

# Imaging in Radiotherapy

29<sup>th</sup> November 2022 – Society of Chemical Industry, London

09:55 – 10:00 **Welcome and Introduction**

**Session 1 – Chair: Gail Johnston, Belfast Health and Social Care Trust**

10:00 – 10:30 **Collaborative roles of the multi-disciplinary team in Radiotherapy Imaging**

Tim Wood, Hull University Teaching Hospitals NHS Trust

10:30 – 11:00 **Patient Safety in Radiotherapy Imaging**

Una Findlay, UKHSA

11:00 – 11:20 **Coffee**

**Session 2 – Chair: Tim Wood, Hull University Teaching Hospitals**

11:20 – 11:50 **Paediatric Imaging in Radiotherapy**

Abigail Bryce-Atkinson, University of Manchester

11:50 – 12:10 **Improving the quality of head and neck radiotherapy CT planning images by utilising a second image reconstruction set with reduced field of view and optimised reconstruction kernel.**

Anne Davis, Portsmouth Hospitals University NHS Trust

12:10 – 12:30 **Introducing AiCE Deep Learning Reconstruction Algorithm into a Radiotherapy Workflow**

Jonathan Allred, Nottingham University Hospitals NHS Trust

12:30 – 12:50 **Validity of Regular CBCT Commissioning Tests for use with Extended CBCT for a Varian TrueBeam® Linear Accelerator**

Adam Brooks, Royal Devon University Healthcare NHS Foundation Trust

12:50 – 13:30 **Lunch**

**Session 3 – Chair: Christina Agnew, Belfast Health and Social Care Trust**

13:30 – 14:00 **Working Party Updates: CBCT survey and CT planning DRLs**

Tim Wood, Hull University Teaching Hospitals

14:00 – 14:20 **4D CBCT Optimisation**

Abigail Bryce-Atkinson, University of Manchester

14:20 – 14:40 **CBCT optimization on the Halcyon/Ethos platform**

David Carnegie, NHS Grampian

14:40 – 14:55 **Coffee**

**Session 4 – Chair: TBC**

14:55 – 15:15 **Evaluation of Optimisation Methods for Pelvis CBCT**

Alison Cole, Cheltenham General Hospital

15:15 – 15:35 **Impact of IGRT protocols on imaging dose for radiotherapy patients over ~20 years**

Chris Hayes, Belfast Health and Social Care Trust

15:35 – 15:55 **Investigations into DirectDensity™: a Novel CT Reconstruction algorithm that allows image acquisition at multiple kVp for treatment planning**

Rachael Tulip, The Newcastle Upon Tyne Hospitals NHS Foundation Trust

15:55 – 16:15 **Standardisation and Optimisation of Paediatric kV Planar Imaging Protocols on Varian TrueBeam Linacs**

Christina Agnew, Belfast Health and Social Care Trust

16:10 – 16:30 **Roundtable Q&A**

16:30

**Close**

*Organised by IPEM's Diagnostic Radiology and  
Radiotherapy Special Interest Groups  
Programme subject to change*

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