



**ESTRO**  
2022

**PROGRAMME OVERVIEW**

# Learning from Every Patient

ANNUAL  
ESTRO  
CONGRESS

**6-10 May 2022**

Onsite in Copenhagen & Online

**#ESTRO2022**  
[www.estro.org](http://www.estro.org)

**FRIDAY 6 MAY 2022**

	Room D4	Auditorium 12	Room D3	Room D1	Auditorium 11	Room D2	Room D5	Auditorium 15	Mini-Oral Theatre 1	Mini-Oral Theatre 2	Poster Station 1	Poster Station 2	Room 20
08:30-17:00	<b>PHYSICS PRE-MEETING COURSE</b>	<b>RTT PRE-MEETING COURSE</b>			<b>RADIOBIOLOGY PRE-MEETING COURSE</b>		<b>BRACHYTHERAPY PRE-MEETING COURSE</b>	<b>CLINICAL PRE-MEETING COURSE</b>					
	Real-world implementation of adaptive radiotherapy in clinical practice <i>Course Directors: Wouter van Elmpt (NL) Claus Behrens (DK)</i>	Time to adapt: Future roles of RTT <i>Course directors: Yat Man Tsang (UK) Phillip Scherer (AT)</i>			Innovative models to assess efficacy and toxicity treatment combinations with radiotherapy <i>Course directors: Rob Coppes (NL) François Paris (FR)</i>		Multidisciplinary approach to high-risk skin cancer with special focus on brachytherapy <i>Course directors: Agata Rembielak (UK) Luca Tagliaferri (IT)</i>	Integration of radiotherapy into targeted or immunotherapy <i>Course directors: Tim Illidge (UK) Eric Deutsch (FR)</i>					<b>COUNTOURING WORKSHOP</b> 10:30-12:30 Liver Lymph Node SBRT
17:15-17:45			<b>OPENING CEREMONY</b> Lectures Lifetime achievement awards Opening in Exhibition Area followed by Networking Evening										<b>COUNTOURING WORKSHOP</b>
													16:00-18:00 Lung Reirradiation

