



08.45 Registration & coffee

09.15 Welcome

Clinical focus

Chair: Prof Ranald Mackay

Director of Physics and Technical Lead for Protons, The Christie

09.30 Update of UK PBT service

Dr Ed Smith - Consultant in Clinical Oncology and Clinical Lead for Protons, The Christie

10.10 Model based selection of patients for proton beam therapy

Thomas Mee - Research Associate, The Christie

10.40 Coffee break

11.10 Case mix experience of a European proton centre

Dr Tony Lomax - Chief Medical Physicist, Paul Scherrer Instituta, Switzerland

11.40 Clinical trials in PBT

Prof Neil Burnet - Professor in Radiation Oncology, University of Manchester

12.15 Lunch

Physics/technical focus

Chair: Dr Julia Handley

Head of Radiotherapy Physics, The Christie

13.00 Adaptive Proton Therapy

Dr Tony Lomax - Chief Medical Physicist, Paul Scherrer Instituta, Switzerland

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13.30 Basic physics and the related equipment choices for a national service

Dr Adam Aitkenhead - Research Scientist, The Christie

13.50 Commissioning and QA of PBT equipment

Imran Patel - Team Leader, Oldham Radiotherapy Physics

14.20 PBT treatment planning

Dr Matt Lowe - Principal Research Scientist, The Christie

14.50 Move to workshop

15.00 Workshop (select 1 option)

A) PBT operational aspects

Hazel Pennington - Lead Radiographer Proton Therapy Project, The Christie

Thomas Edwards - Pre-Treatment Principal Radiographer, The Christie

B) Proton radiobiology

Amy Chadwick - Research Associate, The Christie

C) Tour of the Proton Therapy Centre (max 25)

15.45 Coffee break

Future Directions

Chair: Professor Ranald Mackay

Director of Physics and Technical Lead for Protons, The Christie

16.00 Proton radiotherapy research

Professor Neil Burnet - Professor in Radiation Oncology, University of Manchester

Professor Karen Kirkby - Chair in Proton Therapy Physics, University of Manchester

16:30 Debate—This house believes we should plan treatments with variable RBE

Professor Karen Kirkby - Chair in Proton Therapy Physics, University of Manchester

Tony Lomax - Chief Medical Physicist, Paul Scherrer Instituta, Switzerland

16.55 Finish

17.15 Travel to social

Junkyard Golf Club

Location: Unit 1, First Street, Manchester, M15 4FN



08.45 Registration & coffee

Clinical focus

09.15 Welcome

Chair: Dr Julia Handley

Head of Radiotherapy Physics, The Christie

09.30 Plenary lecture: National Programme for SABR and case based discussion

Dr Fiona McDonald - Consultant Thoracic Clinical Oncologist, The Royal Marsden

10.00 Extra cranial overview

Dr Ganesh Radhakrishna - Consultant in Clinical Oncology, The Christie

10.30 SRS in brain metastasis

Dr Rovel Colaco - Consultant in Clinical Oncology, The Christie

11.00 Panel discussion

11.15 Coffee break

Technical focus

Chair: Professor Karen Kirkby

Richard Rose Chair in Proton Therapy Physics, The Christie

11.30 Planning challenges of oligamets

Phil Whitehurst - Head of Treatment Planning, The Christie

12.00 SRS/SABR and the linear accelerator

Dr Julia Handley - Head of Radiotherapy Physics, The Christie

12.30 Lunch

13.35 Use of technology in stereotactic planning and dosimetric precision

Dr Geoff Heyes - Principal CyberKnife Physicist, Queen Elizabeth Hospital Birmingham

14.05 Gamma knife radiosurgery techniques

Peter Bownes - Deputy Head of Radiotherapy Physics. Head of Brachytherapy and Gamma Knife Physics at St James's University Hospital, Leeds

14.30 Panel discussion

14.40 Workshop (select 1 option)

A) Lung SABR based discussion

Professor Corinne Faivre-Finn - Professor of Thoracic Radiation Oncology, University of Manchester
Catherine Harris - Clinical Scientist, The Christie
Clare Triffit - Superintendent Radiographer, The Christie

B) Cranial SRS case based discussion

Dr Catherine McBain - Consultant in Clinical Oncology, The Christie

Laura Allan - SRS Specialist Radiographer, The Christie

Phillip Cooper - Radiotherapy Physics Satellite Team Leader, The Christie

C) Tour of the Proton Therapy Centre (max 25)

15.40 Coffee break

Future Directions

Chair: Dr Ananya Choudhury

Reader and Consultant in Clinical Oncology, University of Manchester

15.50 Debate: Topic TBC

Dr Fiona McDonald - Consultant Thoracic Clinical Oncologist, The Royal Marsden

Professor Corinne Faivre-Finn - Professor of Thoracic Radiation Oncology, University of Manchester

