

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-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 Súpová (Scientific Chairs)
Joao Seco (Chair of the School)

Local organisers

Ivana Kralik (CROMPA)
Sanja Dolanski Babić (UZSM)

Faculty

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|--------------------|---|
| Joao Seco | German Cancer Research Center (DKFZ), Heidelberg, Germany |
| Efi Koutsouveli | EFOMP President, Hygeia Hospital, Athens, Greece |
| Lucie Súpová | 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 |

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. 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 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> | |

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 | |

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|---|---|
| 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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