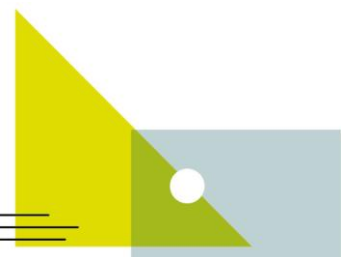


Implementation and Practice of Image-guided Stereotactic Body Radiotherapy

2022 online edition

Course concept & structure

24 May – 28 June 2022



Module 1: Clinical, technological and biological basis of SBRT



Pre-recorded lectures

- Recorded Session 1.1: What defines SBRT ? - 20 min
- Recorded Session 1.2: Biology of high-dose per fraction- 20 min
- Recorded Session 1.3: Margin calculations for stereotactic treatment - 20 min
- Recorded Session 1.4: ICRU91 on prescribing, recording and reporting of stereotactic treatments - 20 min

Tuesday 24 May 2022, 17:00 – 19:25 CET



Theoretical lesson

- Executive summary of recorded lectures
- Up-to-date lecture Clinical 1: Evidence-based indications for SBRT in current international guidelines
- Up-to-date lecture Clinical 2: Limitations of SBRT: toxicity of SBRT alone and in combination with systemic therapy
- Up-to-date lecture Physics 1: Technology for stereotactic treatments
- Up-to-date lecture Physics 2: Most recent recommendations on QA and treatment planning



Thursday 26 May 2022, 17:00 – 18:15 CET

- Clinical journal club: ground-breaking publications from 2022
- Physics journal club: ground-breaking publications from 2022

Practical lesson

Module 2: SBRT for early stage NSCLC



Pre-recorded lectures

- Recorded Session 2.1: Indication and patient selection of SBRT for early stage NSCLC - 20 min
- Recorded Session 2.2: Clinical best-practice of SBRT for early stage NSCLC- 20 min
- Recorded Session 2.3: Motion and motion detection in lung SBRT- 20 min
- Recorded Session 2.4: Motion management for lung SBRT - 20 min

Tuesday 31 May 2022, 17:00 – 19:25 CET



Theoretical lesson

- Executive summary of recorded lectures
- Up-to-date lecture Clinical 1: SBRT for centrally located NSCLC
- Up-to-date lecture Clinical 2: Other high-risk situations in SBRT for early stage NSCLC
- Up-to-date lecture Physics 1: Topic TBD
- Up-to-date lecture Physics 2: Topic TBD



Thursday 2 June 2022, 17:00 – 18:15 CET

- Basic case presentation A-Z
- Challenging case presentation A-Z

Practical lesson

Module 3: SBRT for primary prostate cancer



Pre-recorded lectures

- Recorded Session 3.1: Clinical best-practice of SBRT for prostate cancer - 20 min
- Recorded Session 3.2: Uncertainties in prostate SBRT - 20 min
- Recorded Session 3.3: Margin calculations for prostate SBRT - 20 min

Tuesday 7 June 2022, 17:00 – 19:25 CET



Theoretical lesson

- Executive summary of recorded lectures
- Up-to-date lecture Clinical 1: Topic TBD
- Up-to-date lecture Clinical 2: Topic TBD
- Up-to-date lecture Physics 1: Topic TBD
- Up-to-date lecture Physics 2: Topic TBD



Practical lesson

Thursday 9 June 2022, 17:00 – 18:15 CET

- Basic case presentation A-Z
- Challenging case presentation A-Z

Module 4: SRS for brain metastases



Pre-recorded lectures

- Recorded Session 4.1: Overview of multidisciplinary management of brain metastases - 20 min
- Recorded Session 4.2: Clinical best practice of SRS for brain metastases - 20 min
- Recorded Session 4.3: : QA and QA equipment - 20 min
- Recorded Session 4.4: End-to-end accuracy and patient QA for brainmets (including MR-CT match)

Tuesday 14 June 2022, 17:00 – 19:25 CET



Theoretical lesson

- Executive summary of recorded lectures
- Up-to-date lecture Clinical 1: Topic TBD
- Up-to-date lecture Clinical 2: Topic TBD
- Up-to-date lecture Physics 1: Topic TBD
- Up-to-date lecture Physics 2: Topic TBD



