ESMPE European School for Medical Physics Experts

Hybrid Approaches in Radiation Therapy

12th–13th October 2021

Online webinar course with *live* lectures

EFOMP jointly with COCIR would like to invite you to the next ESMPE in **Hybrid Approaches in Radiation Therapy.** The school will be organized as a 2-day virtual meeting, which will be held on 12th–13th October 2021.

The school will be focused on therapies and devices using hybrid concepts in which the classical radiation therapy is nowadays fused with a second approach to establish the current treatment standard. The aim will be presenting the background, practical methodology, state-of-the-art and future developments. All of the lectures will be delivered live (i.e. not pre-recorded).

This two-day event has been accredited by EBAMP (European Board of Accreditation for Medical Physics) as a CPD event for Medical Physicists at EQF Level 8 and awarded 23 CPD credit points. The school is intended for Medical Physicists Experts who wish to expand their knowledge in hybrid radiation therapy approaches. Certificates of attendance will be issued to those who attend the whole course.

Content

- Radiation therapy concepts
- Image guided radiation therapy (IGRT)
- Adaptive radiation therapy (ART)
- Surface guided radiation therapy (SGRT)
- Brachytherapy

Organisers

Alberto Torresin (Chair of the School),

Christoph Bert and Jose Perez-Calatayud (Scientific Co-Chairs)

Efi Koutsouveli and Thomas Amorgianiotis (EFOMP online platforms)

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Faculty

Name	Location
Jorge Bonaque Alandi	Hospital Universitari i Politècnic la Fe, ES
Dimos Baltas	University of Freiburg, DE
Oliver Blanck	Universitätsklinikum Schleswig-Holstein, DE
Kevin Brown	Elekta, UK
Rodolfo Chicas	Francisco Marroquín University, ES
Luca Cozzi	Varian, IT
Eric Deutsch	Gustave Roussy, FR
Taran Hellebust	Oslo University Hospital , NO
Marcel van Herk	The University of Manchester, UK
Aswin Hoffmann	Oncoray, DE
Inger-Karine Kolkman-Deurloo	Erasmus MC, NL
Malin Kügele	Lund University, SE
Raphael Moeckli	Centre Hospitalier Universitaire Vaudois, CH
Christian Möhler	Siemens Healthineers, DE
Rafael Garcia Molla	University of Valencia, ES
Nicole Nesvacil	Medical University of Vienna, AU
Susan Reid	Accuray,CH
Paul Retif	Hôpital de Mercy, FR
Daniela Thorwarth	University of Tübingen, DE
Conchita Vens	NKI, NL

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Schedule – day 1

Tuesday, October, 12th 2021					
Slot	**Time (CET)**	**Session**	**Title**	**Description**	**Lecturer**
	10:00-10:30	Introduction to the EFOMP School			
1	10:30-10:55	Radiation Oncology	Radiosensitation	Chemotherapy, Immunotherapy	Conchita Vens/NL
2	11:00-11:25		(Neo-) Adjuvant setting	Concepts, requirements, pathways	Rodolfo Chicas/ES
3	11:30-11:55		Future developments	Which hybrid functionality would I like to have?	Eric Deutsch/FR
	11:55-12:10	Q&A			
	12:10-12:45	Break			
4	12:45-13:10	Company lectures	AI-based contouring of OAR	Challenges, benefits, risks	Christian Möhler/DE
5	13:15-13:40		CBCT-based adaptive radiation therapy	Concepts, workflows, initial experience	Luca Cozzi/IT
	13:40-13:55	Q&A			
	13:55-14:30	Break			
6	14:30-14:55	IGRT	Linac based	(4D) CBCT, kV/kV, kV/MV	Marcel van Herk, UK
7	15:00-15:25		Cyberknife	kV/kV, intra-fractional, tracking	Oliver Blanck/DE
8	15:30-15:55		Tomotherapy	MV imaging	Raphael Moeckli/SE
9	16:00-16:25		Protons + MRI	From technical challenges to clinical opportunities	Aswin Hofmann/DE
	16:30-17:15	Q&A	Live Q&A session with all first-day speakers		

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Schedule – day 2

Wednesday, October, 13th 2021					
Slot	**Time (CET)**	**Session**	**Title**	**Description**	**Lecturer**
	10:10-10:30	Opening remarks – first day overview			
10	10:30-10:55	Brachy-therapy	IORT	Imaging, RT and Surgery	Dimos Baltas/DE
11	11:00-11:25		IGBT	MRI-based	Taran Hellebust/NO
12	11:30-11:55		IGBT	CT-based	Nicole Nesvacil/AT
13	12:00-12:25		QA	EMT based	Inger-Karine Kolkman-Deurloo/NL
	12:25-12:40	Q&A			
	12:40-12:50	Break			
14	12:50-13:15	Company lectures	MRI-based adaptive radiation therapy	Concepts, workflows, initial experience	Kevin Brown/UK
15	13:20-13:45		Realtime adaptive radiation therapy	Concepts, workflows, initial experience	Susan Reid/CH
	13:45-14:00	Q&A			
	14:00-14:30	Break			
16	14:30-14:55	SGRT	Optical SGRT	Possibilities, pitfalls, and clinical experience with SGRT	Malin Kügele/SE
17	15:00-15:25		Thermo-based SGRT	Benefit of temperature information, benefit of kV/kV imaging	Paul Retif/FR
18	15:30-15:55	ART	CBCT-based ART	Possibilities and pitfalls of CBCT-based ART	Rafael Garcia Molla and Jorge Bonaque Alandí/ES
19	16:00-16:25		MRI-based ART	Is there an MRI-based ART w/o an MR-Linac?	Daniela Thorwarth/DE
	16:30-17:15	Q&A	Live Q&A session with all second-day speakers		

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Further information

Course language	English
Level	Medical Physicists and Medical Physics Experts (MPE)
Registration fee*	Open to Individual Associate Members of EFOMP
Maximum number of participants	500
Duration	Tuesday 12th – Wednesday 13th October 2021
Study load	10h
Venue	Online
Website:	www.efomp.org
Accreditation	European Board for Accreditation in Medical Physics (EBAMP)
Information, programme at:	www.efomp.org
Registration	Electronic registration via EFOMP website
Registration period	July 28th – October 8th 2021

*Free registration is reserved for Individual Associate Members of EFOMP, who must register for the online School on a first-come, first-served policy.

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