



European Congress of Medical Physics

23 - 25 August 2018
Copenhagen · Denmark



ESMPE European School for Medical Physics Experts

Fundamentals of Nuclear Medicine Dosimetry

August 22, 2018

Copenhagen, Denmark

The school will be aimed at introducing the most recent aspects of Nuclear Medicine Dosimetry. This one day satellite meeting will be held in conjunction with the 2nd European Congress of Medical Physics. The event will be accredited by EBAMP (European Board for Accreditation in Medical Physics) and is intended for practising clinical Medical Physicists who are involved, or intend to be involved, in Nuclear Medicine dosimetry. The event is under the auspices of the EANM.

Faculty

Dr. Manuel Bardiès	Cancer Research Centre of Toulouse, France
Dr. Marta Cremonesi	Istituto Europeo di Oncologia, Milano, Italy

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Time-table

22 nd August 2018 Wednesday	Title	Description	Lecturer
8:00-9:00	Registration		
	Nuclear Medicine Dosimetry bases		
9:00-9:45	The MIRD formalism for radiopharmaceutical dosimetry	The basic schema for dosimetry calculations and the concepts involved	Bardiès
9:45-10:30	Diagnostic dosimetry	ICRP models underlying the application of dosimetry - Paediatric dosage card	Bardiès
	Clinical dosimetry principles		
10:30-11:00	Activity determination	The power of imaging - conversion of image data to absolute values of uptake	Cremonesi
11:00-11:30	Cumulated activity assessment	From time activity curve to total number of disintegration	Cremonesi
11:30-12:00	Absorbed dose algorithms	Radiation transport and energy deposition	Bardiès
12:00-13:00	Lunch break		
	Clinical dosimetry in Targeted Radionuclide Therapy		
13:00-13:30	Absorbed dose effect	Evidence to support the hypothesis that treatment outcome is dependent on the absorbed doses delivered	Bardiès
13:30-14:00	Bone marrow dosimetry	The red marrow is frequently the absorbed dose limiting organ but dosimetry is challenging.	Cremonesi
14:00-14:30	Dosimetry for PRRT	Clinical dosimetry for PRRT. How is it performed, what are the implications?	Cremonesi
	Advanced approaches		
14:30-15:00	Preclinical dosimetry	From small to large scale	Bardiès
15:00-15:30	Monte-Carlo modelling in nuclear Medicine	Examples of MC modelling for Imaging and Dosimetry	Bardiès
15:30-16:00	General discussion - Close		All

More information on registration can be found at www.ecmp2018.org

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