

Advanced Skills in Modern Radiotherapy

3 – 7 April 2022, Sevilla, Spain.

NH Sevilla Plaza de Armas,
Marqués de Paradas, 13, 41001 Sevilla

Are you a new radiation therapist (RTT) or more experienced? Do you want to expand your knowledge of radiation therapy treatment design and delivery or just refresh your understanding? This course offers RTTs a comprehensive overview of the discipline, whatever your level of expertise.

Target group

Radiation therapy is rapidly evolving, and this has great impact on the role of radiation therapists (RTTs). The target group for this course are RTTs who would like to expand or refresh their understanding of modern radiation therapy treatment design and delivery, and who want the tools to translate this theory into practice. We provide a programme that will serve both new and more experienced RTT. The programme is comprehensive, but targets knowledge and understanding that RTTs specifically need for good clinical practice in modern radiotherapy.

Course aim

Although modern radiation therapy is a group effort of clinicians, physicists and radiation therapists, this course aims primarily at radiation therapists. In this way we are able to give an overview of the steps in modern radiation therapy with enough room and time for radiation therapist specific tools and skills. The theory taught in the lectures are translated into practical sessions when possible. This course also helps the participant in identifying other appropriate ESTRO courses for advanced education and professional development.

Teaching methods

Approximately (4,5 days/36 h): 23 hours of lectures, 3 hours of tutorials and 10 hours of practical workshops.

Learning outcomes

By the end of this course participants should be able to:

- Discuss where modern radiation therapy is at with respect to pre-treatment imaging and target definition, treatment planning and image guidance
- Evaluate the integrity of the entire treatment chain of radiation therapy
- Calculate geometrical uncertainties and margins
- Describe the physics of image registration and discuss its influence on clinical image registration
- Evaluate quality assurance processes used in modern radiation therapy departments

Course content

- Pre-treatment imaging modalities: what is available and how are they used in target definition?
- Patient preparation and immobilisation: what is (im)possible and is it still important in modern radiation therapy?
- Imaging modalities in the treatment room: what is available and how can they be used to verify the target?
- Geometrical uncertainties and correction strategies: what are the uncertainties in modern radiation therapy and how do correction strategies affect PTV margins?
- Image registration and evaluation: how to make the best use of the images at hand Understanding algorithms, regions of interest, correction reference points Site specific advanced treatment and IGRT techniques
- Safety issues: the importance of incidence reporting and a feedback loop

Key words

Radiation therapist (RTT), Pre-treatment imaging, Treatment planning, Image guidance, Geometrical uncertainties

ROADMAP

- ◆ BEST PRACTICE
- RADIATION THERAPISTS

COURSE DIRECTOR

Elizabeth Forde, (IE)

TEACHERS

Martijn Kamphuis (NL)
Philipp Scherer, (AT)
José Luis Lopez Guerra, (ES)
Mirjana Josipovic, (DK)
Lisa Wiersema, (NL)
Peter Remeijer, (NL)
Sofia Rivera, (FR)

PROJECT MANAGER

Karolina Kowalska, ESTRO Office (BE)
kkowalska@estro.org
M +32 477250417

WORKING SCHEDULE

Sunday 3 April:
09:00 – 17:00
Monday 4 April:
08:30 – 16:45
Tuesday 5 April:
08:00 – 17:15
Wednesday 6 April:
09:00 – 17:15
Thursday 7 April:
08:30 – 13:30

LANGUAGE

The course is conducted in English.
No simultaneous translation will be provided.

COURSE ORGANISATION

For any further information, contact ESTRO:
Karolina Kowalska
kkowalska@estro.org
M +32 477250417

TECHNICAL EXHIBITION

Companies interested in exhibition opportunities during this teaching course should contact Karolina Kowalska, Project Manager
kkowalska@estro.org
M +32 477250417



PARTICIPANTS SHOULD REGISTER ONLINE [HERE](#)

These pages offer the guarantee of secured online payments.

The system will seamlessly redirect you to the secured website of OGONE (see www.ogone.be for more details) to settle your registration fee.

If online registration is not possible, please contact us:
ESTRO OFFICE: education@estro.org

Registration fees

Please check the registration deadline date on our website

	STANDARD RATE	DESK RATE
In-training members *	€ 500	€ 675
Members	€ 650	€ 775
Non members	€ 800	€ 900

REDUCED FEES Members from emerging countries may register at a preferential rate of 350 Euro. Emerging country fee applies to individuals from low-income and lower-middle-income economies according to the World Bank listing. [HERE](#)

ESTRO

ESTRO GOES GREEN Please note that the course material will be available online. No printed course book will be provided during the courses.

Affiliations:



Advance registration and payment are required.

On-site registration will not be available.

Since the number of participants is limited, late registrants are advised to contact the ESTRO office before payment, to inquire about availability of places. Access to moodle and course material will become available upon receipt of full payment.

Insurance and cancellation

Cancellation policy related to COVID-19: If you are unable to attend the course due to the COVID-19 emergency, you are entitled to receive a full refund of your registration fee minus 15% handling charges. This policy applies to the following cases:

You have contracted coronavirus (please provide us with a medical certificate)

Travel restrictions have been put in place against your country by the country where the course is held

Timeline for cancellation: 3 days before the course

In case the course might be cancelled by ESTRO, you will receive full refund of the paid registration fee.

The organiser does not accept liability for individual medical, travel or personal insurance. Participants are strongly advised to take out their own personal insurance policies. ESTRO will not be responsible for the refund of travel and accommodation costs.

**Don't miss the registration deadline:
3 March 2022**

