



ESMPE European School for Medical Physics Experts
The important roles of Medical Physicists' in clinical trials
September 11, 2024

Munich, Germany

This comprehensive course delves into the crucial contributions of medical physicists in shaping and ensuring the success of clinical trials. From trial design and leadership to quality assurance in imaging and radiotherapy trials, participants will gain valuable insights into optimizing trial data, implementing findings into daily practice, and navigating the evolving landscape of AI in clinical research. Led by esteemed experts in the field, this course offers a unique opportunity for dialogue, debate, and collaborative learning. This one-day event will be accredited by EBAMP (European Board of Accreditation for Medical Physics) as CPD event for Medical Physicists at EQF Level 8.

Faculty

Christian Rønn Hansen	Odense University Hospital, Denmark
Loredana Marcu	University of Oradea, Romania
Ane Appelt	University of Leeds, UK
Lorenzo Mazzone	USL Toscana Centro, Pistoia, Italy
Camilla Panduro Nielsen	Odense University Hospital, Denmark
Jesper Grau Eriksen	Aarhus University Hospital, Denmark

Time-table

11th September Wednesday	Title	Description	Lecturer
8:00-9:00	Registration		
	Chair: Christian Rønn Hansen		
9:00-9:15	Welcome and Introduction	Introduction of the outline of the course and practical information	Christian Rønn Hansen (DK)
9:15-10:00	The wide role of medical physicists in clinical trials: summary of EFOMP work group	The talk will present the results of an EFOMP-driven survey regarding the actual status of the role of the medical physicist in	Loredana Marcu (RO)

		clinical trials across Europe, also justifying the creation of the working group. A summary of the guidelines prepared by the working group will be presented.	
10:00-10:30	How can medical physicists contribute to trial design and leadership?	The role of the medical physicists in trial design and leadership are highlighted to emphasize the need for a multidisciplinary approach to clinical trials, particularly in radiotherapy and imaging.	Ane Appelt (UK)
10:30-11:00	Coffee Break	Available at participants expense in the Congress venue	
11:00-11:30	What to consider in trial QA for imaging in clinical trials	'All aspects regarding quality assurance in clinical trials are crucial for a successful trial. This talk will focus on QA strategies dedicated to imaging used in clinical trials	Lorenzo Nicola Mazzoni (IT)
11:30-12:00	What to consider in trial QA within radiotherapy trials	The talk will address how RTQA can be performed in clinical trials. Examples from pre-, on- and post-trial QA will be presented.	Christian Rønn Hansen (DK)
12:00-13:00	Lunch break Available at participants expense in the Congress venue		
	Chair: Loredana Marcu		
13:00-13:30	How do we get the most out of rich trial data? Research data, statistical analyses, and secondary use	This talk will highlight the several roles medical physicists can have within clinical trials, including data processing, statistical analysis and implications in secondary use / implementation of research data.	Ane Appelt (UK)
13:30-14:00	From clinical trials to daily clinical practice: medical physicist's role in implementation	One of the main objectives of a clinical trial is to gain new knowledge and change clinical practice. The talk will address some of the key elements in a safe clinical implementation, and what roles the medical physicist take on.	Christian Rønn Hansen (DK)
14:00-14:45	It takes a village: The clinicians's viewpoint on the medical physicist's role in clinical trials	This talk aims to emphasize the team work required for a successful design / implementation of a clinical trial from a clinician's viewpoint. The collaborative role of the medical physicist is also discussed.	Jesper Grau Eriksen (DK)
14:45-15.15	Coffee Break	Available at participants expense in the Congress venue	

15:15-15:45	The role of medical physicist's when using AI in clinical trial	AI is becoming an important tool in RT and, therefore, in clinical trials. The talk will present some of the recent developments of AI used in clinical trials.	Camilla Panduro Nielsen (DK)
15:45-16:30	Debate and discussions between the faculty and attendees	Discussion on the multidisciplinary of clinical trials and the importance of each profession's role in its success, with emphasis on the role of the medical physicist, as also viewed from a doctor's perspective.	Chair: Loredana Marcu (RO)

Further information

Course language	English
Level	MPE – Level 8
Maximum number of participants	80
Date	11th of September 2024
Study load	6 hours of lectures and demonstrations
CPD Points	Points to be confirmed (EBAMP Accreditation)