# SATURDAY 7 MAY 2022

	Room D4	Auditorium 12	Room D3	Room D1	Auditorium 11	Room D2	Room D5	Auditorium 15	Mini-Oral Theatre 1	Mini-Oral Theatre 2	Poster Station 1	Poster Station 2	Room 20
08:00-08:40	<b>TEACHING LECTURE</b>	<b>TEACHING LECTURE</b>	<b>TEACHING LECTURE</b>	<b>TEACHING LECTURE</b>	<b>TEACHING LECTURE</b>	<b>TEACHING LECTURE</b>	<b>TEACHING LECTURE</b>	<b>TEACHING LECTURE</b>					
	Developing a national infrastructure for proton beam therapy trials	The radiobiological clock in 2022	Stereotactic radiotherapy in lung: Recent advances	Palliative radiotherapy: Established standards and emerging concepts	Improving radiotherapy outcomes for vaginal tumours using a joint target concept	Commissioning and quality assurance of commercial in vivo dosimetry systems	Monte Carlo dose calculation in modern day radiotherapy	Patient education in 2022: Does the patient know better?					
08:45-10:00	<b>SYMPOSIUM</b>	<b>DEBATE</b>	<b>SYMPOSIUM</b>	<b>SYMPOSIUM</b>	<b>DEBATE</b>	<b>JOINT SYMPOSIUM ESTRO-EFOMP</b>	<b>PROFFERED PAPERS</b>	<b>SYMPOSIUM</b>	<b>MINI-ORALS 1</b>	<b>MINI-ORALS 2</b>	<b>POSTER DISCUSSION 1</b>	<b>POSTER DISCUSSION 2</b>	
	Education in radiation oncology: Advances and opportunities	This house believes that FLASH radiotherapy is a more promising avenue for the future of radiation oncology than particle radiotherapy	New developments in the treatment of oesophageal cancer	All the hassle with hematopoietic systems	Soft tissue sarcoma: Brachytherapy and/or EBRT or IORT: Current evidence	CT innovations: DECT and beyond	Intra-fraction and real-time motion management	Learning about the patients we do not see: A focus on inequities in radiotherapy access and provision	09:00-10:00 Dosimetry	09:00-10:00 Health economics and healthcare systems	09:00-10:00 Image processing & analysis	09:00-10:00 Palliation, mixed sites	
10:00-10:30	COFFEE BREAK												
10:30-11:30	<b>PROFFERED PAPERS</b>	<b>PROFFERED PAPERS</b>	<b>PROFFERED PAPERS</b>	<b>PROFFERED PAPERS</b>	<b>PROFFERED PAPERS</b>	<b>PROFFERED PAPERS</b>	<b>PROFFERED PAPERS</b>	<b>PROFFERED PAPERS</b>	<b>MINI-ORALS 3</b>	<b>MINI-ORALS 4</b>	<b>POSTER DISCUSSION 3</b>	<b>POSTER DISCUSSION 4</b>	
	Proton beam therapy	Normal tissue radiobiology	Late-breaking	upper GI	Physics	Dosimetry	Photon radiotherapy planning	Improving patient experience and quality standards	Radiobiology	Sarcoma, skin cancer, malignant melanoma	Functional imaging & modelling	Paediatrics, haematology	
11:40-12:40			<b>PRESIDENTIAL SYMPOSIUM</b>										
			Learning from every patient										
12:45-14:15	LUNCH AND INDUSTRY SYMPOSIA				<b>GEC-ESTRO ASSEMBLY</b>								
					13:00-14:00								
14:15-15:30	<b>JOINT SYMPOSIUM ESTRO-ASTRO</b>	<b>SYMPOSIUM</b>	<b>SYMPOSIUM</b>	<b>SYMPOSIUM</b>	<b>SYMPOSIUM</b>	<b>JOINT SYMPOSIUM ESTRO-AAPM</b>	<b>SYMPOSIUM</b>	<b>SYMPOSIUM</b>	<b>MINI-ORALS 5</b>	<b>MINI-ORALS 6</b>	<b>POSTER DISCUSSION 5</b>	<b>POSTER DISCUSSION 6</b>	<b>COUNTOURING WORKSHOP</b>
	Is integration with immunotherapy the new challenge for radiation oncologists?	Emerging radiobiological modifiers	Large-scale collection of PROs for clinical use during follow-up	Lymphopenia	Preserving brachytherapy skills for the future	50 shades of FLASH: From experimental beam lines to the clinic	Automatic planning: Towards a sustainable future	What's new in RTT advanced practice?	14:15-15:15 Image acquisition & processing	14:15-15:15 GI	14:15-15:15 Intra-fraction & real-time adaptation	14:15-15:15 CNS	14:30-16:30 Prostate SBRT
15:30-16:00	COFFEE BREAK												
16:00-16:20			<b>E. VAN DER SCHUEREN AWARD</b>										
16:25-16:50			<b>JENS OVERGAARD LEGACY AWARD</b>										
16:55-17:55	<b>PROFFERED PAPERS</b>	<b>PROFFERED PAPERS</b>	<b>PROFFERED PAPERS</b>	<b>MULTIDISCIPLINARY TUMOUR BOARD</b>	<b>PROFFERED PAPERS</b>	<b>PROFFERED PAPERS</b>	<b>PROFFERED PAPERS</b>	<b>PROFFERED PAPERS</b>	<b>MINI-ORALS 7</b>	<b>MINI-ORALS 8</b>	<b>POSTER DISCUSSION 7</b>	<b>POSTER DISCUSSION 8</b>	
	Personalised radiation therapy	Immuno-radiobiology	Lower GI	Brain	Physics, gynaecology, prostate	FLASH	Applications of photon treatment planning	Haematology	Brachytherapy	Patient care, preparation, immobilisation & IGRT verification protocols	Imaging & AI techniques	Advances in radiotherapy planning & techniques	

