

MetroMRT 3rd Workshop:

Clinical implementation of dosimetry for molecular radiotherapy

National Physical Laboratory, Teddington, UK

20-21 April 2015

AGENDA:

Monday 20 April

9:00 – 9:30 Registration

Chair: Vere Smyth, NPL, UK

9:30 – 9:35 Welcome and introduction: Vere Smyth, NPL, UK

9:35 - 10:00 The MetroMRT project: towards a dosimetry protocol for MRT: Vere Smyth, NPL, UK

10:00 – 10:20 Analysis of the uncertainty in MRT dosimetry: Maurice Cox, NPL, UK

The official advice and requirements for MRT dosimetry

10:20 – 10:40 European Association of Nuclear Medicine Guidance Documents: Glenn Flux, EANM Dosimetry Committee, Royal Marsden Hospital / Institute of Cancer Research, UK

10:40 – 11:10 Coffee

Chair: Lena Johansson, NPL, UK

11:10 – 11:30 The IAEA BSS and development of an international dosimetry protocol: Gian Luca Poli, IAEA, Austria

11:30 - 11:50 Dosimetry as an element of radiation safety in nuclear medicine: Sören Mattsson, ICRP, Sweden

11:50 – 12:15 Discussion

12:15 – 13:15 Lunch

Chair: Matt Guy, University Hospital Southampton, UK

How to do it

13:15 – 13:45 Guidance for best practice from MetroMRT: Lena Johansson, NPL, UK

13:45 – 14:05 The NUKDOS software for treatment planning in MRT, Ulm, Mannheim, Würzburg: Michael Lassmann, Julius-Maximilians-University, Germany

14:05 – 14:25 Dose calculation methods: Mike Stabin, Vanderbilt University, USA

14:25 – 14:45 Lund dosimetry incorporating Biological Effective Dose: Michael Ljungberg, Lund University, Sweden

14:45 – 15:00 Discussion

15:00 – 15:30 Coffee

Chair: Mark Konijnenberg , Erasmus Medical Centre, Netherlands

- 15:30 – 15:50 Dosimetry at Royal Marsden Hospital / Institute of Cancer Research:
Glenn Flux
- 15:50 – 16:10 Dosimetry at Southampton: Matt Guy, University Hospital Southampton,
UK
- 16:10 – 16:30 Medical Device and Health software – Standards and regulations now and
in the future: Justin McCarthy, Clin Eng Consulting Ltd, UK
- 16:30 – 17:00 Discussion
- 17:00 End of day 1**

Tuesday 21 April

Chair: Michael Ljungberg, Lund University, Sweden

How to do it (continued)

- 9:30 – 9:50 Dosimetry experience at IEO, Milan: Mahila Ferrari, European Institute of
Oncology, Italy
- 9:50 – 10:10 Erasmus experience: Mark Konijnenberg , Erasmus Medical Centre,
Netherlands
- 10:10 – 10:30 Nantes experience: Ludovic Ferrer, Nantes Regional Cancer Institute,
France
- 10:30 – 10:45 Discussion

10:45 – 11:15 Coffee

Chair: Andy Fenwick, NPL, UK

What MRT dosimetry software is available commercially?

- 11:15 – 11:45 GE Healthcare: David Whalley
- 11:45 – 12:15 Philips: Alexander Fischer
- 12:15 – 12:45 Hermes: Sofia Bertling

12:45 – 13:45 Lunch

Chair: Glenn Flux, Royal Marsden Hospital / Institute of Cancer Research, UK

The way forward?

- 13:45 – 14:15 Dose escalation clinical trials: Prakash Manoharan, Christie, UK
- 14:15 – 14:45 Experience with a dosimetry-based PRRT trial at Reggio Emilia: Annibale
Versari, Santa Maria Nuova Hospital, Italy
- 14:45 – 15:15 Dosimetry requirements and QA in a clinical trial: Elizabeth Miles, NCRI
Radiotherapy Trials QA Group, UK
- 15:15 – 15:35 Basic Safety Standard Directive 2013/59/Euratom Article 56 –
background, intentions and implications for UK transposition and
implementation: Steve Ebdon-Jackson, Public Health England, UK

Chairs: Vere Smyth and Lena Johansson, NPL, UK

15:35 – 16:00 Roundtable discussion and conclusions

16:00 End of workshop