ESTRO SCHOOL 2024

# Advanced Skills in Modern Radiotherapy

**22 – 26 September 2024, Vilnius, Lithuania.**

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 immobilization: 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 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**
Philipp Scherer, (AT)
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**WORKING SCHEDULE**
Sunday 22 September:
09:00 – 17:00
Monday 23 September:
08:30 – 16:45
Tuesday 24 September:
08:0 – 17:15
Wednesday 25 September:
09:00 – 17:15
Thursday 26 September:
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:
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**TECHNICAL EXHIBITION**
Companies interested in exhibition opportunities during this teaching course should contact Martina Hristova, Project Manager
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## 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

**Fees**

| | Early rate | Late rate |
|---|---|---|
| Non-Members | 850 EUR | 950 EUR |
| **ESTRO Members** | **675 EUR** | **825 EUR** |
| In-training members* | 525 EUR | 675 EUR |

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

### 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

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.

In case an unforeseen event would force ESTRO to cancel the meeting, the Society will reimburse the participants fully the registration fees. ESTRO will not be responsible for the refund of travel and accommodation costs.

In case of cancellation, full refund of the registration fee minus 15% for administrative costs may be obtained up to three months before the course and 50% of the fee up to one month before the course. No refund will be made if the cancellation request is postmarked less than one month before the start of the course.

**Early registration deadline:**
**26 June 2024**

## Affiliations:

FALCON
Fellowship in Anatomic delineation and CONtouring