



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: Fluoroscopy systems classification in medical imaging

Chair person: Marie Nowak, PhD

Aims and roadmap:

Article 26 of the Radiological Protection Ordinance (RPO) defines the dose ranges in medical imaging as follows:

- a. Low-dose range if the patient receives an effective dose of less than 1 mSv;
- b. Medium-dose range if the patient receives an effective dose of between 1 mSv and 5 mSv;
- c. High-dose range if the patient receives an effective dose of more than 5 mSv.

In accordance with Article 36 of the RPO, medical physicists must be involved in fluoroscopy in the medium- and high-dose ranges. According to that, the different fluoroscopy procedures should be classified as a function of the effective dose range. This working group has been created to address the following points:

1. Review of literature to understand the variability of fluoroscopy procedures and the associated doses.
2. Describe the various fluoroscopy applications of interest, and define a methodology to create Diagnostic Reference Level in fluoroscopy based on the type of procedure, anatomical localization, or clinical indication for example.
3. Provide the order of magnitude of the doses for typical fluoroscopy procedures.
4. Write a report on the dose levels of fluoroscopy procedures in medical imaging, and define the effective doses of fluoroscopy examinations.

The working group will meet every month, approximately.

Anticipated results

- Report
- Recommendation
- Other: Guidelines

Science relevance: Establish a methodology to calculate the effective dose of fluoroscopy procedures.

Professional relevance: Establish a methodology to classify fluoroscopy procedures in accordance to Article 26 of the Radiological Protection Ordinance.

Educational relevance:

Start date: 1/5/23

End date: 31/12/24