



ESMPE European School for Medical Physics Experts

## School for Interventional Radiology in Medical Physics

18<sup>th</sup>-20<sup>th</sup> 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 18<sup>th</sup>-20<sup>th</sup> 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-half day event will be accredited by EBAMP (European Board of Accreditation for Medical Physics) 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.

ESMPE have decided 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 Súpová (Scientific Chairs)  
Joao Seco (Chair of the School)

### Local organisers

Ivana Kralik (CROMPA)  
Sanja Dolanski Babić (UZSM)



## Faculty

Joao Seco	DKFZ, Heidelberg, Germany
Jonas S Andersson	Umea University, Sweeden.
Jenia Vasileva	National Center of Radiobiology and Radiation Protection, Sofia, Bulgaria.
Andy Rogers	University of Nottingham, United Kingdom.
Michael Sandborg	Linköping University, Sweden.
Paddy Gilligan	Mater Misericordiae Hospital, Dublin, Ireland.
Assist. Prof. Tajana Turk	University Hospital Centre & School of Medicine J. J. Strossmayer University, Osijek, Croatia
Prof. Vjekoslav Radeljić	University Hospital Center Sestre milosrdnice & School of Medicine University of Zagreb, Croatia.
Lucie Súpková	Institute for Clinical and Experimental Medicine, Prague, Czechia.
Roberto Sanchez	Hospital Clínico San Carlos & Universidad Complutense de Madrid, Spain.

Thursday 18<sup>th</sup> September 2025

	Session Title	Lecturer
08:00-9:00	<i>Registration</i>	
9:00-9:15	Course presentation	J. Seco
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. Súpová
12:00-13:00	X-ray equipment description.	L. Súpová
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

Friday 19<sup>th</sup> September 2025

	Session Title	Lecturer
08:00-10:00	New technologies and challenges	Manufacturers
10:00-10:30	<i>Coffee break</i>	
10:30-11:30	Radiation effects in interventional radiology	J. Vassileva
11:30-12:30	Patient dose management in interventional practices	R. Sánchez
12:30-13:00	Incident notification and incident learning systems	A. Rogers
13:00-14:30	<i>Lunch break</i>	
14:30-15:30	Skin dose and effective dose estimation	J. S. Andersson
15:30-16:30	Practice in dose estimation	J. S. Andersson
16:30-17:00	<i>Coffee break</i>	
17:00-18:00	Occupational dose in interventional radiology	P. Gilligan
20:00	<i>Social dinner - participants + lecturers</i>	

Saturday 20<sup>th</sup> September 2025

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

20:00

*Social dinner - participants + lecturers*

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* <ul style="list-style-type: none"> <li>• subsidized by EFOMP</li> <li>• first-come, first-served policy</li> </ul>	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 <sup>th</sup> -20 <sup>th</sup> September 2025
Study load	20 hours of lectures and case examples, 1h optional exam
Venue	School of Public Health "Andrija Štampar" <a href="https://www.snz.unizg.hr/en/">https://www.snz.unizg.hr/en/</a>
Accommodation	Individual
Information, programme at:	<a href="http://www.efomp.org">www.efomp.org</a>
Registration	Electronic registration via <a href="http://www.efomp.org">www.efomp.org</a>
Registration period	1 <sup>st</sup> February 2025 – 4 <sup>th</sup> September 2025 (4 <sup>th</sup> 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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