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Oncology Imaging Systems

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	10:55	Breast IGRT; clinical recommendations Sri Kumar and Emma Thomas, Consultant Clinical Oncologist, Leeds Teaching Hospitals NHS Trust
09:50	Welcome and introduction Sam Tudor, Head of Dosimetry, University Hospitals Birmingham NHS Foundation Trust	11:15	Refreshments
10:00	An introduction to IGRT in modern radiotherapy Mike Kirby, Lecturer (Radiotherapy Physics) and Director of Studies (MSc in Radiotherapy), University of Liverpool	11:45	The use of IGRT in lung SABR Speaker to be confirmed
10:35	The clinical use of IGRT in prostate radiotherapy Ann Henry, Consultant Clinical Oncologist, Leeds Teaching Hospitals NHS Trust	12:10	Training requirements for the clinical provision of IGRT Sophie Alexander, IGRT Specialist Radiographer, The Royal Marsden NHS Foundation Trust
		12:30	Lunch

This course provides 4 CPD credits in accordance with the CPD Scheme of the Royal College of Radiologists

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| 13:30 | Adaptive techniques in clinical radiotherapy
Speaker to be confirmed |
| 14:00 | Determination of residual errors in daily online IGRT
David Bernstein, Radiotherapy Physicist, The Royal Marsden NHS Foundation Trust;
and Sam Tudor, Head of Dosimetry, University Hospitals Birmingham NHS Foundation Trust |
| 14:45 | Refreshments |
| 15:15 | Incorporation of errors into CTV-PTV margin calculations
Marcel Van Herk, Chair in Radiotherapy Physics, University of Manchester |
| 15:55 | Clinical examples of margin determination
Simon Thomas, Head of Radiotherapy Physics, Cambridge University Hospitals NHS Foundation Trust |
| 16:20 | Close of event |

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Programme Organiser

Sam Tudor, Head of Dosimetry, University Hospitals Birmingham NHS Foundation Trust

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44 Hallam Street
London W1W 6JJ

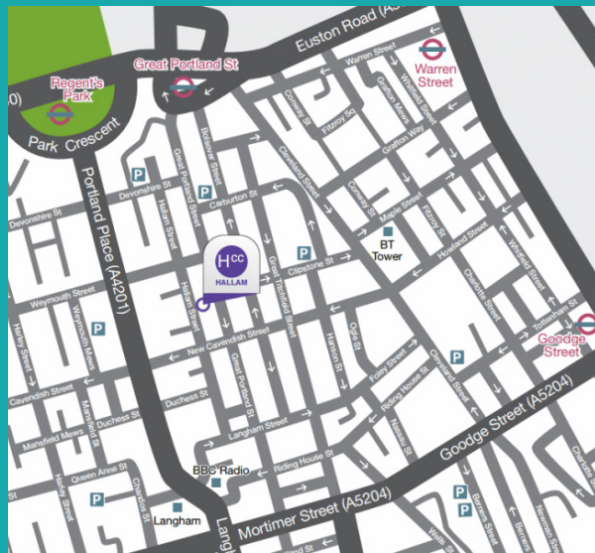
BY LONDON UNDERGROUND - GREAT PORTLAND STREET:
(Circle, Hammersmith & City, Metropolitan) - On leaving the station walk south down Great Portland Street away from the Marylebone Road. At the traffic lights, cross over to the right hand side of the street and continue down the road. Turn right into Devonshire 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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