

ESTRO teaching course on  
*IMRT and Other Conformal Techniques in Practice*

Ghent, 2-6 May 2010

**Teaching staff:** Claudio Fiorino, Italy  
Giovanni Mauro Cattaneo, Italy  
Renaud de Crevoisier, France  
Uwe Oelfke, Germany  
Coen Rasch, Netherlands  
Marco Schwarz, Italy  
Dirk Verellen, Belgium

**Guest lecturers:** Werner De Gersem, Belgium  
Wilfried De Neve, Belgium  
Gert De Meerleer, Belgium  
Frederic Duprez, Belgium  
Valerie Fonteyne, Belgium  
Katrien Vandecasteele, Belgium

## EDUCATIONAL PROGRAMME

SUNDAY	2 MAY 2010	(Ghent University Hospital)
09.00 – 09.15	Introduction to the course	C. Fiorino
<u>Lecture sessions (GROUP A: morning; GROUP B: afternoon)</u>		
09.15 – 10.00 14.00 – 14.45	Implementation of IMRT: what does it mean for the physics department?	W. De Gersem
10.00 – 10.45 14.45 – 15.30	Clinical implementation of IMRT: experience and results	W. De Neve
10.45 – 11.15	<i>Coffee break</i>	
11.15 – 11.45 16.00 – 16.30	IMRT for prostate cancer	V. Fonteyne / G. DeMeerleer
11.45 – 12.15 16.30 – 17.00	IMRT for head and neck cancer	F. Duprez/ W. De Neve
12.15 – 12.45 17.00 – 17.30	IMAT for cervical cancer	G. DeMeerleer / K. Vandecasteele
12.45 – 14.00	<i>Lunch</i>	

Practical demonstrations: 25 minutes each; (GROUP B: morning; GROUP A: afternoon)

Basic QA for IMRT  
 Planning of IMRT  
 Modern imaging for IMRT planning: MRI / MRS / PET-CT  
 Ultrasound guided IMRT and IMAT  
 CBCT guided IMRT (ABS)  
 CBCT guided Arc Therapy (RapidArc)

09.15 – 10.45  
 14.00 – 15.30      Radiotherapy Department

15.30 – 16.00      *Coffee break*

11.15 – 12.45  
 16.00 – 17.30      Radiotherapy Department

17:30 – 19:00      *Welcome reception - Radiotherapy Department*

<b>MONDAY</b>	<b>3 MAY 2010</b>	<b>(Conference Centre Het Pand)</b>
---------------	-------------------	-------------------------------------

09.00 – 09.45	Rationale of IMRT. A clinician's point of view	R.deCrevoisier
09.45 – 10.30	IMRT delivery techniques	U. Oelfke
10.30 – 11.00	<i>Coffee break</i>	
11.00 – 11.45	Dosimetry issues in IMRT	D. Verellen
11.45 – 12.30	Dosimetry of IMRT: TPS and patient QA issues	M. Schwarz
12.30 – 13.45	<i>Lunch</i>	
<i>The Clinical afternoon</i>		
13.45 – 14.30	Imaging and delineation issues in IMRT	C. Rasch
14.30 – 15.30	IMRT for prostate cancer	R.deCrevoisier
15.30 – 16.00	IMRT and stereo for lungs cancer	C. Rasch
16.00 – 16.30	<i>Coffee break</i>	
16.30 – 17.30	IMRT for head and neck	C. Rasch
17.30 – 18.00	IMRT for breast	R.deCrevoisier

<b>TUESDAY</b>	<b>4 MAY 2010</b>	<b>(Conference Centre Het Pand)</b>	
----------------	-------------------	-------------------------------------	--

09.00 – 09.45	Modelling adverse effects after 3DCRT/IMRT	G.M. Cattaneo
09.45 – 10.30	Methods for IMRT inverse plan optimisation	M. Schwarz
10.30 – 11.00	<i>Coffee break</i>	
11.00 – 11.45	Biological inverse planning and dose painting	W. De Neve
11.45 – 12.30	Impact of geometrical uncertainties on IMRT dose distributions	U. Oelfke
12.30 – 14.00	<i>Lunch</i>	
14.00 – 15.30	Clinical case discussion: prostate (Group A)	C. Rasch, R. de Crevoisier, D. Verellen, G.M. Cattaneo U. Oelfke, G. De Meerleer, V. Fonteyne, M. Schwarz, C. Fiorino
14.00 – 15.30	Vendors' session (Group B)	
15.30 – 16.00	<i>Coffee break</i>	
16.00 – 17.30	Clinical case discussion: head and neck (Group A)	
<b>16.00 – 17.30</b>	<b><i>Free (Group B) – free visit of vendor booths</i></b>	

<b>WEDNESDAY</b>	<b>5 MAY 2010</b>	<b>(Conference Centre Het Pand)</b>	
------------------	-------------------	-------------------------------------	--

09.00 – 09.45	Practical issues in planning IMRT	M. Schwarz
09.45 – 10.30	Review of dose-volume relationships: head and neck	C. Fiorino
10.30 – 11.00	<i>Coffee break</i>	
11.00 – 11.45	Review of dose-volume relationships: thorax/abdomen	G.M. Cattaneo
11.45 – 12.30	Review of dose-volume relationships: pelvis	C. Fiorino
12.30 – 14.00	<i>Lunch</i>	
14.00 – 15.30	Clinical case discussion: prostate (Group B)	C. Rasch, M. Schwarz, D. Verellen, G.M. Cattaneo U. Oelfke, G. De Meerleer, R.de Crevoisier, F. Duprez, C. Fiorino

- 14.00 – 15.30 Vendors' session (Group A)
- 15.30 – 16.00 *Coffee break*
- 16.00 – 17.30 Clinical case discussion: head and neck (Group B)
- 16.00 – 17.30 *free (Group A) – free visit of vendor booths***

<b>THURSDAY</b>	<b>6 MAY 2010</b>	<b>(Conference Centre <i>Het Pand</i>)</b>
-----------------	-------------------	--

- |               |   |             |
|---------------|---|-------------|
| 09.00 – 09.45 | Image-guidance in stereotactic RT and IMRT          | D. Verellen |
| 09.45 – 10.30 | Arc IMRT: planning performances                     | C. Fiorino  |
| 10.30 – 11.00 | <i>Coffee break</i>                                 |             |
| 11.00 – 11.45 | Future perspectives of IMRT                         | W. De Neve  |
| 11.45 – 12.30 | Open debate starting from questions of the students | The Faculty |
| 12.30 – 13.00 | Examination   |             |
| 13.00 – 13.30 | Handing out of the certificates                     |             |