

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:** Umberto Ricardi (IT) & Mario Levis (IT)

DAY 1 – Sunday 4 June 2023

Venue: Institute of Radiation Oncology, University of Turin

Time (CET)	Lecture			Speaker
9:00-9:05	Welcome and introduction to the course			M. Hoogeman
9:05-9:15	Opening and welcome to the Institute of Radiation Oncology, University of Turin			M. Levis
9:15-9:45	Rationale of IMRT. A clinician's point of view			C. Rubio
9:45-10:00	Q&A			
10:00-10:30	IMRT delivery techniques & potential and limitations of rotational IMRT			
10:30-10:45	Q&A			S. Ceberg
10:45-11:15	<i>Coffee break and division into groups A & B</i>			
11:15-11:20	Group A to lectures		11:15-11:20	Group B to demos
11:20-11:50	Clinical implementation of modern techniques in CNS tumors	M. Levis	11:20-11:50	Demo 1: Tomotherapy platform: KV-IGRT and tumor tracking R. Parise, RO V. Chiofalo, RO F. Giglioli, MP D. Morei, RTT I. Iarrusso, RTT
11:50-12:20	RTT perspective on IMRT treatment with TomoTherapy	P. Brossa	11:50-12:20	Demo 2: SBRT for lung tumors: respiratory motion management and 4D-CBCT S. Badellino, RO M. Cerrato, RO F. Menegatti, RO T. Morabito, RTT G. Lo Destro, RTT
12:20-12:50	Physicist point of view on highly conformal techniques	V. Richetto	12:20-12:50	Demo 3: Treatment planning: from deformable image registration and contouring to dose calculation A. Gastino, RO E. Cuffini, RO G. De Giorgi, RO E. Gallio, MP
12:50-13:20	Highly conformal techniques in the treatment of pelvic tumors	G.C. Iorio	12:50-13:20	Demo 4: Modern RT in mediastinal lymphomas S. Bartocini, RO C. Cavallin, RO C. Casale, RO C. Fiandra, MP
13:20-14:20	<i>Lunch</i>			
14:20-14:50	Dosimetry issues in IMRT			L. Hoffmann
14:50-15:05	Q&A			
15:05-15:10	Group A to demos		15:05-15:10	Group B to lectures
15:10-15:40	Demo 1: Tomotherapy platform: KV-IGRT and tumor tracking R. Parise, RO V. Chiofalo, RO F. Giglioli, MP D. Morei, RTT I. Iarrusso, RTT		15:10-15:40	Clinical implementation of modern techniques in CNS tumors M. Levis
15:40-16:10	Demo 2: SBRT for lung tumors: respiratory motion management and 4D-CBCT S. Badellino, RO M. Cerrato, RO F. Menegatti, RO T. Morabito, RTT G. Lo Destro, RTT		15:40-16:10	RTT perspective on IMRT treatment with TomoTherapy P. Brossa
16:10-16:40	Demo 3: Treatment planning: from deformable image registration and contouring to dose calculation A. Gastino, RO E. Cuffini, RO G. De Giorgi, RO E. Gallio, MP		16:10-16:40	Physicist point of view on highly conformal techniques V. Richetto
16:40-17:20	Demo 4: Modern RT in mediastinal lymphomas S. Bartocini, RO C. Cavallin, RO C. Casale, RO C. Fiandra, MP		16:40-17:20	Highly conformal techniques in the treatment of pelvic tumors G.C. Iorio
17:20-18:20	<i>Welcome drink</i>			

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DAY 2 – Monday 5 June 2023

Venue: NH TORINO CENTRO, Turin

Time (CET)	Lecture	Speaker	Chair	
9:00-9:30	IMRT optimization: algorithms and cost functions	M. Hoogeman	C. Rubio	
9:30-9:45	Q&A			
9:45-10:15	IMRT in Hodgkin Lymphoma			
10:15-10:30	Q&A			
10:30-11:00	<i>Coffee break</i>			
11:00-11:30	Modeling adverse effects after 3DCRT and IMRT	A. van der Schaaf	L. Hoffmann	
11:30-11:45	Q&A			
11:45-12:15	Review of Dose-volume relationships I: H&N			
12:15-12:30	Q&A	M. Hoogeman		
12:30-13:30	<i>Lunch</i>			
13:30-14:00	IMRT in Head and Neck	V. Vanoni	M. Hoogeman	
14:00-14:15	Q&A			
14:15-14:45	Review of Dose-volume relationships II: Pelvis			
14:45-15:00	Q&A	TBC		
15:00-15:30	<i>Coffee break</i>			
15:30-16:00	IMRT and SBRT of prostate cancer	C. Rubio	M. Hoogeman	
16:00-16:15	Q&A			
16:15-16:45	Impact of geometrical uncertainties on IMRT dose distributions	S. Ceberg		
16:45-17:00	Q&A			
17:00-17:30	What did we learn today?	All		

