

# 2016 ESTRO SCHOOL LIVE COURSE



## TARGET VOLUME DETERMINATION - FROM IMAGING TO MARGINS

10 - 13 April 2016 | Barcelona, Spain



IMAGING

WHO?

**COURSE DIRECTOR**  
Gert de Meerleer (BE)

**TEACHERS**  
Meritxell Arenas (SP)  
Brendan Carey (UK)  
Maria Antonietta Gambacorta (IT)  
Sarah Jefferies (UK)  
Martina Kunze-Busch (NL)  
Indira Madani (BE)  
Peter Remeijer (NL)  
Esther Troost (DE)

**LOCAL ORGANISER**  
Angeles Rovirosa

**PROJECT MANAGER**  
Luis Teixeira

### TARGET GROUP

The course is aimed at trainees in radiation oncology and radiotherapy physics with at least one year's experience, diagnostic radiologists with an interest in cancer imaging, radiation technologists with special interest in planning. However, any senior who would like to refresh part of her/his knowledge would benefit from this course.

### COURSE AIM

- To understand the principles of different imaging modalities utilised for target volume definition (TVD) such as ultrasound, computed tomography (CT), magnetic resonance imaging (MRI), positron emission tomography (PET)
- To understand the need for TVD and planning nomenclatures for primary tumour, nodal regions and organs-at-risk in treatment planning and for treatment strategies such as IMRT and image guidance (IGRT)

- To appreciate the limitations of current imaging modalities for TVD and review "state-of-the-art" imaging modalities for TVD
- To explore the use of functional and molecular imaging in TVD for biological targets
- To review the diagnostic imaging and therapy interface for image registration and verification as well as margin determination.

### LEARNING OUTCOMES

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

- Understand the optimal imaging requirements for treatment planning of a large variety of tumours
- Have sufficient knowledge to determine adequate "margins"
- Have sufficient expertise to initiate an IGRT protocol
- Apply anatomical knowledge in daily clinical practice.

### COURSE CONTENT

- Imaging techniques for GTV/CTV including ultrasound, CT, MRI and PET
- Functional and molecular imaging in oncology
- Optimal imaging guidelines in selected tumour sites
- Target volume and margin definitions and determination including inter-observer variations
- Acquisition of imaging data for treatment planning
- Image handling, image fusion and networking
- Target volumes for CNS tumours
- GTV to PTV for head and neck tumours
- Target volumes for breast nodal regions
- Planning volumes for lung cancer including planning with PET/CT

- GTV to PTV for pelvic tumours and pelvic nodes including urological, gynaecological and gastro-intestinal tumours
- Geometric uncertainties in conformal radiotherapy and IMRT
- Image registration for conformal therapy, IMRT and IGRT
- Practical collaborative group exercises
- Interactive plenary sessions for case solutions.

### PREREQUISITES

Before commencing this course participants should have:

- Basic knowledge on ICRU
- Access to CT-guided planning.

### TEACHING METHODS

- 20 hours of lectures
- 4 hours of practical workshops
- 4 hours of case discussions

### METHODS OF ASSESSMENT

- Delineation exercise
- Evaluation form.

### KEY WORDS

Anatomy, modal spread, margins, imaging, IGRT.

### WORKING SCHEDULE

The Course starts on Sunday 10 April 2016 at 9:00 and ends on Wednesday 13 at 17:30.

### LANGUAGE

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

## PRACTICAL ORGANISATION

### Course organisation

For any further information please contact ESTRO:

Luis Teixeira

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

Tel : +32 2 775 93 37

Fax : +32 2 779 54 94

### Course venue

The Medicine Campus

“Aula Magna”

Hospital Clínic August Pi i Sunyer

Carrer de Casanova, 143

08036 Barcelona

Spain

### Local organiser

Angeles Roviroso

Radiation Oncologist

Hospital Clinic Barcelona

Barcelona, Spain

### Technical exhibition

Companies interested in exhibition opportunities during this teaching course should contact ESTRO:

Luis Teixeira

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

Tel : +32 2 775 93 37

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)



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.