

ESTRO TEACHING COURSE ON BRACHYTHERAPY IN GYNAECOLOGICAL MALIGNANCIES

London, England
28 - 30th August 2008

Course Directors: Christine Haie-Meder (FR), Richard Pötter (AT)

Teaching Staff: Isabelle Barillot (FR), Johannes Dimopoulos (AT), Taran Paulsen Hellebust (NO), Stefan Lang (AT), Peter Petrow (FR), Kari Tanderup (DK)

Guest Faculty: Peter Hoskin (UK)

Local Organisers: M. Bidmead (UK), Peter Hoskin (UK)

ESTRO Coordinator: Guy François (BE)

Thursday 28th August

Introduction to Cervix, Endometrium, Vaginal Cancer

Chair person: C. Haie-Meder

Time	Subject	Presenter
9:00	General Introduction	C. Haie-Meder & R. Pötter
09:15	Introduction, anatomical considerations, role of clinical gynecological examination	P. Hoskin
9:45	3D Image based anatomy: US, CT, MRI	P. Petrow
10:30	<i>Coffee Break</i>	

Thursday 28th August (cont)

Techniques for gynaecological brachytherapy

Chairperson : T. Hellebust

Time	Subject	Presenter
10:50	Fletcher / Manchester	I. Barillot
11:00	Tandem / Ring	R.Pötter
11:10	Moulage technique	C. Haie-Meder
11:20	Standard dose distributions	K. Tanderup
11:40	Techniques for definitive endometrium treatments	R. Pötter
11:55	Post-operative techniques (vaginal cylinder, ovoids, moulds)	I. Barillot / R. Pötter
12:10-12:50 Interstitial techniques		
12:10	Cervix	J. Dimopoulos
12:30	Vagina	C. Haie-Meder
12:50	Open discussion	
13:00 - 14:00	Lunch	

Assessment of GTV, definition of target volumes in cervix cancer

Chairperson: R. Pötter

Time	Subject	Presenter
14:00	Cervix imaging Pathology (CT/MRI sequences requirements)	P. Petrow
14:45	Delineation of organ at risk	I. Barillot
15:15	Coffee Break	
15:45	Introduction to cervix examples (3 MRI, 3 CT)	P. Petrow, J.Dimopoulos
17:00	End of the working day	

Friday 29th August

Definition of target volumes and organs at risk

Chairperson : I. Barillot

Time	Subject	Presenter
9:00 - 9:45	GTV, CTV, PTV at diagnosis and at time of brachytherapy introduction	C Haie-Meder - R. Pötter

Interactive examples: target contouring

Time	Subject	Presenter
9:45 - 12:00	Cervix - small (1MRI, 1 CT) Cervix - large, good response (1 MRI, 1 CT) Cervix - large, bad response (1 MRI, 1 CT)	The group splits up in 4 rooms with 1-2 teachers (physicians) each
	<i>Coffee break on individual basis</i>	
<i>12:00-13:00</i>	<i>Lunch</i>	

Treatment planning (1)

Chairperson: S. Lang

Time	Subject	Presenter
13:00	Basic physics and dose planning principles	T. Hellebust
13:20	Radiobiological models to combine dose from external beam and brachytherapy(HDR, MDR, PDR, LDR)	S. Lang
13:40	Lessons from dose (and dose-rate) constraints for "Target" and Organs at Risk : from 2-D to 3-D	I. Barillot, J. Dimopoulos
14:10	Sectional imaging based treatment planning: applicator reconstruction, image registration and fusion	T. Hellebust, K. Tanderup
<i>15:00</i>	<i>Coffee break</i>	

Treatment planning (1) Cont.

15:30	Dose Volume Histogram Parameters	R. Pötter
16:10	Optimisation techniques for intracavitary and interstitial treatments	. Tanderup
17:00	Treatment planning vaginal cylinder, ovoids, mould	S. Lang / C. Haie-Meder
17:15	Treatment planning endometrium techniques	T. Hellebust / R. Pötter
17:30	<i>End of the working day</i>	

Saturday 30th August

Treatment planning (2)

Chairperson : K. Tanderup

Time	Subject	Presenter
09:00	Treatment planning interstitial techniques	S. Lang / C. Haie-Meder / R. Pötter
9:30	Uncertainties in treatment planning and dose delivery	K. Tanderup
10:10	Practical exercise for dose reporting	S. Lang
10:30	<i>Coffee Break</i>	

Interactive examples: treatment planning

Time	Subject	Presenter
11:00-13:00	Cervix - small (1MRI, 1 CT) Cervix - large, good response (1 MRI, 1 CT) Cervix - large, bad response (1 MRI, 1 CT)	The group splits up in 3 rooms with 2 teachers (1 physicist + 1 physician) each
13:00-14:00	<i>Lunch</i>	

Saturday 30th August (cont)

Outcome of 3-D image based gynaecological Brachytherapy

Chairperson: I. Barillot

Time	Subject	Presenter
14:00	Morbidity: Rectum, Sigmoid, Bladder, Vagina	I. Barillot, J. Dimopoulos
14:30	Disease Control	R. Pötter / C. Haie-Meder
15:10	<i>Coffee Break</i>	

Practical issues for 3D image based gynaecological Brachytherapy

Chairperson: C. Haie-Meder

Time	Subject	Presenter
15:30	Practical implementation - Tips and tricks	R. Pötter / S. Lang
15:50	Ongoing activities in 3-D based GYN brachytherapy	R. Pötter
16:00	Exam	
16:45	Final Remarks and Closure of the Course	C. Haie-Meder / R. Pötter
17:00	<i>End of the course</i>	