

Physics Pre-meeting course Real-world implementation of adaptive radiotherapy in clinical practice ESTRO 2022, 6-10 May 2022, Copenhagen, Denmark

Friday, 6 May 2022, from 8:30 to 17:00

Course directors:

Claus Behrens PhD, Department of Oncology, Copenhagen University Hospital - Herlev and Gentofte (DK)

Wouter van Elmpt PhD, Department of Radiation Oncology (MAASTRO), Maastricht (NL)

Faculty:

- Lina Åström, Medical Physicist / PhD-student, Dept of Oncology, Copenhagen University Hospital – Herlev and Gentofte, Copenhagen / Dept of Heath Technology, Technical University of Denmark, Roskilde (DK)
- Jenny Bertholet, Medical Physicist, Division of Medical Radiation Physics and Department of Radiation Oncology, Inselspital, Bern University Hospital and University of Bern (CH)
- Martin Buschmann, Medical Physicist, Department of Radiation Oncology, Medical University of Vienna/Vienna General Hospital (AT)
- Cynthia Eccles, Consultant Research Radiographer, Head of Radiotherapy Research and Development at The Christie NHS Foundation Trust (UK)
- Dr. sc. Nat Stefanie Ehrbar, Medical Physicist, Department of Radiation Oncology, University Hospital Zürich (CH)
- Lauren E. Henke, Radiation Oncologist, Assistant Professor and Chief of Adaptive Radiation Therapy, Washington University in St. Louis School of Medicine (US)
- Paul Keall, Medical Physicist, Image X Institute, University of Sydney (AU)
- Vicki Taasti PhD, Maastro Clinic (NL)
- Jan-Jakob Sonke, Medical Physicist, Department of Radiation Oncology, the Netherlands Cancer Institute (NL)
- Stephanie Tanadini-Lang, Medical Physicist, Department of Radiation Oncology, University Hospital Zurich (CH)
- Daniela Thorwarth, Medical Physicist, Section for Biomedical Physics, Department of Radiation Oncology, University of Tübingen (GE)
- Marcel van Herk, Radiotherapy Physicist, The Christie, Manchester (UK)

Programme

Time slot	Title	Teacher
08:30	Pre-meeting starts	
08:30-08.50	Introduction to Adaptive RT - Current status	J. Bertholet (CH)
09.00-09.20	Introduction to Adaptive RT - Why do we need this? The clinical perspective	L. E. Henke (US)
09.30-9.50	Introduction to Adaptive RT - RTT perspective for education and implementation	C. Eccles (UK)
10.00-10.20	Offline adaptive radiotherapy	J. Sonke (NL)
10:30-11:00	COFFEE BREAK	
11.00-11.20	Real-time adaptive RT using tumor tracking	P. Keall (AU)
11.30-11.50	Proton therapy based adaptive workflow	V. Taasti (NL)
12.00-12.20	CBCT based on-line adaptive workflow for photons: The Ethos experience	L. Åström (DK)
12:30-14:00	LUNCH	
14.00-14.20	Adaptive MR-guided radiotherapy using the 1.5 T MR-Linac Unity	D. Thorwarth (DE)
14.30-14.50	Plan-of-the-Day based adaptive RT: Cervix / Bladder	M. Buschmann (AT)
15.00-15.20	MR-guided adaptive workflow (ViewRay)	S. Tanadini-Lang (CH)
15:30-16:00	COFFEE BREAK	
16.00-16.20	What infrastructure and how to QA for adaptive RT	S. Ehrbar (CH)
16.30-16.50	Looking into the future: how will adaptive RT evolve over the upcoming 5 years?	M. Van Herk (UK)
17:00	Close of pre-meeting	