# SUNDAY 8 MAY 2022

	Room D4	Auditorium 12	Room D3	Room D1	Auditorium 11	Room D2	Room D5	Auditorium 15	Mini-Oral Theatre 1	Mini-Oral Theatre 2	Poster Station 1	Poster Station 2	Room 20
08:00-08:40	TEACHING LECTURE	TEACHING LECTURE	TEACHING LECTURE	TEACHING LECTURE	TEACHING LECTURE	TEACHING LECTURE	TEACHING LECTURE	TEACHING LECTURE					COUNTOURING WORKSHOP 08:00-10:00 Small cell lung cancer
	MR-guided radiotherapy: How to acquire and interpret imaging data for online adaption	Mitochondria in tumour and normal tissue radiobiology	Breast cancer-related lymphoedema	Fractionation and biology in bladder cancer	Artificial intelligence and brachytherapy: Current reality and perspectives	Robust treatment planning in particle therapy: Clinical implementation and potential pitfalls	Essentials for risk management of a radiation oncology department	Less is more: The increasing use of hypofractionation in routine clinical practice and its impact on patient care					
08:45-10:00	SYMPOSIUM	SYMPOSIUM	SYMPOSIUM	SYMPOSIUM	SYMPOSIUM	SYMPOSIUM	PITCH SESSION	SYMPOSIUM	MINI-ORALS 9	MINI-ORALS 10	POSTER DISCUSSION 9	POSTER DISCUSSION 10	
	Radiation-induced cardiac and vascular toxicity	Beyond the nucleus: The role of mitochondria in radiation response	Radiotherapy in head and neck advanced disease in surgery with reconstruction area	2020 - Losing ground for radiotherapy?	The use of imaging in prostate brachytherapy	Image guidance in particle therapy: Status and outlook	Every radiotherapy physicist should know about AI/ML... but how much?	Personalised radiotherapy: Improving standards of care with personalised treatments	09:00-10:00 Personalised radiation therapy	09:00-10:00 Lung	09:00-10:00 Inter-fraction motion & adaptive radiotherapy	09:00-10:00 Urology 1	
10:00-10:30	COFFEE BREAK												
10:30-11:30	PROFFERED PAPERS	PROFFERED PAPERS	PROFFERED PAPERS	PROFFERED PAPERS	PROFFERED PAPERS	PROFFERED PAPERS	PROFFERED PAPERS	PROFFERED PAPERS	MINI-ORALS 11	MINI-ORALS 12	POSTER DISCUSSION 11	POSTER DISCUSSION 12	
	MR-guided radiotherapy	Tumour radiobiology	Head & neck	Lung	Gynaecology	Optimisation & algorithms in proton and ion radiotherapy	Radiomics & modelling	AI & advanced practice	Intra-fraction motion management	Urology	Radiobiology	GI	
11:40-12:40			HIGHLIGHTS OF PROFFERED PAPERS				MULTIDISCIPLINARY TUMOUR BOARD						
			Best Papers				Oesophageal Cancer						
12:45-14:15	LUNCH AND INDUSTRY SYMPOSIA					PHYSICS ASSEMBLY & NETWORKING							
						13:00-14:00							
14:15-15:30	SYMPOSIUM	SYMPOSIUM	JOINT SYMPOSIUM ESTRO-EORTC	JOINT SYMPOSIUM ESTRO-IASLC	SYMPOSIUM	DEBATE	JOINT SYMPOSIUM ESTRO-ISMRM	SYMPOSIUM	MINI-ORALS 13	MINI-ORALS 14	POSTER DISCUSSION 13	POSTER DISCUSSION 14	COUNTOURING WORKSHOP
	Management of radio-recurrent prostate cancer	The hypoxic tumour microenvironment	Oligometastatic disease	Advances in radiotherapy for lung cancer	Ocular plaque brachytherapy	This house believes that in 10 years particle therapy will be in a better place than now!	Quantitative MRI for radiation oncology	RTTs: AI and digital awareness	14:15-15:15 Implementation of new technology	14:15-15:15 Head & neck	14:15-15:15 Brachytherapy	14:15-15:15 Urology 2	14:30-16:30 Special RTT
15:30-16:00	COFFEE BREAK												
16:00-16:25			HONORARY PHYSICIST AWARD										
16:25-16:50			IRIDIUM AWARD LECTURE										
16:55-17:55	PROFFERED PAPERS	PROFFERED PAPERS	PROFFERED PAPERS	PROFFERED PAPERS	PROFFERED PAPERS	PROFFERED PAPERS	PROFFERED PAPERS	PROFFERED PAPERS	MINI-ORALS 15	MINI-ORALS 16	POSTER DISCUSSION 15	POSTER DISCUSSION 16	
	Patient-reported outcomes	Microenvironment	Oligometastatic disease	Urology	Prostate, head & neck, eye	New technologies in clinical practice	Application of functional & quantitative imaging	Breast, rectum	Treatment plan optimisation & adaptation	RTT treatment planning, OAR & target definitions	Advances in patient care & treatment verifications	Lung	

