



# Adaptive Radiotherapy

*Part of The Christie Advanced Radiotherapy Summer School*

**Tuesday 12th July 2016**

Education Centre (Dept 17), The Christie, Manchester, M20 4BX

## Keynote speakers

Professor Robert Jeraj  
University of Wisconsin

Professor Robert Huddart  
Institute of Cancer Research & The Royal  
Marsden

Professor Marcel van Herk  
University of Manchester & The Christie

## Further Information

Fee	<b>£495 (whole week) or £150 per day</b> Reduced rates for Christie staff
Visit	<b><a href="http://christie.nhs.uk/SoO">christie.nhs.uk/SoO</a></b>
Register	<b><a href="http://adv-radiotherapy.eventbrite.co.uk">adv-radiotherapy.eventbrite.co.uk</a></b>
Email	<b><a href="mailto:education.events@christie.nhs.uk">education.events@christie.nhs.uk</a></b>
Call	<b>0161 918 7409</b>
Connect	<b>@TheChristieSoO</b>

## Social Event

There will be the opportunity for delegates to attend a tour of Holts Brewery in the evening and network in more informal surroundings (Free for whole week attendees. £20 for day delegates)

## Target Audience

The course is deliberately aimed at a wide audience: radiographers, medical physicists and clinicians as well as those from a more academic environment who wish to learn more about this subject

**Day endorsed by The Royal College of Radiologists for 7 CPD credits**

## 08.00 Registration & coffee

### *Imaging Focus*

**Chair: Professor Marcel van Herk**

Chair in Radiotherapy Physics, The Christie

**08.30** Plenary lecture - Biologically adaptive RT  
**Professor Robert Jeraj** - Professor of Medical Physics, Human Oncology, Radiology and Biomedical Engineering, University of Wisconsin

**09.20** The role of MR in radiotherapy  
**Dr Lucy Kershaw** - Principal Clinical Scientist, The Christie

**09.40** 4D CT and radiotherapy  
**Matt Lowe** - Senior Clinical Scientist, The Christie

**10.00** PET for radiotherapy  
**Dr Peter Julyan** - Consultant Clinical Scientist, The Christie

**10.20** The MR Linac  
**Dr Alan McWilliam** - Principal Clinical Scientist, The Christie

**10.40** Panel discussion

## 11.00 Coffee break

### *Clinical Focus*

**Chair: Dr Ananya Choudhury**

Consultant in Clinical Oncology, The Christie

**11.20** Artforce adaption on CT, PET based planning  
**Dr Frances Charwood** - Clinical Scientist, The Christie

**11.40** Adaptive H&N radiotherapy and parotid sparing  
**Dr David Thomson** - Consultant in Clinical Oncology, The Christie

**12.00** Clinical applications for adaptive radiotherapy in Bladder Cancer  
**Professor Robert Huddart** - Professor of Urological Cancer & Honorary Consultant, Institute of Cancer Research & The Royal Marsden

**12.20** Adaptive strategies in a clinical radiotherapy department  
**Speaker to be confirmed**

**12.40** Panel discussion

## 13.00 Lunch

**13.45** **Workshop 1) Choose one of the following three workshops to attend:**

A) MR Linac: explanation of workflow

**Ryan Young** - Radiotherapy Engineer, The Christie

**Julie Stratford** - Trial Research Radiographer, The Christie

B) Plan selection/when to adapt

**Helen Brinkley** - Superintendent Radiographer, The Christie

**Phil Whitehurst** - Head of Treatment Planning, The Christie

C) Adaptive RT and deformable registration

**Dr Alan McWilliam** - Principal Clinical Scientist, The Christie

**14.30** **Workshop 2) Choose one workshop (A, B, or C) to attend**

## 15.15 Coffee break

### *Future Directions*

**Chair: Dr Ranald Mackay**

Director of Physics and Technical Lead for Protons, The Christie

**15.45** Debate: This house believes that MR Linac will make protons obsolete  
For: **Professor Marcel van Herk** - Chair in Radiotherapy Physics, The Christie  
Against: **Professor Karen Kirkby** - Richard Rose Chair in Proton Therapy Physics, The Christie

## 16.45 Finish (bus to brewery tour at 5pm)

**19.00** Optional social evening touring Holts Brewery (email [education.events@christie.nhs.uk](mailto:education.events@christie.nhs.uk) for more information)

**Location: Holts Brewery, Empire Street, Manchester, M3 1JD**

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