International Conference on Advances in Radiation Oncology #ICARO4

Monday, 2 June 2025 - Thursday, 5 June 2025

Vienna International Centre (VIC)

Scientific Programme

THEMES AND TOPICS

The purpose of the event is to discuss and define the current role and future potential of technological, medical physics and molecular/biological innovations for routine clinical practice in patient-centred radiation oncology. The conference will serve as a forum for the dissemination and exchange of scientific knowledge and best practices in the implementation of technological advances while prioritizing the needs and preferences of patients with cancer. Academic and practice-based papers that fall within the following topics will be welcomed:

- Technological advances and challenges.
- Roadmap for setting up modern radiation oncology facilities.
- New treatment and imaging techniques and clinical evidence.
- Health economics in radiotherapy.
- Developments in treatment planning.
- Dosimetry.
- Auditing procedures.
- Personalized medicine.
- Advances in the treatment of recurrent patients.
- National cancer control strategies.
- Developments in quality assurance and new approaches to quality management.
- Safety in radiation therapy.
- Intensity modulated radiotherapy, including arc-based approaches.
- Image-guided radiotherapy, including MRI guided.
- Stereotactic radiotherapy.
- Proton and light ion therapy.
- Telemedicine.
- Radiation biology.
- Spatially fractionated radiation therapy.
- FLASH therapy.
- Combined therapies.
- Paediatric radiotherapy.
- Clinical research.
- Applied brachytherapy.
- Education and training of professionals.

TARGET AUDIENCE

This conference will offer the opportunity to review the latest technological, clinical, and biological developments of radiotherapy. The main target audience comprises:

- Radiation oncologists.
- Radiation biologists.
- Medical physicists.
- Radiation therapists.

The Conference would also be of interest to scientists, researchers and bio-medical engineers working in the field of radiotherapy.