New developments in radiotherapy quality assurance
Tuesday 7th November 2017, County Hotel, Newcastle-upon-Tyne

FINAL PROGRAMME

09:00 – 09:30 Coffee and registration
Session 1: New approaches to QA
  Chair: Steve Weston
09:30 – 09:45 Introduction
09:45 – 10:30 IPEM 81 Update – Physics aspects of QC in RT
  Invited Speaker: Imran Patel, The Christie NHS Foundation Trust
10:30 – 10:45 Novel QA in the era of frameless intracranial stereotactic radiosurgery with the new Icon™-model Gamma Knife®
  Gavin Wright, St. James’s University Hospital, Leeds
10:45 – 11:00 Clinical Impact of Treatment Machine Daily Output Variation
  Matthew Bolt, Royal Surrey County Hospital
11:00 – 11:15 Quality Assurance of FFF beams: are Flattened Beam Methods and Equipment Transferrable?
  Natalie Thorp, Lancashire Teaching Hospitals NHS Foundation Trust
11:15 – 11:45 Coffee
Session 2: VMAT QA
  Chair: Linda Carruthers
11:45 – 12.00 In-vivo EPID dosimetry for IMRT treatments based on Varian through-air predicted portal dose algorithm at fixed source to imager distance
  Maan Najem, The Royal Marsden NHS Foundation Trust
12.00 – 12.15 Statistical analysis of VMAT plan complexity using MCS for three anatomical sites
  Polly E Darby, Aberdeen Royal Infirmary
12.15 – 12.30 Developing a new Patient Specific QA (PSQA) technique for the verification of Stereotactic Radiosurgery (SRS) treatments
  Anna Bangiri, Nottingham University Hospitals NHS Trust
12.30 – 12.45 Questions and Discussion
12.45 – 13.45 Lunch
Session 3: QA Management
  Chair: John Byrne
13.45 – 14.30 TG100 – Risk based RT Quality Management
  Invited speaker: Prof Peter Dunscombe, Alberta Health Services, Calgary
14.30 – 14.45 The Benefits of a Network Wide Approach to Linac Quality Control
  Rob Brackenridge, Carlisle Infirmary
14.45 – 15.00 A review of the implementation and use of QATrack+, an open source QC database for Radiotherapy Clinics
  Thomas Burrows, HCA Healthcare UK
15.00 – 15.15 QATrack+ implementation as evolution from paper-based to paper-light
  Rollo Moore, Royal Marsden NHS Foundation Trust
15.15 – 15.30 Comparison of Mobius Doselab Pro with Elekta ACAL for Linac QA using EPID images
  Dr Ruth Harding, Singleton Hospital, Swansea
15.30 – 16.00 Coffee
Session 4: MR & EPID Use
  Chair: Graham Freestone
16.00 – 16.15 Improving the efficiency and accuracy of radiotherapy MR quality assurance in preparation for MR-only radiotherapy planning
  Jonathan Wyatt, Newcastle upon Tyne Hospitals NHS Foundation Trust
16.15 – 16.45 Developing a Quality Assurance Program for a High-Field MR Linac
  Dr James Agnew, The Christie NHS Foundation Trust
  Dr Ian Hanson, Royal Marsden NHS Foundation Trust
16.45 – 17.00 EPID based In-vivo dosimetry - The ultimate QA tool?
  Dr Steve Weston, Leeds Teaching Hospitals NHS Trust
17.00 – 17.15 Commissioning and experience of using Truebeam’s Machine Performance Check application
  Gary Barfield, United Lincolnshire Hospitals NHS Trust
17.15 – 17.30 Prize-giving and closing remarks

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POSTERS

1 Management of Radiotherapy QA Data: Our First Experience in the Implementation of a Commercial Paperless QA System
Dr Ashraf Esmail, Leeds Teaching Hospitals NHS Trust

2 Questioning the Validity of Pre-Treatment Patient Specific QA
Will Holmes-Smith, Norfolk & Norwich University Hospital Foundation Trust

3 Quick assessment of mechanical isocentre
Daniel Johnson, James Cook University Hospital, Middlesbrough

4 A Paperless Dosimetry QA System: three years of experience
Dr Mohamed Metwaly, United Lincolnshire Hospitals NHS Trust

5 An analysis of a variety of Patient Specific QA equipment to determine which is the most suitable approach to PSQA in a new Radiotherapy Department
Eoin O’Hare, Altnagelvin Hospital, Western Health & Social Care Trust

6 Presenting an in-house, automated and efficient film analysis technique for the pre-treatment verification of stereotactic radiosurgery (SRS) brain treatments
Jonathan Sutton, Nottingham University Hospitals NHS Trust

7 Improvement of off-axis SABR plan verification results by using adapted dose reconstruction algorithms for the Octavius4D system
Prakash Jeevanandam, Belfast Health and Social Care Trust

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