



**IMAGE-GUIDED CHEMO-RADIOTHERAPY  
IN GYNAECOLOGICAL MALIGNANCIES**  
*- Focus on adaptive brachytherapy*



**COURSE DIRECTORS**

Christine Haie-Meder (FR)  
Richard Pötter (AT)

**TEACHERS**

Daniel Berger (AT)  
Johannes Dimopoulos (GR)  
Ina Jürgenliemk-Schulz (NL)  
Umesh Mahantshetty (IN)  
Taran Paulsen-Hellebust (NO)  
Primoz Petric (SI)  
Peter Petrow (FR)  
Kari Tanderup (DK)

**LOCAL ORGANISER**

Csaba Polgar (HU)  
Tibor Major (HU)

**COURSE COORDINATOR**

Marta Jayes

09-13 OCTOBER 2012 • BUDAPEST, HUNGARY



**3-4 FEBRUARY**  
ESTRO/EANM educational seminar on PET in radiation oncology  
Brussels, Belgium

**11-14 FEBRUARY**  
Multidisciplinary management of breast cancer  
Cairo, Egypt

**12-16 FEBRUARY**  
Physics for clinical radiotherapy  
Ghent, Belgium

**4-8 MARCH**  
Image-guided radiotherapy & chemotherapy in gynaecological cancer - focus on adaptive brachytherapy  
Beijing, China

**11-15 MARCH**  
Dose modelling & verification for external beam radiotherapy  
Izmir, Turkey

**12-16 MARCH**  
Treatment planning for 3D conformal radiotherapy with a focus on positioning, set-up & verification  
Dublin, Ireland

**17-20 MARCH**  
Combined drug-radiation treatment: biological basis, current applications & perspectives  
Gdansk, Poland

**25-29 MARCH**  
Radiotherapy with protons & ions  
Uppsala, Sweden

**25-29 MARCH**  
Multidisciplinary teaching course on prostate cancer  
Lyon, France

**1-4 APRIL**  
Modern brachytherapy techniques  
London, United Kingdom

**15-19 APRIL**  
Molecular oncology for the radiation oncologist  
Florence, Italy

**15-20 APRIL**  
Evidence-based radiation oncology: a clinical refresher course with a methodological basis  
Ljubljana, Slovenia

**9 MAY**  
Pre-conference courses at ESTRO 31  
Barcelona, Spain

**3-7 JUNE**  
IMRT & other conformal techniques in practice  
Amsterdam, The Netherlands

**10-14 JUNE**  
Target volume determination - from imaging to margins  
Porto, Portugal

**24-28 JUNE**  
Advanced treatment planning  
Prague, Czech Republic

**28-30 JUNE**  
Brachytherapy for prostate cancer  
Lisbon, Portugal

**1-4 JULY**  
Multidisciplinary management of head & neck oncology  
Córdoba, Spain

**1-4 JULY**  
Bringing new RT technology into the clinic; an evidence based approach  
St Petersburg, Russia

**2-6 SEPTEMBER**  
Clinical practice & implementation of image-guided stereotactic body radiotherapy  
Würzburg, Germany

**9-13 SEPTEMBER**  
Best practice in radiation oncology. A workshop to train RTT trainers  
Vienna, Austria

**23-27 SEPTEMBER**  
Basic clinical radiobiology  
Athens, Greece

**24-28 SEPTEMBER**  
Evidence-based radiation oncology: a clinical refresher course with a methodological basis  
Viña del Mar, Chile

**30 SEPTEMBER - 4 OCTOBER**  
Advanced imaging for physicists  
Istanbul, Turkey

**7-10 OCTOBER**  
Evidence & new challenges in rectal cancer  
Madrid, Spain

**9-13 OCTOBER**  
Image-guided radiotherapy & chemotherapy in gynaecological cancer - focus on adaptive brachytherapy  
Budapest, Hungary

**14-18 OCTOBER**  
Advanced technologies  
New Delhi, India

**18-20 OCTOBER**  
Multidisciplinary approach of cancer imaging  
Rome, Italy

**3-8 NOVEMBER**  
ESO/ESTRO Masterclass in radiation oncology  
Milan, Italy

**15-18 NOVEMBER**  
Comprehensive quality management in radiotherapy - Part I: Risk Management and Patient Safety  
Bruges, Belgium