● INTERDISCIPLINARY SESSION

● RADIOBIOLOGY SESSION

● CLINICAL SESSION

● PHYSICS SESSION

● RTT SESSION

● BRACHYTHERAPY SESSION

● YESTRO SESSION

# MONDAY 9 MAY 2022

	Room D4	Auditorium 12	Room D3	Room D1	Auditorium 11	Room D2	Room D5	Auditorium 15	Mini-Oral Theatre 1	Mini-Oral Theatre 2	Poster Station 1	Poster Station 2	Room 20
08:00-08:40	<b>TEACHING LECTURE</b> Biomarkers guiding dose de-escalation in HNSCC	<b>TEACHING LECTURE</b> Immobilisation in the rapidly changing world of radiotherapy: Now and into the future		<b>TEACHING LECTURE</b> Modern imaging in radiation oncology	<b>TEACHING LECTURE</b> MRI: From basic to state-of-the-art acquisition protocols	<b>TEACHING LECTURE</b> Rationale for microbiota-centered interventions in I-O and radiotherapy	<b>TEACHING LECTURE</b> U-Net for dummies	<b>TEACHING LECTURE</b> Leadership is a journey, not a position					
08:45-10:00	<b>SYMPOSIUM</b> New era of personalised radiotherapy in soft tissue sarcomas	<b>SYMPOSIUM</b> Online adaptive radiotherapy: The future is near!		<b>JOINT DEBATE ESTRO-PROS</b> This house believes that proton therapy is the standard of care for paediatric patients, adolescents and young adults requiring radiotherapy	<b>SYMPOSIUM</b> Online management of target motion	<b>SYMPOSIUM</b> Automation in radiotherapy	<b>SYMPOSIUM</b> Deep learning for target auto-segmentation	<b>SYMPOSIUM</b> The positive impact of good leadership	<b>MINI-ORALS 17</b> 09:00-10:00 Mixed sites, palliation	<b>MINI-ORALS 18</b> 09:00-10:00 CNS	<b>POSTER DISCUSSION 17</b> 09:00-10:00 Treatment planning	<b>POSTER DISCUSSION 18</b> 09:00-10:00 Breast	
10:00-10:30	COFFEE BREAK												
10:30-11:30	<b>PROFFERED PAPERS</b> Pelvic malignancies	<b>PROFFERED PAPERS</b> Adaptive radiotherapy		<b>PROFFERED PAPERS</b> Paediatrics	<b>PROFFERED PAPERS</b> Novel approaches towards IGRT	<b>PROFFERED PAPERS</b> Big data, AI	<b>PROFFERED PAPERS</b> Deep learning for image analysis	<b>GROWING YOUR NETWORK</b> Speed Dating	<b>MINI-ORALS 19</b> Applications of photon & ion beam therapy	<b>MINI-ORALS 20</b> Breast	<b>POSTER DISCUSSION 19</b> Dosimetry	<b>POSTER DISCUSSION 20</b> Head & neck	
11:40-12:40				<b>HIGHLIGHTS OF PROFFERED PAPERS</b> Latest Clinical Trials			<b>MULTIDISCIPLINARY TUMOUR BOARD</b> Paediatric oncology: Sarcoma						
12:45-14:15	LUNCH AND INDUSTRY SYMPOSIA								<b>YOUNG LUNCH SYMPOSIUM</b> Increasing the impact of your research				
14:15-15:30	<b>DEBATE</b> This house believes that an intensive follow up for high-risk breast cancer patients should be considered	<b>DEBATE</b> This house believes that brachytherapy is a dying art		<b>JOINT SYMPOSIUM ESTRO-EANO</b> Twists and turns of brain irradiation	<b>SYMPOSIUM</b> Adapting to changes on different time scales	<b>SYMPOSIUM</b> Lethal DNA double strand breaks production: Quality over quantity?	<b>SYMPOSIUM</b> Challenging the traditional margins for microscopic diseases	<b>SYMPOSIUM</b> Mobility for radiation oncology professionals	<b>MINI-ORALS 21</b> 14:15-15:15 Radiomics & modelling	<b>MINI-ORALS 22</b> 14:15-15:15 AI, big data, automation	<b>POSTER DISCUSSION 21</b> 14:15-15:15 Implementation of new technology & techniques	<b>POSTER DISCUSSION 22</b> 14:15-15:15 Gynaecology	
15:30-16:00	COFFEE BREAK												
16:00-16:25				<b>K. BREUR AWARD LECTURE</b>									
16:25-16:40				<b>DONAL HOLLYWOOD AWARD</b>									
16:45-17:45	<b>PROFFERED PAPERS</b> Breast	<b>PROFFERED PAPERS</b> Dosimetry & treatment planning		<b>PROFFERED PAPERS</b> CNS	<b>PROFFERED PAPERS</b> Inter-fraction motion & adaptive radiotherapy	<b>PROFFERED PAPERS</b> Health economics	<b>PROFFERED PAPERS</b> Multicentre validation studies	<b>QUIZ</b> Young Researcher Awards					
18:00-19:00							<b>GENERAL ASSEMBLY</b>						

