IMAGE-GUIDED AND ADAPTIVE RADIOTHERAPY IN CLINICAL PRACTICE
23 - 27 October 2016 | Madrid, Spain

COURSE DIRECTORS
Coen Rasch (NL)
Marianne Aznar (DK)

TEACHERS
Gilles Crehange (FR)
Rianne de Jong (NL)
Andrew Hope (CA)
Helen McNair (UK)
Uwe Oelfke (UK)
Jan-Jakob Sonke (NL)
Marcel van Herk (NL)

LOCAL ORGANISER
Ruth Rodriguez Romero

PROJECT MANAGER
Laura La Porta

TARGET GROUP
The course is aimed at all professionals in the field of radiation oncology that are involved in target localisation at any point in the treatment chain, this includes radiation oncologists, radiation physicists, and radiation therapists (RTTs). A good understanding of issues related to target delineation, target localisation and patient set-up is a prerequisite as well as some experience in the field. As the emphasis will be on the integration of image guidance and adaptive techniques as well as their practical implementation, the “team effort” is important. Simultaneous participation of physicists, radiation oncologists and radiation technologists is strongly encouraged.

COURSE AIM
- To cover both theoretical and practical aspects related to the clinical implementation of in-room imaging and plan adaptation in radiotherapy
- To review imaging techniques that can be applied in the workflow of conformal radiotherapy and understand how individual links in the chain of events will influence clinical outcome (from treatment prescription to preparation and planning, to patient set-up and verification)
- To identify potential sources of errors in target delineation/localisation and how IGRT can be of help, with special emphasis on conformal radiotherapy, intensity modulated radiotherapy, adaptive radiotherapy and management of organ motion
- To discuss the concept “target delineation – target localisation” at each particular step in the treatment chain and identify appropriate techniques to increase both efficiency as well as efficacy
- To discuss the concept of treatment adaptation and its implementation in the context of the present technological capabilities
- To offer an overview of available technologies and how to integrate these in clinical practice
- To compare available strategies and help define applicability for particular use
- To present the functionality of the equipment and technology, and identify limitations of a particular method
- To present practical recommendations for establishing an efficient image-guided workflow through optimal integration of available technologies and to emphasise the importance of teamwork and training
- To present the components of a QA strategy of IGRT systems.

LEARNING OUTCOMES
By the end of this course participants should be able to:
- Understand the principles of image guided and adaptive radiotherapy
- Be able to implement image guidance for major patient groups in their home clinic
- Understand the relevant choices for the selection of the best image guidance protocol for their home situation
- Know the potential benefits of various image guidance and ART protocols.

COURSE CONTENT
This is a 5-day course organised to identify the influence of image guidance at important steps in the workflow of radiation therapy. The following items will be covered in view of in-room imaging for therapy guidance:
- Image guidance required for treatment prescription
- Image guidance in treatment preparation and treatment planning
- Image guidance in patient set-up and target localisation during treatment
- Strategies and software tools for adaptive RT
- Image guidance in treatment follow-up.

TEACHING METHODS
- Lectures and workshops
- Regular breakout sessions for MDs, physicists and radiation therapists (RTTs).

METHODS OF ASSESSMENT
- MCQ
- Evaluation form.

KEY WORDS
Image guidance, adaptive radiotherapy.

WORKING SCHEDULE
The course starts on Sunday 23 October 2016 at 13:00 and ends on Thursday 27 October 2016 at 12:30. To be able to start on time, participants are
encouraged to register on Sunday from 9h30 to 11h00.

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

PRACTICAL ORGANISATION
Course organisation
For any further information please contact ESTRO:
Laura La Porta
E-mail: llaporta@estro.org
Tel : +32 2 775 93 54
Fax : +32 2 779 54 94

Course venue
Hotel NH Madrid Ventas
Calle Biarritz, 2
28028 Madrid, Spain
www.nh-hotels.com/hotel/nh-madrid-ventas

Local organiser
Ruth Rodriguez Romero
Physicist
Hospital Universitario Puerta de Hierro-Majadahonda
Madrid, Spain

Technical exhibition
Companies interested in exhibition opportunities during this teaching course should contact ESTRO:
Laura La Porta
E-mail: llaporta@estro.org
Tel : +32 2 775 93 54
Fax : +32 2 779 54 94

Accommodation
To book your room, please download the accommodation form from the ESTRO website: www.estro.org/school

REGISTRATION FEES
Please check the early deadline date on our website

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<th>EARLY FEE</th>
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<tr>
<td>In-training members*</td>
<td>450 €</td>
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*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 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.