16.50 Finish

18.30 Travel to social

Walking science tour followed by dinner at Pie & Ale
Location: St Ann's Square, Manchester City Centre, M2 7LF

Schedule - Novel & Specialised Radiotherapy (20th Jun)

The Christie
School of Oncology



All presentations will take place in the Auditorium unless otherwise specified

08.45 Registration & coffee

09:15 Welcome

Imaging focus

Chair: Steve Bolton

Deputy Head of Radiotherapy Physics, The Christie

09.30 The role of morphological and functional imaging in radiotherapy

Dr Prakash Manoharan - Consultant in Radiology, The Christie

10.00 The role of MR in radiotherapy

Michael Dubec - MR Clinical Scientist, The Christie

10.20 New dose symmetry with radioisotopes

Jill Tipping - Medical Physicist, The Christie

10.40 Managing hypoxia

Prof Catharine West - Professor of Radiation Biology, University of Manchester

11.00 Extended breath hold and breathing on oxygen

Dr Mike Parkes - Senior Lecturer, University of Birmingham

11.20 Coffee break

Big data focus

Chair: Marianne Aznar - Senior Lecturer at University of Manchester, The Christie

11.45 Learning from every patient

Dr Alan McWilliam - Principal Clinical Scientist, The Christie

12.15 The theragnostics approach to predictive modelling

Dr Gareth Price - Principal Clinical Scientist, The Christie

12.35 Plenary lecture: Big data revolution in radiotherapy

Prof Marcel van Herk - Chair in Radiotherapy Physics, University of Manchester

13.15 Lunch

14.00 Workshop (select 1 option)

A) Tour of MR Linac & explanation of workflow

Meet at registration desk

Ryan Young - Radiotherapy Engineer, The Christie

B) VHEE therapy

Prof Ran Mackay - Director of Physics and Technical Lead for Protons, The Christie

C) Novel brachytherapy indications

Prof Peter Hoskin - Professor in Clinical Oncology, University College London

15.00 Coffee break

The big debate

Chair: Professor Ranald Mackay - Director of Physics and Technical Lead for Protons, The Christie

15.15 Novel agents in radiotherapy

Dr Ananya Choudhury - Reader and Consultant in Clinical Oncology, University of Manchester

15.45 Debate: This house believes that every department needs at least one MR Linac

16.45 Finish

18.00 Travel to social

Location: Course dinner, Sangam Restaurant Didsbury

Schedule – Adaptive Radiotherapy (21st June)

The Christie
School of Oncology



All presentations will take place in the Auditorium unless otherwise specified

08.45 Registration & coffee

09:15 Welcome

MR guided radiotherapy focus

Chair: Professor Marcel van Herk

Chair in Radiotherapy Physics, University of Manchester

09.30 Plenary lecture: biologically adaptive radiotherapy

Professor Peter Hoskin - Professor in Clinical Oncology, University College London

10.00 Adaptive radiotherapy workflow

Julie Webb - Principal Radiographer, The Christie

10.20 The role of advanced MR techniques in therapy

Speaker to be confirmed

11.00 Coffee break

Adaptive radiotherapy focus

Chair: Professor Corinne Faivre-Finn

Professor in Thoracic Radiation Oncology, University of Manchester

11.30 Adaptive radiotherapy in bladder

Professor Robert Huddart - Professor and Honorary Consultant in Urological Oncology, The Institute of Cancer Research

12.00 Adaptive radiotherapy in head & neck

Speaker to be confirmed

12.30 Lunch

13.30 Workshop 1)

A) Tour of MR Linac & explanation of workflow

Meet at registration desk

Ryan Young - Radiotherapy Engineer, The Christie

B) Reactive Imaging Strategies

Claire Triffitt - Superintendent Radiographer, The Christie

John Rogers - Superintendent Radiographer, The Christie

C) High dose rate brachytherapy for prostate cancer

Laura Lane - Team Leader (Radiographer)

Brachytherapy & Planning, The Christie

Will Gillespie - Specialist Dosimetrist, The Christie

14.30 Coffee break

Future Directions

Chair: Dr Ananya Choudhury

Consultant in Clinical Oncology, The Christie

14.50 Balloon debate: Trials vs big data vs modelling

Professor Peter Hoskin - Professor in Clinical Oncology, University College London

Professor Marcel van Herk - Chair in Radiotherapy Physics, University of Manchester

Professor Randal Mackay - Director of Physics and Technical Lead for Protons, The Christie

15.50 Finish