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DAY 3 – Tuesday 6 June 2023

Venue: NH TORINO CENTRO, Turin

Time (CET)	Lecture	Speaker	Chair
9:00-9:30	Dose calculations in static and rotational IMRT	M. Hoogeman L. Hoffmann TBC	C. Rubio V. Vanoni
9:30-9:45	Q&A		
9:45-10:15	Equipment Q&A		
10:15-10:30	Q&A		
10:30-11:00	Patient specific QA		
11:00-11:15	Q&A		
11:15-11:45	<i>Coffee break</i>		
11:45-12:15	Highly conformal techniques in lung cancer	M. Vestmø Maraldo TBC	V. Vanoni
12:15-12:30	Q&A		
12:30-13:00	Practical IMRT planning and 'biological optimization'		
13:00-13:15	Q&A		
13:15-13:45	What did we learn today?	All	
13:45-14:45	<i>Lunch</i>		
14:45-15:30	Group A: Clinical case discussion 1	Group B: Practical treatment planning session TBC	
	CS 1: Lymphoma - room 1	M. Vestmø Maraldo, S. Ceberg	L. Hoffmann
	CS 2: Prostate - room 2	C. Rubio, M. Hoogeman	
	CS 3: H&N - room 3	V. Vanoni	
15:30-16:15	Group A: Clinical case discussion 2		
	CS 1: Lymphoma - room 1	M. Vestmø Maraldo, S. Ceberg	
	CS 2: Prostate - room 2	C. Rubio, M. Hoogeman	
	CS 3: H&N - room 3	V. Vanoni	
16:15-16:45	<i>Coffee break</i>		
16:45-17:30	Group A: Clinical case discussion 3		
	CS 1: Lymphoma - room 1	M. Vestmø Maraldo, S. Ceberg	
	CS 2: Prostate - room 2	C. Rubio, M. Hoogeman	
	CS 3: H&N - room 3	V. Vanoni	

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DAY 4 – Wednesday 7 June 2023

Venue: NH TORINO CENTRO, Turin

Time (CET)	Lecture	Speaker	Chair
9:00-9:30	IMRT and SBRT of GI tumours	C. Rubio	S. Ceberg
9:30-9:45	Q&A		
9:45-10:15	Image-guidance for IMRT/VMAT	L. Hoffmann	
10:15-10:30	Q&A		
10:30-11:00	Adaptive radiotherapy for IMRT/VMAT	L. Hoffmann	
11:00-11:15	Q&A		
11:15-11:45	<i>Coffee break</i>		
11:45-12:15	IMRT in Gynecology	V. Vanoni	TBC
12:15-12:30	Q&A		
12:30-13:00	Motion management techniques	S. Ceberg	
13:00-13:15	Q&A		
13:15-13:45	What did we learn today?	All	
13:45-14:45	<i>Lunch</i>		
14:45-15:30	Group A: Practical treatment planning session TBC	Group B: Clinical case discussion 1	
	L. Hoffmann	CS 1: Lymphoma - room 1	M. Vestmø Maraldo, S. Ceberg
		CS 2: Prostate - room 2	C. Rubio, M. Hoogeman
		CS 3: H&N - room 3	V. Vanoni
15:30-16:15		Group B: Clinical case discussion 2	
		CS 1: Lymphoma - room 1	M. Vestmø Maraldo, S. Ceberg
		CS 2: Prostate - room 2	C. Rubio, M. Hoogeman
		CS 3: H&N - room 3	V. Vanoni
16:15-16:45	<i>Coffee break</i>		
16:45-17:30		Group B: Clinical case discussion 3	
		CS 1: Lymphoma - room 1	M. Vestmø Maraldo, S. Ceberg
		CS 2: Prostate - room 2	C. Rubio, M. Hoogeman
		CS 3: H&N - room 3	V. Vanoni

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DAY 5 – Thursday 8 June 2023

Venue: NH TORINO CENTRO, Turin

Time (CET)	Lecture	Speaker	Chair
9:00-9:30	Automated and knowledge-based treatment planning	M. Hoogeman	V. Vanoni
9:30-9:45	Q&A		
9:45-10:15	TPS commissioning	L. Hoffmann	M. Vestmø Maraldo
10:15-10:30	Q&A		
10:30-11:00	<i>Coffee break</i>		
11:00-11:30	IMRT in breast	V. Vanoni	M. Vestmø Maraldo
11:30-11:45	Q&A		
11:45-12:15	What did we learn today?	All	
12:15-12:45	Closing of the course	M. Hoogeman	