

# Radiotherapy Imaging User Group

**Second Annual Meeting – Friday 19<sup>th</sup> February 2010**  
**Gray Institute for Radiation Oncology and Biology, Oxford**

*09:00 Registration – Tea & Coffee*

**09:45 Welcome & introduction**

Andrew Reilly & Louise Drummond, Oxford Cancer Centre

## **Session 1: Pre-Treatment Imaging**

**10:00 Implementation of 3D imaging using MRI and CT for HDR brachytherapy**  
Gary Liney, Queens Centre for Oncology, Hull

**10:20 Multi-modality image fusion for target delineation and re-planning**  
Sam Gardner, Oxford Cancer Centre

**10:40 Preliminary study of functional MR methods for radiotherapy planning in the prostate**  
Geoffrey Payne, Institute for Cancer Research and Royal Marsden Hospital

*11:00 Break – Tea & Coffee*

## **Session 2: On Treatment Imaging**

**11:30 Radiotherapy imaging at NNUH**  
Mark Gilham, Colney Centre, Norwich

**11:50 2D planar imaging versus 3D cone-beam CT for image-guided head and neck radiotherapy**  
Ros Perry, Ipswich

**12.10 Implementation of evidence-based best practice for imaging in a new radiotherapy department**  
Jeanette Bowes-Cavanagh, The Beacon Centre, Taunton

**12:30 Imaging for lung SBRT**  
Helen Summers, St James Institute for Oncology, Leeds

**12:50 An audit of frequency and causes of radiotherapy plan adaptation as a result of X-ray volumetric imaging**  
Sheena Chauhan, The Christie NHS Foundation Trust, Manchester

*13:10 Lunch*

### **Session 3: Set-up Errors and QA**

- 14:00 **Automatic extraction and analysis of patient set-up errors**  
Andrew Reilly, Oxford Cancer Centre
- 14:20 **Quality assurance of kilovoltage imaging on a linear accelerator**  
Gary Liney, Queens Centre for Oncology, Hull
- 14:40 **A new daily check device for electronic portal imaging**  
Andrew Reilly, Oxford Cancer Centre
- 15:00 **Investigating image registration with cone-beam CT in radiotherapy**  
Frances Orrell, University Hospital Birmingham

*15:20 Break – Tea & Coffee*

### **Session 4: Emerging and Novel RT Imaging**

- 15:50 **Pre-clinical functional imaging**  
Kate Vallis, Gray Institute for Radiation Oncology and Biology, Oxford
- 16:10 **Functional MRI**  
Cynthia Eccles, Gray Institute for Radiation Oncology and Biology, Oxford
- 16:30 **4DUS tracking of abdominal organ motion during therapy**  
Emma Harris, Institute of Cancer Research and Royal Marsden Hospital

*16:50 Close*