

## ESMPE European School for Medical Physics Experts Nuclear Medicine Dosimetry

June 16<sup>th</sup> , 2021 , Torino, Italy (virtual)

This one day satellite meeting will be held in conjunction with the 3<sup>rd</sup> European Congress of Medical Physics. This mini-course will focus on practical issues related to the implementation of clinical nuclear medicine dosimetry, mostly in a therapeutic context.

The morning session will present a basic reminder of NM dosimetry principles and use, discuss available software solutions for clinical dosimetry and present uncertainty analysis applied to Nuclear Medicine dosimetry practice according to recent EANM guidelines\*.

The afternoon session will be dedicated to reproducibility, robustness and metrology applied to nuclear medicine dosimetry. Finally, OpenDose3D, an opensource 3D Slicer module for patient-specific dosimetry will be demonstrated..

The event will be accredited by EBAMP (European Board for Accreditation in Medical Physics) and is intended for practicing clinical Medical Physicists who are involved in the field of NM dosimetry.

**Manuel Bardiès, Jaroslav Ptáček** (Scientific Chairs)

**Alberto Torresin** (Chair of the School)

Faculty	
Manuel Bardiès	Institut de Recherche en Cancérologie de Montpellier & Institut Régional du Cancer de Montpellier, France
Mark Konijnenberg	Erasmus MC, Rotterdam & Radboud UMC, Nijmegen, The Netherlands
Jonathan Gear	The Royal Marsden NHSFT, Sutton, UK
Andrew Robinson	The National Physical Laboratory, Teddington, UK
Alex Vergara Gil	Centre de Recherches en Cancérologie de Toulouse, Toulouse, France
Ludovic Ferrer	Institut de Cancérologie de l'Ouest, St Herblain, France

\*<https://link.springer.com/article/10.1007%2Fs00259-018-4136-7>

## Time-table

	Session title	Description	Lecturer
Morning session Chairs: Mark Konijnenberg & Jonathan Gear			
9:15-9:30	Opening of the NM satellite event	Why are we here?	Manuel Bardiès/FR
9:30-10:15	Clinical Dosimetry	Refresher course, principles and application in the clinics: why and when? How?	Mark Konijnenberg/NL
10:15-10:30	Break		
10:30-11:15	Software for clinical dosimetry	What is available, and software selection: commercial, academic or both?	Manuel Bardiès/FR
11:15-12:00	Uncertainty analysis in nuclear medicine dosimetry	Uncertainties in nuclear medicine clinical dosimetry: how to implement in practice?	Jonathan Gear/UK
12:00-13:00	Break		
Afternoon session Chairs: Alex Vergara Gil & Ludovic Ferrer			
13.00-13.45	Reproducible science: Tools to increase traceability and robustness	Tools that will help improving the quality and reproducibility of our work	Ludovic Ferrer/FR
13.45-14.30	Standardisation and metrology for clinical dosimetry	Why metrology is a game-changer in targeted radiotherapy	Andrew Robinson/UK
14:30-14:45	Break		
14:45-15:30	OpenDose3D: a 3D Slicer-based software for patient-specific dosimetry	Presentation of the main features of OpenDose3D and demo on a practical case	Alex Vergara Gil /FR
15:45-16:00	Discussion	Panel discussion and closing remarks	All

## Further Information

Course language	English
Level	MPE
Registration fee* (meal & coffee breaks)	50 € + VAT
Duration	16 <sup>th</sup> June 2021
Study load	6 hours of lectures and discussions
Venue	Virtual with live lectures
Information, programme at:	<a href="http://www.efomp.org">www.efomp.org</a>
Registration	Electronic registration via <a href="http://www.ecmp2020.org">www.ecmp2020.org</a>

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