**18-22 NOVEMBER**  
Image guided radiotherapy in clinical practice  
Lausanne, Switzerland

**23-24 NOVEMBER**  
EANM/ESTRO educational seminar on PET in radiation oncology  
Vienna, Austria

**29 NOVEMBER-1 DECEMBER**  
Multidisciplinary teaching course on lung cancer  
Brussels, Belgium

**2-5 DECEMBER**  
Modelling  
Copenhagen, Denmark

**5-9 DECEMBER**  
Physics for clinical radiotherapy  
Bangkok, Thailand

NEW!  
New Course International Course

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ESTRO  
school

WWW.ESTRO.ORG

## IMAGE-GUIDED CHEMO-RADIOTHERAPY IN GYNAECOLOGICAL MALIGNANCIES - Focus on adaptive brachytherapy

9-13 OCTOBER 2012 • BUDAPEST, HUNGARY

### COURSE AIM

- To provide a comprehensive overview on the whole field of Gynaecological Radiation Therapy focussing on Brachytherapy and External Irradiation in Cervix Cancer, Endometrial Cancer and Vaginal Cancer
- To provide an overview on evidence-based medicine in Cervical and Endometrial Cancer
- To learn about advanced image-based techniques including IMRT and optimization process in brachytherapy using stepping source technology
- To introduce image-based concepts of GTV, CTV and PTV in Gynaecological Radiation Oncology including both External Irradiation and Brachytherapy (with adaptation during 4D treatment)
- To enable practical implementation of advanced concepts and techniques in Gynaecological External Irradiation and Brachytherapy, including parametrial boost and nodal boost techniques

### TARGET GROUP

The course is aimed at Radiation and Gynaecological Oncologists, Medical Physicists and Radiation Technologists involved in Gynaecological tumour treatments, interested in the implementation of advanced concepts and techniques. A basic knowledge of Gynaecological Oncology is required.

### EDUCATIONAL PROGRAMME

- Normal and pathologic anatomy of female pelvis
- Image based anatomy including US, CT and MRI
  - CTV/ITV for external irradiation
  - GTV, CTV, PTV at diagnosis and at time of brachytherapy
  - Combination of external irradiation and brachytherapy
  - Different application techniques in brachytherapy, including endocavi-

tary and interstitial techniques

- Image requirements for irradiation
- Treatment planning:
  - Brachytherapy techniques, based on standard and individual loading patterns using point doses, including point A and ICRU reference points
  - Advanced techniques in brachytherapy, including individual loading patterns based on images
  - Advanced techniques including conformal external irradiation and IMRT
- Image-based dose-volume assessment applying DVH parameters
- Dose-volume constraints for CTVs and organs at risk
- Dose, dose-rate and fractionation and overall treatment time
- HDR, PDR, MDR & LDR equivalencies
- Radiobiological effects from combined external irradiation and brachytherapy, linear quadratic model
- Prescribing, recording and reporting including ICRU and GEC-ESTRO recommendations
- Nodal dose evaluation, including external irradiation and brachytherapy
- Nodal and parametrial boosts
- EMBRACE study
- Therapeutic outcome: radiochemotherapy, image based EBRT and brachytherapy
- Principles and Practice of evidence-based medicine in Gynaecologic Radio-Oncology
- Delineation workshops: external irradiation and brachytherapy
- Treatment planning workshops
- Possibility to participate in additional web-based contouring training before and after the course (accredited by an additional course certificate)

### WORKING SCHEDULE

The course starts on 09 October 2012 at 09:00 and ends on 13 October 2012. To be able to start on time, participants are encouraged to register on 08 October 2012 from 17:00 onwards.

### LANGUAGE

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

### PRACTICAL ORGANISATION

#### Course organisation

For any further information please contact  
ESTRO: Marta Jayes  
E-mail: [mjayes@estro.org](mailto:mjayes@estro.org)  
Tel.: +32 2 761 06 55 • Fax: +32 2 779 54 94

#### Course venue

Danubius Health Spa Resort Helia  
62-64. Kárpát utca  
1133 Budapest, Hungary  
Tel.: +36 1 889 5800 • Fax: +36 1 889 5801  
[helia.reservation@danubiushotels.com](mailto:helia.reservation@danubiushotels.com)  
GPS Coordinates: N47°31'47" E19°3'19"  
[www.danubiushotels.com/en/our-hotels/hungary/budapest/danubius\\_health\\_spa\\_resort\\_helia](http://www.danubiushotels.com/en/our-hotels/hungary/budapest/danubius_health_spa_resort_helia)

#### Local organisers

- Csaba Polgar  
Radiation Oncologist, National Institute of Oncology, Budapest (HU)  
E-mail: [polgar@oncol.hu](mailto:polgar@oncol.hu)
- Tibor Major  
Physicist, National Institute of Oncology, Budapest (HU)  
E-mail: [major@oncol.hu](mailto:major@oncol.hu)

#### Technical exhibition

Companies interested in exhibition opportunities during this teaching course should contact:  
Marta Jayes - Course coordinator  
Email: [mjayes@estro.org](mailto:mjayes@estro.org)  
Tel.: +32 2 761 06 55 • Fax: +32 2 779 54 94

#### Accommodation

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

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

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  
Avenue E. Mounierlaan 83/12  
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

	Up to 09/07/12 inclusive	After 09/07/12
Technologist members	450 €	625 €
Junior members	450 €	625 €
Members	600 €	725 €
Non members	750 €	850 €

Special fee available for non-sponsored participants coming from Eastern European countries - for details please check the course's page on: [www.estro-education.org/courses/Pages/Budapest2012.aspx](http://www.estro-education.org/courses/Pages/Budapest2012.aspx)

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

ESTRO GOES GREEN - Please note that the course material is now distributed onsite on a USB stick. No printed course book will be provided during the courses.

ADVANCE REGISTRATION & 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.

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.