● INTERDISCIPLINARY SESSION

● RADIOBIOLOGY SESSION

● CLINICAL SESSION

● PHYSICS SESSION

● RTT SESSION

● BRACHYTHERAPY SESSION

● YESTRO SESSION

# TUESDAY 10 MAY 2022

	Room D4	Auditorium 12	Room D3	Room D1	Auditorium 11	Room D2	Room D5	Auditorium 15	Mini-Oral Theatre 1	Mini-Oral Theatre 2	Poster Station 1	Poster Station 2	Room 20
08:30-09:10	<b>TEACHING LECTURE</b> Hypofractionation for the management of postoperative PCa	<b>TEACHING LECTURE</b> Calculating margins correctly: Abracadabra with numbers?		<b>TEACHING LECTURE</b> Is endometrial cancer ready for treatment individualisation based on molecular risk factors?	<b>TEACHING LECTURE</b> How can omics lead to personalised radiation oncology?	<b>TEACHING LECTURE</b> Deformable registration for dose accumulation: Current status and future challenges	<b>TEACHING LECTURE</b> Immunotherapy and radiotherapy: Basics for physicists	<b>TEACHING LECTURE</b> Toxicity vs tumour control: What makes a good pelvic radiotherapy plan?					
09:15-10:30	<b>SYMPOSIUM</b> Fractionation for external beam radiation therapy in early breast cancer: State-of-the-art	<b>PANEL DISCUSSION</b> Artificial Intelligence: Friend or foe of the RTT?		<b>JOINT SYMPOSIUM ESTRO-ESGO</b> Joint guidelines on the management of vaginal cancer	<b>JOINT SYMPOSIUM ESTRO-ESR</b> Imaging biomarkers for personalised radiotherapy	<b>SYMPOSIUM</b> Medical physicists should be directly involved in the design, execution and interpretation of clinical trials	<b>SYMPOSIUM</b> Modelling of complex systems and interactions	<b>SYMPOSIUM</b> Anal cancer					
10:30-11:00	<b>COFFEE BREAK</b>												
11:00-12:15	<b>DEBATE</b> This house believes that short-course radiotherapy is the ideal schedule as part of total neoadjuvant therapy programs for rectal cancer	<b>SYMPOSIUM</b> Changing the radiation medicine paradigm		<b>SYMPOSIUM</b> HPV-related squamous cell carcinoma: Is it time for de-intensification?	<b>SYMPOSIUM</b> Adaptation and automation: The new frontier in radiotherapy	<b>SYMPOSIUM</b> Spatial and spatio-temporal fractionation	<b>SYMPOSIUM</b> Modelling at the voxel level: Dose and image-data mining	<b>SYMPOSIUM</b> Changes in disease pattern after the pandemic					
12:20-13:25								<b>CLOSING SESSION</b> Which innovations will have the greatest impact in radiotherapy by 2030? <b>Closing remarks</b>					

● INTERDISCIPLINARY SESSION

● RADIOBIOLOGY SESSION

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● RTT SESSION

● BRACHYTHERAPY SESSION

● YESTRO SESSION



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