

## Fees, booking and registration form

Thursday 5th to Saturday 7th February 2015. The cost is £500 per person (£50 for RMH/ICR staff). A special offer of £1200 is available to cover a team of 3 participants from the same centre, in which case each team member should complete a registration form and the 3 forms should be sent together. (Please photocopy this form if necessary).

**Name**

**Organisation**

**Speciality:** Physicist / Oncologist / Radiographer / Other

**Which linac would you use for IGRT and/or IMRT?**

Elekta / Siemens / Varian (please circle)

**Oncologists, which clinical site would you prefer for the contouring sessions on Saturday**

**Which device(s) would you use for IGRT (please specify)**

**Which TPS would you use for IMRT / VMAT (please specify)**

**Do you use VMAT/ RAPIDARC /OTHER (please specify)**

**Address**

Postcode (UK)

**Telephone/Fax**

**Email**

I would like to attend the IGRT/IMRT Course. I enclose a cheque for the full amount of £..... payable to: The Royal Marsden NHS Foundation Trust

Or please invoice (please give the exact contact information to secure your booking)

**Venues:** The lectures and demonstrations for days 1 & 2 are in The Royal Marsden Conference Centre, Stewart's Grove, London SW3 6JJ. The clinical outlining sessions will be held in London on the Saturday. The physics and radiographer practical sessions on Day 3 will be carried out on Elekta and Varian machines at the Sutton and London branches of The Royal Marsden respectively. Transport to and from Sutton will be provided.

Please fax/email/post completed form, and forward your payment invoice info to: The Course Secretary, Physics Department, The Royal Marsden NHS Foundation Trust, Fulham Road, London SW3 6JJ

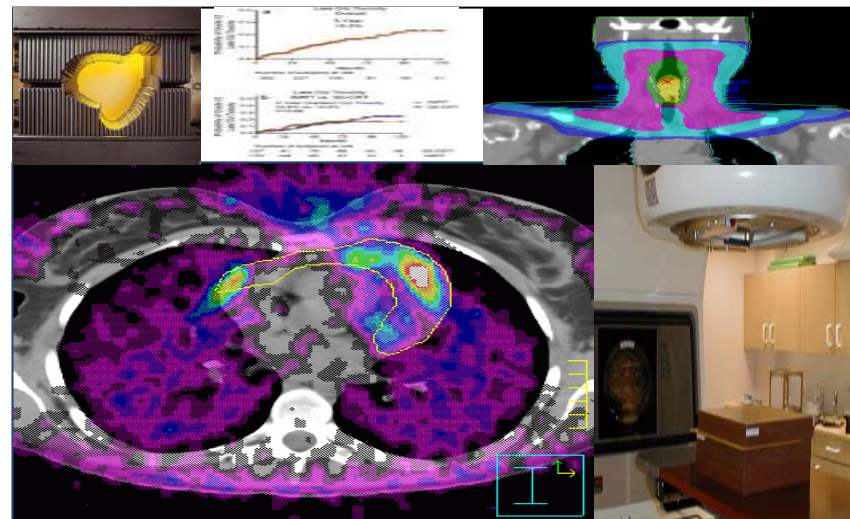
Tel.+44 (0)207 808 2501; Fax+44(0)2078082522

Email: [sandra.poku@rmh.nhs.uk](mailto:sandra.poku@rmh.nhs.uk)

[www.icr.ac.uk/igimrt](http://www.icr.ac.uk/igimrt)

The ROYAL MARSDEN  
NHS Foundation Trust

ICR The Institute of  
Cancer Research



## Image Guided and Intensity Modulated Radiotherapy In Clinical Practice

**Thursday 5<sup>th</sup> to Saturday 7<sup>th</sup> February 2015**

Departments of Physics and Radiotherapy,  
The Royal Marsden NHS Foundation Trust and  
The Institute of Cancer Research

Awarded 18 Category I CPD Credits from The Royal College Radiologists

## Introduction

This 3 day course is designed to help clinicians, physicists and radiographers develop programmes for the clinical implementation of image guided and intensity modulated radiotherapy.

The course has been awarded 18 RCR Category I CPD credits from The Royal College of Radiologists and in 2013 was awarded 20 CPD credit-points from The European Federation of Organisations for Medical Physics. The curriculum covers many practical aspects and includes hands-on practical outlining sessions, QA and dosimetry.

We recommend a team of oncologist, physicist and radiographer from the same centre attend together.

Included in the cost of the course are a set of lecture notes, a CD of the presentations, lunches, refreshments, cheese and wine, and a course dinner on the evening of Thursday 5th February.

## Provisional programme

### Day One (Thursday 5th February)

- Future Developments in Advanced Radiotherapy
- Multimodality imaging for radiotherapy
- MRI in radiotherapy
- Implementation of IMRT and IGRT
- Topical Radiobiological considerations in IMRT
- Dose constraints and toxicity modeling
- Forward and inverse planned IMRT
- VMAT and Rapid Arc: can they replace IMRT?
- 2D Verification + Matching – KV vs MV Exactrac
- 3D Verification – Conebeam CT + volumetric matching
- Marker based tracking: current and novel techniques
- Breathing related problems
- Adaptive radiotherapy
- Course Dinner

### Day Two (Friday 6th February)

- Head and neck clinical trials ( IMRT and adaptive planning)
- Breast Clinical Trials
- QA of MLC's for IMRT techniques
- Patient specific QA (EPID dosimetry) and streamlining the process
- Independent MU checks for IMRT
- Lung clinical trials
- Prostate clinical trials
- Liver and Oesophagus clinical cases
- ICRU margins and volumes

- Selection and delineation of target volumes Commissioning essentials
- Discussion
- Cheese and wine

### Day Three (Saturday 7th February) - till 1.00pm

- Practical workshops where participants will be given the opportunity to gain hands-on experience of volume and OAR localisation and definition, contouring, planning techniques, immobilization and patient set-up verification.
- Guidance for developing protocols for outlining and dose Constraints for Head & Neck, Lung, Liver, Pelvis, Breast and Gynae by experienced users ( oncologists, physicists) will be available
- Practical sessions on QA covering pre-treatment and on treatment procedures - from the TPS to the linac and patient: including patient to phantom dosimetry; fluence verification; dosimetric verification; patient setup and verification using cone beam, KV; linac, MLC and Cone beam and ExacTrac device QA.

### External speakers

Dr Viv Cosgrove, St James's Institute of Oncology, Leeds

Teaching Hospital Trust

Professor Roger Dale

Professor Phil Evans, University of Surrey, Guildford

Dr Kevin Franks, St James's Institute of Oncology, Leeds Teaching Hospital Trust

Dr Maria Hawkins, Gray Institute for Radiation Oncology and Biology

Mr Andy Poynter, Peterborough and Stamford Hospitals NHS

Foundation Trust

Dr Mike Partridge, Gray Institute for Radiation Oncology and Biology

Dr Carl Rowbottom, Christie Hospital, Manchester

Dr Chris South, Royal Surrey County Hospital, Guildford

### *Special Guest Speaker*

**Professor Vincent Gregoire St-Luc University Hospital, Brussels, Belgium**

### RMH/ICR course faculty

Dr James Bedford, Ms Margaret Bidmead, Professor David Dearnaley Dr

Sarah Gulliford, Dr Vibeke Nordmark Hansen, Dr Vincent Khoo and Dr

Anna Kirby Professor Martin Leach, Dr Helen McNair,

Professor Chris Nutting, Professor Uwe Oelfke

### Course organizers

Ms Margaret Bidmead, Dr Vibeke Hansen, Dr Helen McNair