

SCIENTIFIC PROGRAMME

Course Directors

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Faculty

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Course Pre-Requisite Recorded Lectures

Module 1: Introduction and basic principles of SBRT

- 1.1 What defines SBRT in 2024?
- 1.2 Biology of high dose per fraction SBRT
- 1.3 Margin calculations for image-guided stereotactic treatments
- 1.4 ICRU91 report on prescribing, recording and reporting of stereotactic treatments

Module 2: SBRT for primary prostate cancer

- 2.1 Clinical best practice of SBRT for localized prostate cancer
- 2.2 Uncertainties in prostate SBRT
- 2.3 Margin calculations for prostate SBRT

Module 3: SBRT for early-stage NSCLC

- 3.1 Indication and patient selection of SBRT for early-stage NSCLC
- 3.2 Clinical best practice of SBRT for early-stage NSCLC
- 3.3 Breathing motion assessment in lung SBRT
- 3.4 Breathing motion management for lung SBRT

Module 4: Stereotactic radiotherapy and Radiosurgery for brain metastases

- 4.1 Overview of multidisciplinary management of brain metastases
- 4.2 Clinical best practice of radiosurgery for brain metastases
- 4.3 QA and QA equipment of cranial radiosurgery
- 4.4 End to end accuracy and patient QA of cranial radiosurgery

Module 5: SBRT for oligometastatic disease

- 5.1 Definition and characterization of oligometastatic disease
- 5.2 Efficacy of SBRT as locally ablative Tx modality for oligometastatic disease
- 5.3 Errors and safety
- 5.4 EQ2Gy dose calculation in clinical practice

Module 6: SBRT for vertebral metastases

- 6.1 Overview multidisciplinary management of vertebral metastases
- 6.2 Step by Step practice of SBRT for vertebral metastases

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Module 7: SBRT for upper gastrointestinal tumours

- 7.1 Overview of multidisciplinary management of primary liver cancer (MH)
- 7.2 Overview of multidisciplinary management of pancreatic cancer (MH)
- 7.3 Treatment planning in liver and pancreatic cancer
- 7.4 Motion uncertainties in the treatment of liver and pancreatic cancer

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Day 1 Time	Topic	Lecturer
13:00 - 13:25	Summary of Modules 1.1 and 1.2 & Updates QA Session	M Guckenberger
13:25 - 13:50	Summary of Modules 1.3 and 1.4 & Updates QA Session	D Verellen
13:50 - 14:20	Evidence-based indications for SBRT in current international guidelines QA Session	M Guckenberger
14:20 - 14:45	Technology for stereotactic treatments QA Session	
14:45 - 15:10	Most recent recommendations on QA and treatment planning QA Session	D Verellen
15:10 - 15:40	<i>Coffee Break</i>	
15:40 - 16:20	Clinical Journal Club: Top 3 ground- breaking publications from 2024 QA Session	M Guckenberger M Hawkins
16:20 - 17:00	Physics Journal Club: Top 3 ground- breaking publications from 2023 QA Session	D Verellen M Hoogeman
17:00 - 17:10	Hot Topic: Stereotactic radiotherapy for macular degeneration	
17:10 - 17:20	Hot Topic:	
17:20 - 17:30	Hot Topic:	
17:30 - 17:50	QA Session about hot topics	All

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Day 2		
Time	Topic	Lecturer
09:00 - 09:25	Summary of Module 2.1 & Updates QA Session	P Ost
09:25 - 09:50	Practical case studies in SBRT for prostate cancer QA Session	P Ost
09:50 - 10:15	Summary of Modules 2.2 and 2.3 & Updates QA Session	S Tanadini-Lang M Hoogeman
10:15 - 10:45	Online adaptive SBRT QA Session	
10:45 - 11:15	<i>Coffee Break</i>	
10:45 - 11:10	Summary of Module 3.1 and 3.2 & Updates QA Session	S Senan
11:40 - 12:05	Practical case studies in SBRT for NSCLC QA Session	S Senan
12:05 - 12:30	Summary of Module 3.3 and 3.4 & Updates QA Session	M Hoogeman
12:30 - 13:00	Single-isocenter SBRT for multiple lesions and other new developments in lung SBRT QA Session	M Hoogeman
13:00 - 14:00	<i>Lunch</i>	
14:00 - 14:25	Summary of Module 4.1 and 4.2 & Updates QA Session	K Dieckmann
14:25 - 14:55	Practical case studies in SRS of brain metastases QA Session	K Dieckmann
14:55 - 15:20	Summary of Module 4.3 and 4.4 & Updates QA Session	D Verellen
15:20 - 15:50	Surface guidance in SRS and SBRT QA Session	S Barrett
15:50 - 16:20	<i>Coffee Break</i>	
16:20 - 16:45	Summary of Module 5.1 and 5.2 & Updates QA Session	M Guckenberger
16:45 - 17:15	Practical case studies in SBRT for oligometastatic disease QA Session	M Guckenberger

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Day 3		
Time	Topic	Lecturer
08:30 - 08:55	Summary of Module 5.3 and 5.4 & Updates QA Session	D Verellen
08:55 - 09:25	Practical case studies in reirradiation using EQD2 QA Session	S Tanadini-Lang
09:25 - 09:50	Summary of Modules 6.1 and 6.2 & Updates QA Session	M Guckenberger
09:50 - 10:20	Practical case studies in SBRT for vertebral & non-spine bone metastases QA Session	M Guckenberger
		S Senan
10:20 - 10:50	<i>Coffee Break</i>	
10:50 - 11:15	Summary of Module 7.1 and 7.2 & Updates QA Session	M Hawkins
11:15 - 11:40	Practical case studies in SBRT for primary liver cancer QA Session	M Hawkins
11:40 - 12:05	Practical case studies in SBRT for pancreatic cancer QA Session	M Hawkins
12:05 - 13:05	<i>Lunch</i>	
13:05 - 13:30	Summary of Module 7.3 and 7.4 & Updates QA Session	M Hawkins
13:30 - 13:55	In-room MR guided SBRT QA Session	S Tanadini-Lang
13:55 - 14:25	<i>Coffee Break</i>	
14:25 - 15:25	Discipline-specific split-up Sessions: - Clinicians - Medical Physics - RTT	ALL
15:25 - 15:40	Wrap-up and final Q & A	M Guckenberger
		D Verellen