

SCIENTIFIC PROGRAMME

Course Directors: Mischa Hoogeman (NL) & Carmen Rubio (ES) | **Teachers:** Sofie Ceberg (SE), Lone Hoffmann (DK), Valentina Vanoni (IT), Arjen van der Schaaf (NL), Maja Vestmø Maraldo (DK) | **Guest lecturer:** TBC | **Local organisers:** Alina Dumitrache and Mihai Dumitrache

PRE-RECORDED LECTURES

Will be available on MOODLE one month before the course starts.

1	Rationale of IMRT. A clinician's point of view	C. Rubio
2	IMRT optimization: algorithms and cost functions	M. Hoogeman
3	Review of Dose-volume relationships I: H&N	M. Hoogeman
4	Review of Dose-volume relationships II: Pelvis	A. van der Schaaf
5	TPS Commissioning	L. Hoffmann
6	Equipment QA	L. Hoffmann
7	Patient specific QA	A. van der Schaaf
8	Highly conformal techniques in Hodgkin Lymphoma	M. Vestmø Maraldo
9	Modeling adverse effects after 3DCRT and IMRT	A. van der Schaaf
10	Dose calculations in static and rotational IMRT	M. Hoogeman
11	Highly conformal techniques in Gynecology	V. Vanoni

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DAY 1 – Sunday 10 November 2024

Venue: Institute of Radiation Oncology, University of Bucarest

Time (CET)	Lecture	Speaker	Chairs
09:00-09:05	Welcome and introduction to the course	M. Hoogeman	VV / Onsite AvdS / Online
09:05-09:35	Opening, welcome, and presentation of the Institute of Radiation Oncology, University of Bucarest	A./M. Dumitrache	
09:35-09:40	Rationale of IMRT. A clinician's point of view	C. Rubio	
09:40-10:15	Introduction of the participants	M. Hoogeman / C. Rubio	
10:15-10:45	Coffee break		

Time (CET)	Lectures > Group A	Speaker	Chairs	Time (CET)	Demos > Group B	
10:45-11:15	IMRT delivery techniques & potential and limitations of rotational IMRT	S. Ceberg	VV / Onsite AvdS / Online	10:45-11:15	Demo 1	
11:15-11:30	Q&A			11:15-11:45	Demo 2	
11:30-12:00	Automated and knowledge-based treatment planning	M. Hoogeman		11:45-12:15	Demo 3	
12:00-12:15	Q&A	M. Vestmø Maraldo		12:15-12:45	Demo 4	
12:15-12:45	Highly conformal techniques in breast					
12:45-13:00	Q&A					

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Time (CET)	Lecture	Speaker	Chairs
13:00-14:15	Lunch		
14:15-14:45	Image-guidance for IMRT/VMAT	L. Hoffmann	VV / Onsite
14:45-15:00	Q&A		CR / Online
15:00-15:30	Coffee break		

Time (CET)	Demos > Group A		Time (CET)	Lectures > Group B	Speaker	Chair
15:30-16:00	Demo 1		15:30-16:00	IMRT delivery techniques & potential and limitations of rotational IMRT	S. Ceberg	LH / Onsite
16:00-16:30	Demo 2		16:00-16:15	Q&A		
16:30-17:00	Demo 3		16:15-16:45	Automated and knowledge-based treatment planning	M. Hoogeman	
			16:45-17:00	Q&A		
17:00-17:30	Demo 4		17:00-17:30	Highly conformal techniques in breast	M. Vestmø Maraldo	
			17:30-17:45	Q&A		

18:30-21:00	Welcome Drink TBC
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DAY 2 – Monday 11 November 2024

Venue: Ramada Plaza Bucharest, 3 - 5 Poligrafiei Ave Bucharest, 1st District 013704, Bucharest

