss hospitals, that have generated different interpretations. The final goal is to create the recommendations with justified methodology which can be applied in similar cases.

### **Some examples of the foreseen topics are:**

- authorization of two devices in the same room
- clear definition of "Nutzstrahlung / Rayonnement primaire"
- safety margins and minimal values for mA, kV and thus required amount of Pb suggested by RöV / OrX

### **Timeline:**

- in-person meeting, presentation of the case examples
- collection of additional cases and proposed solutions
- 1<sup>st</sup> online meeting, discussion of the cases
- 2<sup>nd</sup> meeting (online or offline) to discuss the cases and solutions
- preparation of the report
- online meeting

### **Anticipated results**

Recommendation

Report

**Professional relevance:** Establish a methodology to calculate radiation protection plans for a variety of cases not explicitly covered by the RöV/OrX.

**Educational relevance:** Provide a set of documented examples that can be used as "how-to" reference in the training of new Medical Physicists

**Start date:** Fall 2024 (tentative: September)

**End date:** Not later than end of 2025 (ideally: before Summer)