



PROGRAMME
PHYSICS FOR MODERN RADIOTHERAPY
 Madrid, Spain - May 04-08, 2014

Sunday 04 May		<i>Morning Chair: B. Heijmen</i> <i>Afternoon Chair: M. Gubanski</i>
	Topic	Speaker
08.30 - 08.45	Welcome address	
08.45 - 09.00	Introduction to the course	All teachers
09.00- 10.00	ENTRANCE EXAM	B. Heijmen
10.00 -10.30	<i>Coffee break</i>	
10.30 - 11.15	Volumes in EBRT	A. Polo
11.15 - 12.00	Imaging for GTV definition I	I. Kunkler
12.00 - 12.45	Imaging for treatment preparation and planning	A. Polo
12.45 - 14.00	<i>Lunch</i>	
14.00 - 14.45	Challenges in dose prescription and plan evaluation	A. Henry
14.45 -16.00	Group 1: Discussions on palliative case	M. Gubanski/S. Molinelli
	Group 2: Discussions on palliative case	A. Henry/T.Depuydt
16.00 - 16.30	<i>Coffee break</i>	
16.30 - 17.15	IMRT - Physics aspects	T. Depuydt
17.15 - 18.00	IMRT - clinical application and impact	M. Gubanski
18.00 - 18.20	Wrap up of palliative HOMEWORK case	M. Gubanski/S. Molinelli
18.20 -19.30	Welcome Drink	
Monday 05 May		<i>Morning Chair: A. Henry</i> <i>Afternoon Chair: I. Kunkler</i>
	Topic	Speaker
08.30 - 09.15	IGRT - tumor set-up correction strategies	B. Heijmen
09.15 - 10.00	IGRT - equipment for in-room imaging	A. Henry
10.00 - 10.30	<i>Coffee break</i>	
10.30 - 11.15	IGRT - set up correction in clinical practice	A. Polo
11.15 - 12.00	PTV margin calculation	B. Heijmen
12.00 - 12.45	Radiobiology in the clinic	A. Henry
12.45 - 14.00	<i>Lunch</i>	
14.00 - 14.45	Stereotactic radiotherapy	M. Gubanski
14.45 - 16.00	Group 1: Discussions on breast case	I. Kunkler B. Heijmen
	Group 2 : Discussions on breast case	A. Polo M. Hoogeman
16.00 - 16.30	<i>Coffee break</i>	
16.30 - 17.15	Rotational therapy	B. Heijmen
17.15 - 17.35	Wrap up of breast HOMEWORK case	I. Kunkler B. Heijmen
20.00	Social Dinner	

Tuesday 06 May	Afternoon Chair: M. Hoogeman	
	Topic	Speaker
09.00 - 14.00	FREE MORNING	
14.00- 14.45	Imaging for GTV definition II	I. Kunkler
14.45 - 16.00	Group 1: Discussions on head and neck case	I. Kunkler B. Heijmen
	Group 2: Discussions on head and neck case	A. Polo M. Hoogeman
16.00 - 16.30	<i>Coffee break</i>	
16.30 - 17.15	Commissioning and QA/QC of equipment and software	M. Hoogeman
17.15 - 17.35	Wrap up of head and neck HOMEWORK case	A. Polo M. Hoogeman
Wednesday 07 May	Morning Chair: S. Molinelli (Clinicians), A. Polo (Physicists)	
	Afternoon Chair: B. Heijmen	
	Topic	Speaker
08.30 - 09.15	Clinicians: Modern Radiation Therapy Equipment	M. Hoogeman
	Physicists: Oncologic Concepts	A. Polo
09.15- 10.00	Clinicians: Basics of radiation physics for clinicians	S. Molinelli
	Physicists: QA for advanced delivery techniques	M. Hoogeman
10.00 - 10.30	<i>Coffee break</i>	
10.30 - 11.15	Clinicians: Physical principles of advanced Radiotherapy	S. Molinelli
	Physicists: Reference Dosimetry	B. Heijmen
11.15- 12.00	Clinicians: Dose calculation principles	T. Depuydt
	Physicists: Modern dose calculation algorithms	M. Hoogeman
12.00 - 12.45	Clinicians: Calculation of dose in the TPS	T. Depuydt
	Physicists: Non-reference dosimetry	B. Heijmen
12.45 - 14.00	<i>Lunch</i>	
14.00 - 14.45	Brachytherapy	A. Henry
14.45 - 16.00	Group 1: Discussions on lung case	A. Henry T. Depuydt
	Group 2: Discussions on lung case	M. Gubanski S. Molinelli
16.00 - 16.30	<i>Coffee break</i>	
16.30 - 17.15	Field junctions: how, when, and alternatives	I. Kunkler B. Heijmen
17.15 - 17.35	Wrap up of lung HOMEWORK case	A. Henry T. Depuydt
Thursday 08 May	Morning Chair: T. Depuydt	
	Topic	Speaker
08.30 - 09.15	Radiation Protection	S. Molinelli
09.15 - 10.00	In-vivo dosimetry	T. Depuydt
10.00 - 10.30	<i>Coffee break</i>	
10.30 - 11.15	Radiotherapy dose and induction of secondary tumors	M. Gubanski
11.15 - 12.15	Exit exam	B. Heijmen
12.15- 12.30	Distribution of certificates of attendance	All teachers