Practical lesson

Thursday 16 June 2022, 17:00 – 18:15 CET

- Basic case presentation A-Z
- Challenging case presentation A-Z

Module 5: Up-to-date week



Pre-recorded lectures

SBRT for OMD

- Recorded Session 5.1: Definition and characterization of OMD - 20 min
- Recorded Session 5.2: Efficacy of SBRT as locally ablative Tx modality for OMD - 20 min
- Recorded lecture 5.3: Errors and safety - 20 min
- Recorded lecture 5.4: EQ2Gy in clinical practice - 20 min



Pre-recorded lectures

Spinal SBRT and SBRT for non-spine bone metastases

- Recorded Session 5.5: Overview multidisciplinary management of vertebral metastases - 20 min
- Recorded Session 5.6: Step-by-Step practice of SBRT for vertebral metastases - 20 min
- Recorded lecture 5.7: Prescription and dose calculation in SBRT - 20 min
- Recorded lecture 5.8: Historical overview on Stereotaxy - 20 min



Pre-recorded lectures

SBRT for primary liver cancer and pancreatic cancer

- Recorded Session 5.9: Overview of multidisciplinary management of primary liver cancer - 20 min
- Recorded Session 5.10: Overview of multidisciplinary management of primary pancreatic cancer - 20 min
- Recorded Session 5.11: Step-by-Step clinical practice of SBRT for liver and pancreatic cancer - 20 min
- Recorded Session 5.12: Treatment planning in liver and pancreatic cancer - 20 min
- Recorded Session 5.13: Motion uncertainties in the treatment of liver and pancreatic cancer



Theoretical lesson

Tuesday 21 June 2022, 17:00 – 19:25 CET

- Clinical case presentation
- Up-to-date lecture SBRT for OMD – clinical
- Up-to-date lecture SBRT for OMD - physics
- Physics case presentation
- Up-to-date lecture Spine SBRT and SBRT for non spine bone metastases – clinical
- Up-to-date lecture Spine SBRT and SBRT for non spine bone metastases - physics

Thursday 23 June 2022 17:00 – 18:15 CET



Practical lesson

Clinical split-up

- Case presentation – Clinical
- Up-to-date lecture - Clinical 1
- Up-to-date lecture - Clinical 2

Physics split-up

- Introduction to the topic
- Questions and open discussion

RTT split-up

- Introduction to the topic
- Questions and open discussion

Module 6: Emerging indications and technologies



**Theoretical
lesson**

Tuesday 28 June 2022, 17:00 – 19:05 CET

- HOT clinical topic: neoadjuvant and definitive SBRT for breast cancer
- HOT clinical topic: paediatric SBRT
- HOT physics topic: physics aspects related to tachycardia treatments
- HOT physics topic: FLASH radiotherapy



Meet the faculty

FACULTY

Course directors

- Matthias Guckenberger, *Radiation Oncologist, University Hospital Zurich, Zurich (CH)*
- Dirk Verellen, *Medical Physicist, Iridium Kankernetwerk, University of Antwerp, Antwerp (BE)*

Teachers

- Karin Dieckmann, *Radiation Oncologist, Medical University of Vienna, Vienna (AT)*
- Maria Hawkins, *Clinical Oncologist, University College London, London (UK)*
- Mischa S. Hoogeman, *Medical Physicist, Erasmus Medical Centre-Daniel den Hoed Cancer Centre, Rotterdam (NL)*
- Coen Hurkmans, *Medical Physicist, Catharina Hospital, Eindhoven (NL)*
- Stephanie Lang, *Medical Physicist, University Hospital Zurich, Zurich (CH)*
- Piet Ost, *Radiation Oncologist, Ghent University, Ghent (BE)*
- Suresh Senan, *Radiation Oncologist, VU University Medical Centre, Amsterdam (NL)*

GUEST SPEAKERS:

- Sarah Barrett, *Assistant Professor Radiation Therapy, Trinity College Dublin (IE)*
- Alex De Caluwé, *Radiation Oncologist, Institut Jules Bordet (BE)*
- Stefanie Ehrbar, *Medical Physicist, University Hospital Zürich (CH)*
- Stephanie Kroeze, *Radiation Oncologist, University Hospital Zurich (CH)*
- Arjun Sahgal, *Radiation Oncologist, Sunnybrook Health Sciences Centre (CA)*
- Alison Tree, *Clinical Oncologist, Royal Marsden Hospital Trust & Institute of Cancer Research, London (UK)*