

EMPIR
Joint
Research
Project

Metrology for clinical implementation of dosimetry in molecular radiotherapy

EUROPEAN WORKSHOP ON THE CLINICAL IMPLEMENTATION OF DOSIMETRY FOR MOLECULAR RADIOTHERAPY

National Physical Laboratory, Teddington, Middlesex, TW11 0LW, UK
Monday 20th -Tuesday 21st May 2019

Workshop agenda and details

THE WORKSHOP

The workshop will present the final results of the three year EMPIR funded project MRTDosimetry. New protocols for comparison of quantitative imaging and commissioning of a Molecular Radiotherapy (MRT) dose calculation platform will be presented in the context of multi-centre comparison exercises performed within the project.

The outputs from the project will be put into context with presentations covering activity measurement, quantitative imaging and dosimetry in a clinical environment, in support of clinical trials and from a commercial prospective. The latest guidance on dosimetry and quantitative imaging for MRT from the EANM, MIRD and ICRP will be presented for discussion.

REGISTRATION

The workshop is free to attend but registration is required.

Please register for the meeting at,
<https://mrt dosimetry2019.eventbrite.co.uk>

AGENDA

Day 1: Monday 20 th May 2019	
09:00	<i>Registration and Coffee (NPL Reception)</i>
10:00	Welcome TBC (National Physical Laboratory, United Kingdom) <i>(10 min)</i>
10:10	Introduction to the MRTDosimetry project and workshop Andrew Robinson - National Physical Laboratory, United Kingdom <i>(20 min)</i>
Session 1: Activity Measurement	
10:30	Primary standardisation and nuclear data for Ho-166 TBC <i>(25 min)</i>
10:55	New branching ratio for Y-90 positron emission TBC <i>(25 min)</i>
11:20	New activity transfer instrument TBC <i>(25 min)</i>
11:45	Clinical use of secondary standard ion chamber Steve Jeans – The Christie NHS Foundation Trust, United Kingdom <i>(25 min)</i>
12:10	Activity calibration for clinical trials? TBC <i>(20 min)</i>
12:30	<i>Lunch (NPL Reception)</i>
Session 2: Quantitative Imaging	
13:30	Teaching Seminar: “Calibration and verification of QI” Michael, Lassmann and Johannes Tian-Gia, University of Würzburg, Germany <i>(60 min)</i>
14:30	Monte Carlo simulation of SPECT imaging Gunjan Kayal – SCK.CEN, Belgium and INSERM, France <i>(45 min)</i>
15:15	Camera intercomparison for Lu-177 quantification in the Netherlands Steffie Peters - Radboud university medical center, The Netherlands <i>(20 min)</i>
15:35	Imaging and dosimetry for Ho-166 microspheres Gerrit van de Maat - Qirem Medical <i>(20 min)</i>
15:55	<i>Coffee break (NPL Reception)</i>
Session 3: Dosimetry for MRT	
16:30	Teaching Seminar: “Commissioning of a dosimetry platform for MRT” Jill Tipping and Nick Calvert, The Christie NHS Foundation Trust, United Kingdom <i>(60 min)</i>
17:30	Primary standard of Absorbed dose Vere Smyth - National Physical Laboratory, United Kingdom <i>(20 min)</i>
18:00	<i>Drink reception and networking at NPL</i>
19:30	<i>End of the first day</i>

Day 2: Tuesday 21st May 2019	
Session 4: Dosimetry for MRT (cont.)	
09:00	External dosimetry auditing for multicentre clinical trials Jan Taprogge - The Royal Marsden, United Kingdom <div style="text-align: right;"><i>(30 min)</i></div>
09:30	NTCP Uncertainties Maurice Cox - National Physical Laboratory, United Kingdom <div style="text-align: right;"><i>(20 min)</i></div>
09:50	Hermes Medical Solutions dosimetry systems Helena McMeekin – Hermes Medical Solutions <div style="text-align: right;"><i>(15 min)</i></div>
10:05	Dosisoft dosimetry system Sébastien Vauclin - DOSisoft <div style="text-align: right;"><i>(15 min)</i></div>
10:20	QDose dosimetry system Tobias Meyer – ABX-CRO <div style="text-align: right;"><i>(15 min)</i></div>
10:45	<i>Coffee break (NPL Reception)</i>
Session 5: International Guidelines	
11:15	EANM Mark Konijnenberg – Erasmus MC, The Netherlands <div style="text-align: right;"><i>(30 min)</i></div>
11:45	MIRD Robert Hobbs - Johns Hopkins Medicine Department of Radiation Oncology, USA <div style="text-align: right;"><i>(30 min)</i></div>
12:15	ICRP Glenn Flux - The Royal Marsden Hospital & Institute of Cancer Research, United Kingdom <div style="text-align: right;"><i>(30 min)</i></div>
13:00	<i>Lunch (NPL Reception)</i>
Session 6: Uptake of the project outputs and way forward	
14:00	Impact and uptake of the project Vere Smyth - National Physics Laboratory, United Kingdom <div style="text-align: right;"><i>(30 min)</i></div>
14:30	Database of reference images and DICOM conversion tool Jérémie Dabin, SCK.CEN, Belgium and Andrew Robinson, - National Physical Laboratory, UK <div style="text-align: right;"><i>(20 min)</i></div>
14:50	Scientific advisor comments Irène Buvat, INSERM/CEA, France Markus Luster, Department of Nuclear Medicine, University of Marburg, Germany <div style="text-align: right;"><i>(20 min)</i></div>
15:10	Roundtable discussion <div style="text-align: right;"><i>(50 min)</i></div>
16:00	End of the workshop