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IGRT IN CONTEMPORARY RADIOTHERAPY

Venue: Hallam Conference Centre, London

CPD: 4 CREDITS



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Image-guided radiotherapy (IGRT) tools and protocols have changed considerably in recent years, with increasing use of volumetric and online IGRT techniques. This event will provide radiotherapy professionals with the information they need to understand best practice in the application of clinical IGRT. Image-guidance protocols for common clinical sites will be discussed and the evolving role of adaptive radiotherapy techniques described.

Where daily online IGRT is in use, the accepted methodology for margin calculation can be difficult to apply. We will present the new report from the BIR into this topic, and discuss how residual errors such as delineation error, deformation error, rotational variation, matching error amongst others can be measured and incorporated into a CTV-PTV margin formula.

Educational aims

- To understand the basics of operation of common online imaging techniques
- To review the current state of adaptive radiotherapy in clinical practice, and how this may be expected to develop
- To discuss IGRT protocols for common clinical sites
- To understand recommendations of the BIR geometric uncertainties working party, in particular how to quantify the magnitude of residual geometric uncertainties in daily online IGRT

09:30 **Registration and refreshments**

09:50 **Welcome and introduction**
Sam Tudor, Consultant Clinical Scientist, University Hospitals Birmingham NHS Foundation Trust

10:00 **An introduction to IGRT in modern radiotherapy**
Mike Kirby, Lecturer (Radiotherapy Physics) and Director of Studies (MSc in Radiotherapy), University of Liverpool

10:35 **The clinical use of IGRT in prostate radiotherapy**
Ann Henry, Consultant Clinical Oncologist, Leeds Teaching Hospitals NHS Trust

10:55 **Breast IGRT; clinical recommendations**
Sri Kumar and Emma Thomas, Consultant Clinical Oncologist, Leeds Teaching Hospitals NHS Trust

11:15 **Refreshments**

11:45 **The use of IGRT in lung SABR**
Karen Moore, Consultant Radiographer in Lung, Beatson West of Scotland Cancer Centre

12:10 **Training requirements for the clinical provision of IGRT**
Sophie Alexander, IGRT Specialist Radiographer, The Royal Marsden NHS Foundation Trust

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- 12:30** **Experience of SGRT in tattooless breast radiotherapy**
Ben Allen, Technical Lead Radiographer, University Hospitals Birmingham NHS Foundation Trust
- 12:45** **Lunch**
- 13:45** **Adaptive techniques in clinical radiotherapy**
Helen McNair, Lead Research Radiographer, The Royal Marsden NHS Foundation Trust
- 14:15** **BIR report – determination of residual errors in daily online IGRT**
David Bernstein, Radiotherapy Physicist, The Royal Marsden NHS Foundation Trust; and Sam Tudor, Consultant Clinical Scientist, University Hospitals Birmingham NHS Foundation Trust
- 15:00** **Refreshments**
- 15:30** **Incorporation of errors into CTV-PTV margin calculations**
Marcel Van Herk, Chair in Radiotherapy Physics, University of Manchester
- 16:10** **Clinical examples of margin determination**
Simon Thomas, Head of Radiotherapy Physics, Cambridge University Hospitals NHS Foundation Trust
- 16:40** **Close of event**

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Programme Organiser

Sam Tudor, Consultant Clinical Scientist, University Hospitals Birmingham NHS Foundation Trust

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44 Hallam Street
London W1W 6JJ

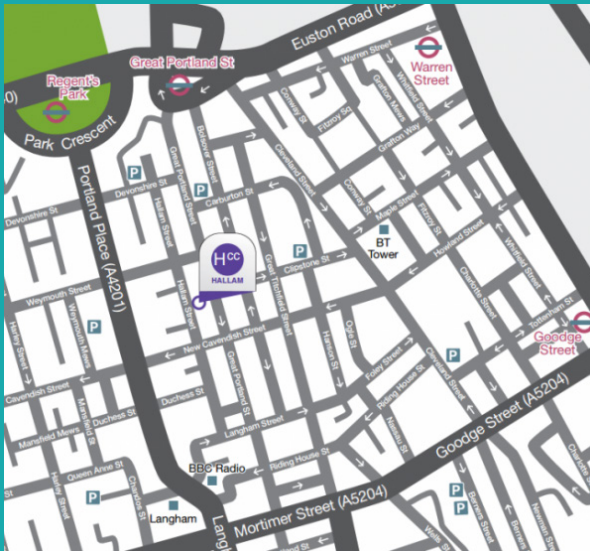
BY LONDON UNDERGROUND - GREAT PORTLAND STREET:
(Circle, Hammersmith & City, Metropolitan) - On leaving the station walk south down Great Portland Street away from the Marylebone Road. At the traffic lights, cross over to the right hand side of the street and continue down the road. Turn right into Devonshire Street and immediately left into Hallam Street at The Masons Arms. Continue down this road on the left hand side. Cross Weymouth Street and continue along Hallam Street. You will then shortly arrive at Number 44 and the entrance to The Hallam.

BY TRAIN:
Marylebone, Euston and Kings Cross St Pancras Stations are all within 10 minute taxi rides or alternatively 15 minutes by Underground. Paddington Station (which has a direct link to Heathrow every 15 minutes) is 20 minutes walk or 10 minutes in a taxi.

BY BUS:
There are many buses stopping within a few minutes walk of Hallam Street including No's: 3 6 8 10 12 13 15 23 25 73 88 94 98 113 137 139 159 189 453 C2

BY CAR:
To plan your journey by car visit The AA's Route Planner and enter the postcode: W1W 6JJ. Please note that this venue is within the Congestion Charge zone. The nearest NCP car park is at 6-7 Weymouth Mews.

BY LONDON CYCLE SCHEME
The nearest "Boris Bike" docking station is Portland Place Marylebone.



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