

### 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

### SCIENTIFIC PROGRAMME

#### DAY 1 – Sunday 10 November 2024

Venue: Terra, ground floor, Ramada Parc Hotel, 3 - 5 Poligrafiei Ave Bucharest, 1st District 013704, Romania

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	<i>Coffee break</i>		
10:45-11:15	IMRT delivery techniques & potential and limitations of rotational IMRT	S. Ceberg	VV / Onsite AvdS / Online
11:15-11:30	Q&A		
11:30-12:00	Automated and knowledge-based treatment planning	M. Hoogeman	
12:00-12:15	Q&A	M. Vestmø Maraldo	
12:15-12:45	Highly conformal techniques in breast		
12:45-13:00	Q&A		
13:00-14:15	<i>Lunch</i>		
14:15-14:45	Dosimetry issues in IMRT	L. Hoffmann	VV / Onsite CR / Online
14:45-15:00	Q&A		
15:00-15:30	<i>Coffee break</i>		
15:30-16:00	<b>Transfer by bus – RAMADA &gt; MEDEUROPA</b>		

## SCIENTIFIC PROGRAMME

### DAY 1 – Sunday 10 November 2024

MEDEUROPA Radiotherapy department, Floor -1 and Floor -2

Time (CET)		Demos		
	Demo 1 LINAC 1 Medical Physicist TBC	Demo 2 LINAC 2 Medical Physicist TBC	Demo 3 LINAC 3 Medical Physicist TBC	Demo 4 CT SIM CATALYST C RAD Medical Physicist TBC
16:10-16:40	GROUP 1	GROUP 2	GROUP 3	GROUP 4
16:40-17:10	GROUP 2	GROUP 3	GROUP 4	GROUP 1
17:10-17:40	GROUP 3	GROUP 4	GROUP 1	GROUP 2
17:40-18:10	GROUP 4	GROUP 1	GROUP 2	GROUP 3

<i>Welcome Drink TBC</i>	
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### SCIENTIFIC PROGRAMME

#### DAY 2 – Monday 11 November 2024

Venue: Terra, ground floor, Ramada Parc Hotel, 3 - 5 Poligrafiei Ave Bucharest, 1st District 013704, Romania

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	Image-guidance for IMRT/VMAT	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	M. Hoogeman	
12:30-12:35	Review of Dose-volume relationships I: H&N		
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		

### SCIENTIFIC PROGRAMME

#### DAY 2 – Monday 11 November 2024

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

Time (CET)	Group	Clinical cases	Room
14:45-15:35	<b>Group 1</b>	CS 1: <b>Breast</b> M. Vestmø Maraldo, S. Ceberg	<b>Terra, ground floor, Ramada Parc Hotel</b>
14:45-15:35	<b>Group 2</b>	CS 2: <b>Prostate</b> C. Rubio, M. Hoogeman	<b>Antarctica, 5<sup>th</sup> floor, Ramada Plaza Hotel</b>
14:45-15:35	<b>Group 3</b>	CS 3: <b>H&amp;N</b> V. Vanoni, A. van der Schaaf	<b>Africa, ground floor, Ramada Plaza Hotel</b>
15:35-16:00	<i>Coffee break</i>		
16:00-16:50	<b>Group 1</b>	CS 2: <b>Prostate</b> C. Rubio, M. Hoogeman	<b>Terra, ground floor, Ramada Parc Hotel</b>
16:00-16:50	<b>Group 2</b>	CS 3: <b>H&amp;N</b> V. Vanoni, A. van der Schaaf	<b>Antarctica, 5<sup>th</sup> floor, Ramada Plaza Hotel</b>
16:00-16:50	<b>Group 3</b>	CS 1: <b>Breast</b> M. Vestmø Maraldo, S. Ceberg	<b>Africa, ground floor, Ramada Plaza Hotel</b>
16:55-17:45	<b>Group 1</b>	CS 3: <b>H&amp;N</b> V. Vanoni, A. van der Schaaf	<b>Terra, ground floor, Ramada Parc Hotel</b>
16:55-17:45	<b>Group 2</b>	CS 1: <b>Breast</b> M. Vestmø Maraldo, S. Ceberg	<b>Antarctica, 5<sup>th</sup> floor, Ramada Plaza Hotel</b>
16:55-17:45	<b>Group 3</b>	CS 2: <b>Prostate</b> C. Rubio, M. Hoogeman	<b>Africa, ground floor, Ramada Plaza Hotel</b>

### SCIENTIFIC PROGRAMME

#### DAY 3 – Tuesday 12 November 2024

Venue: Terra, ground floor, Ramada Parc Hotel, 3 - 5 Poligrafiei Ave Bucharest, 1st District 013704, Romania

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		
12:20-12:50	Motion management techniques	S. Ceberg	
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	MH / 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		

### SCIENTIFIC PROGRAMME

#### DAY 4 – Wednesday 13 November 2024

Venue: Terra, ground floor, Ramada Parc Hotel, 3 - 5 Poligrafiei Ave Bucharest, 1st District 013704, Romania

Time (CET)	Lecture	Speaker	Chairs
09:00-09:30	What did we learn yesterday?	M. Vestmø Maraldo	AvdS / Onsite MH / 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	Adaptive radiotherapy for IMRT/VMAT	L. Hoffmann	
11:05-11:20	Q&A		
11:20-11:45	<i>Coffee break</i>		
11:45-11:50	Review of Dose-volume relationships II: Pelvis	A. van der Schaaf	CR / Onsite VV / Online
11:50-12:05	Q&A		
12:05-12:35	What did we learn today?	M. Hoogeman	
12:35-12:40	Closing of the Course		