

# Advanced Skills in Modern Radiotherapy

6-10 May 2018 | Rome, Italy

*Technological innovations have resulted in substantial improvements in radiotherapy planning, delivery, and verification. This course offers RTTs (Radiation Therapists) content that connects all steps of radiation therapy.*

## 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 radiation therapists who need 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 will provide a programme that will serve both the new and the more experienced radiation therapist.

This course provides a complete package and comprehensive overview and will also help the participant in identifying the appropriate ESTRO courses for advanced education and personal development.

## COURSE AIM

This course is specifically aimed at radiation therapists, though modern radiation therapy is a group effort for clinicians, physicists and radiation therapists. The focus on radiation therapists will allow enough time for an overview of modern radiation therapy tools and skills, specific for this group. The theory taught in these sessions will be translated into practical sessions when possible.

## LEARNING OUTCOMES

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

- Appreciate where modern radiation therapy is at with respect to pre-treatment imaging and target definition, treatment planning and image guidance
- Appreciate the importance of knowledge of the entire treatment chain of radiation therapy
- Comprehend and calculate geometrical uncertainties and margins
- Comprehend the physics of image registration and its influence on clinical image registration
- Appreciate the importance of quality assurance.

## COURSE CONTENT

- Pre-treatment imaging modalities: what is available and how is it 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 it be used to find the target volume?
- Geometrical uncertainties and correction strategies: what are the uncertainties in modern radiation therapy and how do correction strategies affect PTV margins? How to calculate your own margins (workshop)
- Image registration and evaluation: how to make the best use of the images at hand
- Understanding algorithms, regions of interest, correction reference points: how to create protocols for IGRT management (workshops and hands-on)
- Site specific advanced treatment and IGRT techniques

## ROADMAP

- ◆ RADIOTHERAPY TREATMENT PLANNING AND DELIVERY
- RADIATION THERAPIST

## COURSE DIRECTOR

Rianne de Jong (NL)

## TEACHERS

Elizabeth Forde (IE)  
José Luis Lopez Guerra (ES)  
Mirjana Josipovic (DK)  
Martijn Kamphuis (NL)  
Peter Remeijer (NL)  
Sofia Rivera (FR)

## LOCAL ORGANISER

Daniilo Pasini  
Policlinico Universitario Agostino Gemelli  
Rome  
daniilo\_pasini@yahoo.it

## PROJECT MANAGER

Elena Giusti

## WORKING SCHEDULE

The course starts on 6 May 2018 at 09:00 and ends on 10 May 2018 at 13:30.

## LANGUAGE

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

## COURSE ORGANISATION

For any further information please contact ESTRO:  
Elena Giusti  
E-mail: [egiusti@estro.org](mailto:egiusti@estro.org)  
Tel : +32 2 775 9016  
Fax : +32 2 779 54 94

## COURSE VENUE

Fondazione Policlinico Universitario A. Gemelli  
Largo A. Gemelli, 8  
00168 Roma

## TECHNICAL EXHIBITION

Companies interested in exhibition opportunities during this teaching course should contact ESTRO:  
Elena Giusti  
E-mail: [egiusti@estro.org](mailto:egiusti@estro.org)  
Tel : +32 2 775 9016  
Fax : +32 2 779 54 94

## ACCOMMODATION

To book your room, please download the accommodation form from the ESTRO website:  
[www.estro.org/school](http://www.estro.org/school)

- Safety issues: the importance of incidence reporting and a feedback loop
- Implementing and managing advanced treatment techniques: how to implement new gained skills in your department in a multidisciplinary environment.

### PREREQUISITES

Before commencing this course participants should have an interest in all steps of radiation therapy.

### TEACHING METHODS

Approximately (4,5 days/36 h):

- 23 hours of lectures
- 3 hours of tutorials
- 10 hours of practical workshops.

### METHODS OF ASSESSMENT

- MCQ
- Delineation exercises
- Evaluation form.

### KEY WORDS

Radiation therapist (RTT), pre-treatment imaging, treatment planning, image guidance, geometrical uncertainties.

This course is using the FALCON platform (Fellowship in Anatomic deLineation and CONtouring) for the contouring exercises



## PARTICIPANTS SHOULD REGISTER ONLINE AT: [WWW.ESTRO.ORG/SCHOOL](http://WWW.ESTRO.ORG/SCHOOL)

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](http://www.ogone.be) for more details) to settle your registration fee.

If online registration is not possible please contact us:

ESTRO OFFICE

Rue Martin V, 40 • B-1200 Brussels

Tel.: +32 2 775 93 39 • Fax: +32 2 779 54 94

E-mail: [education@estro.org](mailto:education@estro.org)

### REGISTRATION FEES

Please check the early deadline date on our website

	EARLY FEE	LATE FEE
In-training members*	450 €	625 €
Members	600 €	725 €
Non members	750 €	850 €

\*Radiation Therapist (RTT) members are eligible for the in-training fee

The fee includes the course material, coffees, lunches, and the social event.

**Reduced fees** are available for ESTRO members working in economically less competitive countries. Check the eligible countries and the selection criteria on the website of the ESTRO School.

**ESTRO goes green:** Please note that the course material will be available online. No 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 homework and/or 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 full registration fees to the participants, 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.