

2015 ESTRO SCHOOL LIVE COURSE



IMAGING FOR PHYSICISTS

13 - 17 September 2015 | Leiden, The Netherlands

IMAGING

COURSE DIRECTOR

Uulke van der Heide (NL)

TEACHERS

Piet Dirix (BE)

Koos Geleijns (NL)

Gary Liney (UK)

Daniela Thorwarth (DE)

Tufve Nyholm (SE)

Eirik Malinen (NO)

Cynthia Ménard (CAN)

LOCAL ORGANISER

Anette Houweling

PROJECT MANAGER

Gabriella Axelsson

TARGET GROUP

The course is aimed at trainees in radiotherapy physics, researchers as well as more experienced radiotherapy physicists with an interest in the application of advanced imaging techniques in their radiotherapy practice.

COURSE AIM

- Improve the understanding of the physics principles of MRI, PET and CT
- Explore potential applications of these imaging modalities in clinical practice.

LEARNING OUTCOMES

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

- Understand the basic concepts of MRI and PET physics
- Understand the key technical challenges and solutions unique to the application of MRI, PET and advanced CT in radiotherapy
- Understand the potential and challenges of

biological imaging methods in radiotherapy treatment planning and follow-up.

COURSE CONTENT

- Basic principles of MRI physics
- Fast scanning techniques and volume sequences on MRI
- MRI equipment
- Geometrical integrity of MR images
- Physics aspects of MRI-guided interventions
- Physics of 4D CT
- Physics of cone-beam CT
- PET image reconstruction, SUV thresholding
- The use of PET tracers other than FDG
- Physics principles of advanced functional MRI techniques
- Clinical application in radiotherapy for cancers in brain, head-neck, pelvis (cervix, prostate).

PREREQUISITES

Before commencing this course you should have basic knowledge of radiotherapy physics.

TEACHING METHODS

- 25 lectures (50' lectures)
- 6 hours discussion and presentation of case assignments.

METHODS OF ASSESSMENT

- MCQ
- Evaluation form
- Case assignments

KEY WORDS

MRI, PET, CT.

WORKING SCHEDULE

The course starts on Sunday 13 September

2015 at 08:30 and ends on Thursday 17 September 2015 at 13:00.

To be able to start on time, participants are encouraged to register on Saturday 12 September between 18:00-19:00.

LANGUAGE

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

PRACTICAL ORGANISATION

COURSE ORGANISATION

For any further information please contact ESTRO:
Gabriella Axelsson
E-mail: gaxelsson@estro.org
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Fax : +32 2 779 54 94

COURSE VENUE

HAMPSHIRE HOTEL
Fitland Leiden
Bargelaan 180
2333 CW LEIDEN, The Netherlands
www.hampshire-hotels.com

LOCAL ORGANISER

Anette Houweling
Academic Medical Center
Amsterdam (NL)
a.c.houweling@amc.uva.nl

TECHNICAL EXHIBITION

Companies interested in exhibition opportunities during this teaching course should contact ESTRO:
Gabriella Axelsson
E-mail: gaxelsson@estro.org
Tel : +32 2 775 93 40
Fax : +32 2 779 54 94

ACCOMMODATION

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

PARTICIPANTS SHOULD REGISTER ONLINE AT: 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 for more details) to settle your registration fee.

If online registration is not possible please contact us:
ESTRO OFFICE
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E-mail: 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.