Time (CET)	Lecture		Speaker	Chairs
09:00-09:30	What did we learn yesterday?		C. Rubio	MVM / Onsite SC / Online
09:30-10:00	Practical IMRT planning and 'biological optimization'		A. van der Schaaf	
10:00-10:15	Q&A			
10:15-10:20	IMRT optimization: algorithms and cost functions		M. Hoogeman	
10:20-10:35	Q&A			
10:35-11:00	<i>Coffee break</i>			
11:00-11:30	Dosimetry issues in IMRT		L. Hoffmann	MVM / Onsite SC / Online
11:30-11:45	Q&A		V. Vanoni	
11:45-12:15	IMRT in Head and Neck			
12:15-12:30	Q&A			
12:30-12:35	Review of Dose-volume relationships I: H&N		M. Hoogeman	
12:35-12:50	Q&A			
12:50-14:00	<i>Lunch</i>			
14:00-14:30	IMRT and SBRT of prostate cancer		C. Rubio	MH / Onsite LH / Online
14:30-14:45	Q&A		A. van der Schaaf	
14:45-14:50	Review of Dose-volume relationships II: Pelvis			
14:50-15:05	Q&A			
15:05-15:30	<i>Coffee break</i>			
Clinical cases Group 1	15:30-16:15	CS 1: Breast M. Vestmø Maraldo, S. Ceberg		
	16:15-17:00	CS 2: Prostate C. Rubio, M. Hoogeman		
	17:00-17:45	CS 3: H&N V. Vanoni, A. van der Schaaf		
Clinical cases Group 2	15:30-16:15	CS 2: Prostate C. Rubio, M. Hoogeman		
	16:15-17:00	CS 3: H&N V. Vanoni, A. van der Schaaf		
	17:00-17:45	CS 1: Breast M. Vestmø Maraldo, S. Ceberg		
Clinical cases Group 3	15:30-16:15	CS 3: H&N V. Vanoni, A. van der Schaaf		
	16:15-17:00	CS 1: Breast M. Vestmø Maraldo, S. Ceberg		
	17:00-17:45	CS 2: Prostate C. Rubio, M. Hoogeman		

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DAY 3 – Tuesday 12 November 2024

Venue: Ramada Plaza Bucharest, 3 - 5 Poligrafiei Ave Bucharest, 1st District 013704, Bucharest

Time (CET)	Lecture	Speaker	Chairs
09:00-09:30	What did we learn yesterday?	V. Vanoni	CR / Onsite MH / Online
09:30-09:35	TPS Commissioning	L. Hoffmann	
09:35-09:40	Equipment QA		
09:40-09:55	Q&A		
09:55-10:00	Patient specific QA	A. van der Schaaf	
10:00-10:15	Q&A		
10:15-10:45	<i>Coffee break</i>		
10:45-11:15	Impact of geometrical uncertainties on IMRT dose distributions	S. Ceberg	CR / Onsite LH / Online
11:15-11:30	Q&A	M. Vestmø Maraldo	
11:30-12:00	Highly conformal techniques in lung cancer		
12:00-12:05	Highly conformal techniques in Hodgkin Lymphoma		
12:05-12:20	Q&A	S. Ceberg	
12:20-12:50	Motion management techniques		
12:50-13:05	Q&A		
13:05-14:15	<i>Lunch</i>		
14:15-14:20	Modeling adverse effects after 3DCRT and IMRT	A. van der Schaaf	CS / Onsite MVM / Online
14:20-14:25	Dose calculations in static and rotational IMRT	M. Hoogeman	
14:25-14:45	Q&A		
14:45-15:15	Highly conformal techniques in CNS tumors	V. Vanoni	
15:15-15:30	Q&A		
15:30-16:00	<i>Coffee break</i>		
16:00-16:30	Trends in IMRT and VMAT	TBC	CS / Onsite MVM / Online
16:30-16:45	Q&A	L. Hoffmann	
16:45-17:15	Re-irradiation: registration, dose accumulation, constraints		
17:15-17:30	Q&A		

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DAY 3 – Wednesday 13 November 2024

Venue: Ramada Plaza Bucharest, 3 - 5 Poligrafiei Ave Bucharest, 1st District 013704, Bucharest

Time (CET)	Lecture	Speaker	Chairs
09:00-09:30	What did we learn yesterday?	M. Vestmø Maraldo	AvdS / Onsite CS / Online
09:30-10:00	Highly conformal techniques in GI tumours	C. Rubio	
10:00-10:15	Q&A		
10:15-10:20	Highly conformal techniques in Gynecology	V. Vanoni	
10:20-10:35	Q&A		
10:35-11:05	Image-guided radiotherapy for IMRT/VMAT	L. Hoffmann	
11:05-11:20	Q&A		
11:20-11:45	<i>Coffee break</i>		
11:45-12:15	Adaptive radiotherapy for IMRT/VMAT	L. Hoffmann	CR / Onsite VV / Online
12:15-12:30	Q&A		
12:30-13:00	What did we learn today?	M. Hoogeman	
13:00-13:05	Closing of the Course		