

16-19 June 2021



3<sup>rd</sup> European Congress  
of Medical Physics

Embracing Change, Sharing Knowledge



11<sup>o</sup> Congresso  
Nazionale AIFM

[www.ecmp2020.org](http://www.ecmp2020.org)

VIRTUAL EDITION

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

16th June 2021

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]*

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

**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*



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## Day Satellite Meeting - Programme

8:00 Registration.

**Morning session** - Chairs: *Mark Konijnenberg, Jonathan Gear*

9:15 **Opening of the NM satellite event**

Why are we here? *Manuel Bardiès [FR]*

9:30 **Clinical Dosimetry**

Refresher course, principles and application in the clinics: why and when? How? *Mark Konijnenberg [NL]*

10:15 *Coffee break*

10:30 **Software for clinical dosimetry**

What is available, and software selection: commercial, academic or both? *Manuel Bardiès [FR]*

11:15 **Uncertainty analysis in nuclear medicine dosimetry**

Uncertainties in nuclear medicine clinical dosimetry: how to implement in practice? *Jonathan Gear [UK]*

12:00 *Lunch break*

**Afternoon session** - Chairs: *Alex Vergara Gil, Ludovic Ferrer*

13:00 **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 **Standardisation and metrology for clinical dosimetry**

Why metrology is a game-changer in targeted radiotherapy. *Andrew Robinson [UK]*

14:30 *Coffee break*

14:45 **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 **Discussion**

Panel discussion and closing remarks



ASSOCIAZIONE ITALIANA  
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This course is accredited by EBAMP as CPD event for Medical Physicists  
at EQF Level 8 and awarded 14 CPD credit points.

## Further Information

Course language: English

Level: MPE

Registration fee (meal & coffee breaks): € 50,00 + VAT

Duration: 16<sup>th</sup> June 2021

Study load: 6 hours of lectures and discussions

Venue: virtual with live lectures

Information, programme at: [www.efomp.org](http://www.efomp.org)

Registration: electronic registration via [www.ecmp2020.org](http://www.ecmp2020.org)

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