



**ESMPE European School for Medical Physics Experts**  
**School for Radionuclide Internal Dosimetry**  
**13<sup>th</sup>-15<sup>th</sup> February 2025, Prague, Czech Republic**

EFOMP in collaboration with the SIG\_FRID and the Czech Association of Medical Physics (CAMP) would like to invite you to the next ESMPE on **13<sup>th</sup>-15<sup>th</sup> February 2025**.

The school will be aimed at introducing the basic concepts of dosimetry applied to radionuclide therapy and Theranostics. The school will cover the methods of basic dosimetry including MIRD scheme, voxel-dosimetry, and radiobiology with practical examples of different radionuclide treatments.

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 in nuclear medicine therapies. 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 Prague, but participants can choose if they want to attend the school on-site (limited number of participants) or online, it will be live-streamed.

***Please note: All times shown are in CET***

### **Content**

- Introduction to basic dosimetry methods.
- Advanced image quantification methods for image-based dosimetry.
- Different dosimetry calculation methods.
- Relevance of dosimetry.
- Workflows.
- Commissioning and validation.
- Practical examples and hands-on dosimetry exercise.

### **Final exam**

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

### **Organisers**

Lidia Strigari, Julia Brosch-Lenz (Scientific Chairs)  
Joao Seco (Chair of the School)





## Faculty

Carlo Chiesa	Foundation IRCCS Istituto Nazionale Tumori, Milan, Italy
Elisa Richetta	AO Ordine Mauriziano, Turin, Italy
Jan Taprogge	The Royal Marsden, London, England
José Alejandro Fragoso Negrin	IRCM / INSERM, Montpellier, France
Julia Brosch-Lenz	Institute of Nuclear Medicine, Bethesda, United States
Lidia Strigari	University of Bologna, Bologna, Italy
Manuel Bardiès	Cancer Research Institute, Montpellier, France
Mattias Sandström	Uppsala University, Uppsala, Sweden



# ESMPE

Thursday 13<sup>th</sup> February 2025

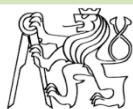
	Session Title	Lecturer
7:30-8:30	<i>Registration</i>	
08:30-9:30	Introductions and roundtable	Lidia Strigari Julia Brosch-Lenz
09:30-10:15	Advanced image quantification and dosimetry methods Part I	Julia Brosch-Lenz
10:15-10:45	<i>Coffee break</i>	
10:45-12:00	Advanced image quantification and dosimetry methods Part II	Julia Brosch-Lenz
12:00-13:00	Which dosimetry for which application: - Relevance of dosimetry - Workflows - Commissioning and validation	Lidia Strigari
13:00-14:30	<i>Lunch break</i>	
14:30-15:00	<b>Clinical dosimetry for Selective Internal RadioTherapy:</b> Presentation of the clinical case, methodology, and software	Carlo Chiesa
15:00-15:30	<b>Clinical dosimetry for Selective Internal RadioTherapy:</b> Practical session – Part I	Carlo Chiesa
15:30-16:00	<i>Coffee break</i>	
16:00-18:00	<b>Clinical dosimetry for Selective Internal RadioTherapy:</b> Practical session – Part II	Carlo Chiesa
18:00-18:30	<b>Clinical dosimetry for Selective Internal RadioTherapy:</b> Debrief	Carlo Chiesa
20:00-23:00	<i>Social dinner - participants + lecturers</i>	



# ESMPE

Friday 14<sup>th</sup> February 2025

	Session Title	Lecturer
08:00-08:30	<b>Clinical dosimetry for 177Lu-based therapies</b> Presentation of the clinical case, methodology and software	Mattias Sandström
08:30-09:45	<b>Clinical dosimetry for 177Lu-based therapies</b> Practical session – Part I	Mattias Sandström
09:45-10:15	<i>Coffee break</i>	
10:15-12:00	<b>Clinical dosimetry for 177Lu-based therapies</b> Practical session – Part II	Mattias Sandström
12:00-13:30	<i>Lunch break</i>	
13:30-14:00	<b>Clinical dosimetry for 177Lu-based therapies</b> Debrief	Mattias Sandström
14:00-14:30	<b>Clinical dosimetry for benign thyroid pathologies</b> Presentation of the clinical case, methodology, and software	Jan Taprogge
14:30-15:30	<b>Clinical dosimetry for benign thyroid pathologies</b> Practical session – Part I	Jan Taprogge
15:30-16:00	<i>Coffee break</i>	
16:00-18:00	<b>Clinical dosimetry for benign thyroid pathologies</b> Practical session – Part II	Jan Taprogge
18:00-18:30	<b>Clinical dosimetry for benign thyroid pathologies</b> Debrief	Jan Taprogge





# ESMPE

Saturday 15<sup>th</sup> February 2025

	Session Title	Lecturer
08:00-08:30	<b>Clinical dosimetry for metastatic thyroid cancer treatment</b> Presentation of the clinical case, methodology and software	Elisa Richetta
08:30-10:00	<b>Clinical dosimetry for metastatic thyroid cancer treatment</b> Practical session – Part I (blood and lesion dosimetry)	Elisa Richetta
10:00-10:30	<i>Coffee break</i>	
10:30-11:30	<b>Clinical dosimetry for metastatic thyroid cancer treatment</b> Practical session – Part II (blood and lesion dosimetry)	Elisa Richetta
11:30-12:00	Debrief	Elisa Richetta
12:00-12:30	Wrap-up discussion and Closure	Lidia Strigari Julia Brosch-Lenz
12:30-13:30	<i>Break before Exam</i>	
13:30-14:30	Optional final exam (For those seeking a certification beyond attendance)	Lidia Strigari Julia Brosch-Lenz





# ESMPE

Course language	English
Prerequisite	Basic online radionuclide dosimetry webinars of SIG_FRID
Level	Any level of dosimetry knowledge, however basic knowledge of nuclear medicine and medical physics is required
Registration fee* (2 main meals, 5 coffee breaks, 1 social dinner)	300 € 350 € (from 15 <sup>th</sup> January 2025)
Reduced registration fee* <ul style="list-style-type: none"><li>• subsidized by EFOMP</li><li>• first-come, first-served policy</li></ul>	150 € - for the first 30 participants (max. 2 from one country) coming from the following European countries: Albania, Bosnia and Herzegovina, Bulgaria, Croatia, 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	13 <sup>th</sup> -15 <sup>th</sup> February 2025
Study load	20 hours of lectures and case examples, 1h optional exam
Venue	Department of Dosimetry and Application of Ionizing Radiation, Faculty of Nuclear Sciences and Physical Engineering, Czech Technical University in Prague, Břehová 7, 115 19 Prague 1, CZECH REPUBLIC
GPS coordinates	50°5'27.737"N, 14°24'58.713"E
Accommodation	Individual
Information, programme at:	<a href="http://www.efomp.org">www.efomp.org</a>
Registration	Electronic registration via <a href="#">EFOMP :: On-line Registration for Radionuclide Internal Dosimetry</a>
Registration period	1 <sup>st</sup> August 2024 – 15 <sup>th</sup> January 2025 (7 <sup>th</sup> February 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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