ESTRO SCHOOL 2025

LIVE COURSE

Advanced Treatment Planning

2-6 November 2025 | Budapest, Hungary

Learn how to create the best treatment plans for your patients. Come and explore new techniques, focus on challenging scenarios and improve your understanding of every step of the planning process.

Target group

The course is aimed primarily at staff involved in advanced treatment planning in their daily routine, preferably with at least two years of experience. This is designed for RTTs, physicists and radiation oncologists with clinical experience and a basic understanding of the fundamental components of treatment planning, who wish to deepen their knowledge of IMRT planning techniques.

Course Aim

This five-day course intends to:

- Enhance the knowledge of comprehensive treatment planning and the understanding of strategies to obtain optimal treatment plans for patients. This implies a complex integration of clinical, imaging, biological and physical/technological knowledge, skills and competencies.
- Focus on challenging scenarios related to the interaction of these issues with a specific focus on dose distribution, with and without computer-aided optimization and modelling, in particular in more complex cases.

Course Content

- Broadening the therapeutic band width
- Dose calculation algorithms and their differences in clinical impact
- Applying ICRU in treatment planning
- Practical guidelines for both step-and-shoot IMRT and VMAT planning
- Relationships between 3D dose distributions and clinical toxicities, chest, head and neck, pelvis
- Particle therapy planning
- Physical and biological optimisation
- Pareto fronts in clinical practice
- Geometric uncertainties and how to deal with them
- Molecular imaging in treatment planning
- Adaptive planning strategies (both online and offline)
  Autoplanning, online planning, library planning, dose painting planning, robust and probabilistic planning.

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