

Physics Pre-meeting course:
Practical implementation of complex systems and processes into the clinic

ESTRO 2023, 12-16 May 2023, Vienna, Austria

Friday, 12 May 2023 from 09:00-17:00

Course directors:

- Tom Depuydt, Medical Physicist, UZ Leuven (BE)
- David Sjöström, Medical Physicist, Herlev and Gentofte Hospital (DK)
- Catharine Clark, Medical Physicist, University College London Hospital and National Physical Laboratory (UK)

Faculty:

- Marjan Admiraal, Medical Physicist, Amsterdam University Medical Center (NL)
- Antony Carver, Radiotherapy Physicist, University Hospitals Birmingham (UK)
- Karin Goudschaal, Researcher RTT specialized in IGRT&ART, Amsterdam University Medical Center (NL)
- Christian Rønn Hansen, Medical Physicist, Odense University Hospital (DK)
- Stephen Kry, Medical Physicist, MD Anderson Cancer Center (US)
- Wolfgang Lechner, Medical Physicist, Department of Radiation Oncology / Medical University of Vienna (AT)
- Ana Lourenco, Proton therapy dosimetrist, National Physical Laboratory (UK)
- Wilco Schillemans, Medical Physicist, Erasmus MC (NL)
- Patrik Sibolt, Medical Physicist, Herlev & Gentofte Hospital (DK)

Draft Programme

Time slot	Title	Teacher	Chair
09.00 - 09.25	Introduction to the course	D. Sjöström (DK)	D. Sjöström
09.25 - 09.50	Risk analysis of a new technology	M. Admiraal (NL)	
09.50 - 10.15	Implementation of AI in RT in the real world	C. Ronn Hansen (DK)	
10.15 - 10.30	Discussion		

10.30 - 11.00	Coffee break		
11.00 - 11.25	Automating processes and scripting	W. Schillemans (NL)	T. Depuydt
11.25 - 11.50	Practical implementation of online adaptive radiotherapy with a multidisciplinary team	K. Goudschaal (NL)	
11.50 - 12.15	Databases to assess effectiveness of new technologies	A. Carver (UK)	
12.15 - 12.30	Discussion		
12.30 - 14.00	Lunch break		
14.00 - 14.25	Uncertainty in clinical reality	W. Lechner (AT)	C. Clark
14.25 - 14.50	Patient-specific quality assurance of online adaptive radiotherapy	P. Sibolt (DK)	
14.50 - 15.15	The role of primary standard laboratories when implementing novel technologies	A. Lourenco (UK)	
15.15 - 15.30	Discussion		
15.30 -16.00	Coffee break		
16.00 - 16.30	External validation for novel technologies	S. Kry (US)	T. Depuydt
16.30 -16.40	Discussion		
16.40 - 17.00	Summary and closing remarks	T. Depuydt (BE)	
17.00	Close		