

MRI in Radiotherapy*



The use of MR imaging is becoming increasingly important for radiotherapy planning. However, the optimal integration of MR imaging into the planning and therapy process poses some important challenges and requires special knowledge.

At the same time, there may be far less practical experience with MRI in radiotherapy compared to computed tomography that has been used for many years.

The course takes place in **close cooperation with the Radiation Clinic of the University Hospital Erlangen** under the scientific director Professor Corradini.



The aim of the course is to provide a basic understanding of MRI and its application in radiotherapy. For the most important tumor types the indications for a planning MRI and the special radio-therapeutic requirements for radiation planning will be discussed with clinical experts from University Hospital Erlangen/Radiation Oncology. The procedures of various investigations, as well as the methods used, are taught from the perspective of the radiation oncologist, the medical physicist and the radiation therapy technologist.

**CME credits submitted*

In real hands-on MR examinations the acquired knowledge is applied and deepened. The practical implementation of a dedicated MR program for radiotherapy planning is discussed.

Target group:

Radiotherapists, Medical Physicists and Radiation Therapy Technologists.

Course content:

- The role of MRI in radiation oncology
- Fundamentals of MR imaging for diagnostics and radiotherapy
- MR examinations in radiotherapy planning for the head, head/neck, upper abdomen and pelvis
- Integration of MRI into the radiotherapy workflow
- The role of MRI in brachytherapy
- Implementation of an MR program for radiation oncology

Duration and course language: 3 days, German/English

Organizer: Siemens Healthineers AG in cooperation with University Hospital Erlangen

Venue: Imaging Science Institute (ISI)

Participants: 6–12

Course fee: 1.800€

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