

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	<i>Coffee break</i>
11.15 – 12.45 16.00 – 17.30	Radiotherapy Department
17:30 – 19:00	<i>Welcome reception - Radiotherapy Department</i>

MONDAY	3 MAY 2010	(Conference Centre Het Pand)
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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

TUESDAY	4 MAY 2010	(Conference Centre Het Pand)	
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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)	
16.00 – 17.30	<i>Free (Group B) – free visit of vendor booths</i>	

WEDNESDAY	5 MAY 2010	(Conference Centre Het Pand)	
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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***

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