

ESTRO 2024 – Interdisciplinary Pre-meeting course

Re-irradiation – a one-day bootcamp

Friday, 3 May 2024, from 08:30 to 17:00

Course directors:

- Ane Appelt, Medical Physicist, University of Leeds & St James’s University Hospital (UK)
- Eliana Maria Vasquez Osorio, Senior Researcher, The University of Manchester (UK)
- Heidi S. Rønne, Medical Physicist, Danish Center for Particle Therapy, Aarhus University Hospital (DK)

Faculty:

- Nicolaus Andratschke, Radiation oncologist, University Hospital Zurich, (CH)
- Søren Bentzen, Radiobiologist, University of Maryland School of Medicine, Baltimore (US)
- Madalyne Day, Radiation Therapy Technologist (RTT), University Hospital Zurich (CH)
- Anna Embring, Radiation Oncologist, Karolinska University Hospital (SE)
- Dorota Gabryś, Radiation Oncologist, Maria Skłodowska-Curie National Research Institute of Oncology, Gliwice Branch (PL)
- Marianne Guren, Clinical Oncologist, Oslo University Hospital (NO)
- Peter Hoskin, Clinical Oncologist, Mount Vernon Cancer Centre, London; The Christie, Manchester (UK)
- Mariangela Massaccesi, Radiation Oncologist, Gemelli Advanced Radiation Therapy; Fondazione Policlinico Universitario Agostino Gemelli IRCCS (IT)
- Charles Mayo, Medical Physicist, University of Michigan (US)
- Louise Murray, Clinical Oncologist, University of Leeds and Leeds Teaching Hospitals (UK)
- Jonas Willmann, Radiation Oncologist, University Hospital Zurich (CH)

Programme

Time slot	Title	Teacher
08:30 - 08.40	Welcome	Course Directors
08.40 - 10.30	<i>1st morning session: General - patterns of care, workflow, etc</i>	
08:40 - 09.05	The international re-irradiation landscape - definition & utilisation	N. Andratschke (CH)
09.05 - 09.30	Selection of patients for re-irradiation	P. Hoskin (UK)

09.30 - 09.55	Choice of RT technique for re-irradiation	M. Massaccesi (IT)	
09.55 - 10.20	The multidisciplinary radiotherapy workflow for reRT patients	M. Day (CH)	
10:30 - 11:00	<i>COFFEE BREAK</i>		
11.00 - 12.30	2nd morning session: Radiobiology & normal tissue		
11.00 - 11.30	Radiobiology - repair and recovery	D. Gabrys (PL)	
11.30 - 12.00	radiobiology - equivalent dose measures & modeling normal tissue dose-response for reRT	S. Bentzen (US)	
12.00 - 12.30	What do we know about dose constraints for clinical use?	P. Hoskin (UK)	
12:30 - 14:00	<i>LUNCH BREAK</i>		
14.00 - 15.30	1st afternoon session: breakout - physics/technical vs clinical		
	Breakout session: Physics	The role of the medical physicist in clinical re-irradiation	C. Mayo (US)
		Image registration and dose mapping	E. Vasquez Osorio (UK)
		EQD2 dose accumulation & planning	A. Appelt (UK)
		Protons in reirradiation	H. S. Rønde (DK)
	Breakout session: Clinical/tumour site focus	Head & Neck	A. Embring (SE)
		Thoracic / lung	N. Andratschke (CH)
		Rectum / anal	M. G. Guren (NO)
Brain		L. Murray (UK)	
15:30 - 16:00	<i>COFFEE BREAK</i>		
16.00 - 17.00	2nd afternoon session: Future directions		
16.00 - 16.20	Functional image guided reRT	TBC	
16.20 - 16.40	Data sharing for re-irradiation	C. Mayo (UK)	
16.40 - 17.00	Ongoing and future trials & registries	J. Willmann (CH)	