

Radiation Dosimetry, Imaging for Radiotherapy Treatment Planning & Patient Specific Dosimetry

Brooks-Lawley Building Lecture Theatre

Day 1: Tuesday 8th November 2016

08.30 - 09.00	Radiation Dosimetry – Chair-Person Vibeke Hansen Registration & Coffee	
09.00 - 09.10	Welcome & Introduction	Dr Vibeke Hansen
09.15 - 10.05	Photon Interaction Mechanisms Electrons	Professor Frank Verhaegen
10.10 - 11.00	Fundamental Principles of Dosimetry I	Professor Alan Nahum
11.05	Refreshments	
11.20 – 12.00	Radiotherapy & Cancer specific Lung Cancer	Dr Hannah Bainbridge
12.05 – 12.55	Electron Interaction Mechanisms	Professor Frank Verhaegen
13.00	Lunch	
14.00 - 14.50	Fundamental Principles of Dosimetry II	Professor Alan Nahum
14.55 – 15.45	Characteristics & Calculations for Photon Beams	Dr Ian Hanson
15.50	Refreshments	
16.10 - 16.55	Ionisation Chamber Design & Measurements Practice	Dr Tom Jordan
17.00 - 17.45	Practical Implementing of New Techniques in the Clinic	Dr Helen McNair
18.30	Course Meal	

Day 2: Wednesday 9th November 2016

09.00 - 09.50	Imaging for Radiotherapy – C/P James Bedford Applications of Monte Carlo Methods	Professor Frank Verhaegen
09.55 - 10.40	MR Imaging for Radiotherapy Planning	Dr Maria Schmidt
10.45	Refreshments	
11.05 - 11.55	PET Imaging for Radiotherapy Planning	Dr Iain Murray
12.00 – 12.50	Photon Beam Algorithms in Treatment Planning	Dr James Bedford
12.55	Lunch	
13.55 - 14.45	Stereotactic Body Radiotherapy (SBRT) for Lung Tumours	Dr Viv Cosgrove
14.50 - 15.40	Treatment Planning Margins; ICRU 50,62 & 83	Professor Carl Rowbottom
15.45	Refreshments	
16.05 - 16.35	Quality Control in Treatment Planning	Dr Vibeke Hansen

16.40 - 17.10	Quality Control in Treatment Planning - Checking	Richard Trouncer
17.15 – 17.25	Quiz on Radiotherapy Dosimetry	Dr Ian Hanson

Day 3: Thursday 10th November 2016

09.00 - 09.50	Treatment Planning Peter Childs Evaluation Tools in Treatment Planning	Ms Margaret Bidmead
09.55 - 10.50	Prostate Cancer: XBRT Techniques and Trials	Dr Chris South
10.55	Refreshments	
11.15 - 12.05	Intensity Modulated Radiotherapy (IMRT) Algorithms	Dr James Bedford
12.10 – 13.00	Inverse Treatment Planning for IMRT & VMAT	Mr Gregory Smyth
13.10	Lunch	
14.10 - 15.10	Electron Beam Therapy in Clinical Practice	Dr Ian Hanson
15.15 - 16.00	Large field Techniques in Radiotherapy	Mr Gregory Smyth
16.05	Refreshments	
16.20 - 17.00	Dosimetry for Molecular Radiotherapy	Dr Glenn Flux

Day 4: Friday 11th November 2016

09.00 - 09.45	Patient Specific Dosimetry – C/P Michael Thomas Radiotherapy for Head and Neck Cancer	Dr Kate Newbold
09.50 - 10.30	Radiotherapy for Breast Cancer: Current and Future Practice	Dr Anna Kirby
10.35	Refreshments	
10.55 - 11.35	Adaptive Radiotherapy for Bladder Cancer in Clinical Practice	Dr Shaista Hafeez
11.40 – 12.25	Radiotherapy for Oesophageal and Liver Tumours	Dr Maria Hawkins
12.30	Lunch	
13.35 - 14.20	Radiochromic Film Dosimetry	Dr Michael Thomas
14.30 - 15.10	<i>In Vivo</i> Dosimetry for Point Measurements	Mrs Honorata Chajeka-Szczygielska
15.15	Refreshments	
15.30 - 16.15	Verification and Image Based Dosimetry for IMRT	Dr Vibeke Hansen
16.20 - 17.15	Radiotherapy with Protons and Heavy Ions	Professor Uwe Oelfke
17.15 – 17.30	Quiz on Radiotherapy RT Planning	Dr Vibeke Hansen
17.30	Cheese & Wine Evening	

**Day 5: Saturday 12th November 2016
Workshop Sessions**

<p>Practical Workshop Sessions Assembly Point: Radiotherapy Atrium at 8.30 am</p>

	08.45	09.25	10.05	10.45	11.15	11.55	12.35
Inverse Planning for IMRT Katie & Alex	A	B	C		D	E	F
CT Planning for Breast & Pelvic Radiotherapy Segmented Forward Planning Corrine & Ruth	C	A	B		F	D	E
Image Fusion, Stereotactic & Whole CNS Planning Greg & Karole	B	C	A		E	F	D
Inverse Planning for VMAT Irena & James	D	E	F		A	B	C
Electron & Photon Beam Calibration Dosimetry Natalie & Matt	F	D	E		C	A	B
Treatment Plan Verification & <i>In Vivo</i> Dosimetry Honorata & Ian	E	F	D		B	C	A

<p>Evaluation forms will be collected during the refreshment break at 10.45 am. Please have them ready. Thank you</p>
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<p>End of Course</p>
