



ESMPE



ESMPE European School for Medical Physics Experts

School for Interventional Radiology in Medical Physics

18th-20th September 2025, Zagreb, Croatia

EFOMP in collaboration with the Croatian Medical Physics Association (CROMPA) and University of Zagreb School of Medicine (UZSM) would like to invite you to the next ESMPE on 18th-20th September 2025. The school will be aimed to introduce the basic and also advanced concepts of interventional radiology practices for medical physicist. It will cover the latest updates on quality assurance for interventional X-ray units. Participants will receive an introductory overview of radiation effects in interventional radiology, including patient and skin dose management. Various types of interventional procedures, ranging from interventional cardiology to interventional radiology, will be explored. Additionally, companies will present and discuss the latest technologies used in interventional radiology.

This two-and-a-half day event is accredited by EBAMP (European Board of Accreditation for Medical Physics) as CPD event for Medical Physicists at EQF Level 8 (Accreditation no. APP-00335) and is intended for practicing clinical Medical Physicists who are involved or interested in diagnostic and interventional radiology. There will be an optional examination at the end for those seeking a higher level of certification beyond attendance.

This event will be in a hybrid format. All lecturers will give their talks on-site in Zagreb, but participants can choose if they want to attend the school on-site or online, it will be live-streamed.

Please note: All times shown are in CET

Content

Description of interventional practices. What they do, what they need.

Introduction to radiation effects in interventional radiology.

Skin dose estimation and effective dose

Patient dose management.

Quality control of X-ray units and image quality as a function of delivered dose.

Interventional practices from cardiology to radiology and neuroradiology.

Occupational dose, EC regulation and occupational dose concepts will be reviewed

Final examination

The final exam is voluntary. Participants can gain additional credits when successfully pass the test.

Organisers

Roberto Sanchez, Lucie Súkupová (Scientific Chairs)
Joao Seco (Chair of the School)

Local organisers

Ivana Kralik (CROMPA)
Sanja Dolanski Babić (UZSM)





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Faculty

Joao Seco	German Cancer Research Center (DKFZ), Heidelberg, Germany
Efi Koutsouveli	EFOMP President, Hygeia Hospital, Athens, Greece
Lucie Súkupová	Institute for Clinical and Experimental Medicine, Prague, Czechia.
Roberto Sanchez	Hospital Clínico San Carlos & Universidad Complutense de Madrid, Spain.
Jonas S Andersson	Umea University, Sweeden.
Paddy Gilligan	Mater Misericordiae Hospital, Dublin, Ireland.
Vjekoslav Radeljić	University Hospital Center Sestre milosrdnice & School of Medicine University of Zagreb, Croatia.
Andy Rogers	University of Nottingham, United Kingdom.
Michael Sandborg	Linköping University, Sweden.
Jenia Vasileva	National Center of Radiobiology and Radiation Protection, Sofia, Bulgaria.
Virginia Tsapaki	Section of Dosimetry and Medical Radiation Physics, Division of Human Health Department of Nuclear Sciences and Applications, International Atomic Energy Agency
Tajana Turk	University Hospital Centre & School of Medicine J. J. Strossmayer University, Osijek, Croatia





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Thursday 18th September 2025

	Session Title	Lecturer
08:00-9:00	<i>Registration</i>	
9:00-9:15	EFOMP School presentation	J. Seco E. Koutsouveli
9:15-10:30	Interventional practices. Types of procedures, clinical aims of interventional procedures. Requirements on image quality from the medical point of view	V. Radeljić T. Turk
10:30-11:00	<i>Coffee break</i>	
11:00-12:00	Interventional procedures from MPE point of view	L. Súkupová
12:00-13:00	X-ray equipment description.	L. Súkupová
13:00-14:30	<i>Lunch break</i>	
14:30-15:30	Quality Control for X-Ray units.	M. Sandborg
15:30-16:30	Image quality.	A. Rogers
16:30-17:00	<i>Coffee break</i>	
17:00-18:00	Tips and tricks in quality control.	A. Rogers





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Friday 19th September 2025

	Session Title	Lecturer
08:00-10:00	New technologies and challenges. Update from industry partners.	Siemens Philips Canon GE
10:00-10:30	<i>Coffee break</i>	
10:30-11:30	Radiation effects in interventional radiology	J. Vassileva
11:30-12:30	Dose management systems in interventional radiology.	V. Tsapaki
12:30-13:00	Incident notification and incident learning systems	A. Rogers
13:00-14:30	<i>Lunch break</i>	
14:30-15:30	Patient dose management. Practical examples.	R. Sánchez
15:30-16:30	Skin dose and effective dose estimation	J. S. Andersson
16:30-17:00	<i>Coffee break</i>	
17:00-18:00	Practice in dose estimation	J. S. Andersson
20:00	<i>Social dinner - participants + lecturers</i>	





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Saturday 20th September 2025

	Session Title	Lecturer
08:30-09:30	Occupational dose in interventional radiology	P. Gilligan
09:30-10:00	The role of Medical Physics Expert in Radiation Protection training	P. Gilligan
10:00-10:30	<i>Coffee break</i>	
10:30-11:30	Pregnancy in patients and professionals in interventional radiology	J. Vassileva
11:30-12:30	Advanced occupational dosimetry	R. Sánchez
12:30-13:00	Final discussion with participants	Faculty
13:00-14:00	Assessment	



Course language	English
Level	Medical Physics / Medical Physics Expert
Registration fee* (2 main meals, 5 coffee breaks, 1 social dinner)	400 € (*VAT included)
Reduced registration fee* - subsidized by EFOMP - first-come, first-served policy	150 € (*VAT included) - for the first 40 participants (max. 3 from one country) coming from the following European countries: Albania, Bosnia and Herzegovina, Bulgaria, Estonia, Greece, Hungary, Latvia, Lithuania, Moldova, North Macedonia, Poland, Portugal, Romania, Serbia, Slovak Republic, Spain, Ukraine.
Maximum number of on-site/online participants	60/90
Duration	18 th -20 th September 2025
Study load	20 hours of lectures and case examples, 1h optional exam
Venue	School of Public Health "Andrija Štampar" https://www.snz.unizg.hr/en/
Accommodation	Individual
Information, programme at:	www.efomp.org
Registration	Electronic registration via www.efomp.org
Registration period	1 st February 2025 – 4 th September 2025 (4 th September 2025 for online participation only)

* payment must be done in 7 days following the pre-registration, otherwise pre-registration will be cancelled and neither free place nor subsidized or ordinary fee can be granted for repeated registration

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