

Radiation Dosimetry, Imaging for Radiotherapy & Treatment Planning Brooks-Lawley Building Lecture Theatre - Sutton

Day 1: Tuesday 3rd November 2026

Imaging for Radiotherapy

08.30 -		
09.00	Registration & Coffee	
09.00 -	Welcome & Introduction	
09.10		
09.15 –	Radiotherapy for Paediatric CNS and other tumours	Dr Henry Mandeville
10.00		
10.05 –	PET Imaging for Radiotherapy Planning	Dr Iain Murray
10.55		
11.00	Refreshments	
11.20 -	CT & CBCT Radiotherapy Planning	Dr Jamie Dormand
12.10		
12.15 –	MR Imaging for Radiotherapy Planning	Dr Joan Chick
13.00		
13.00	Lunch	
14.00 –	Adaptive pelvic radiotherapy in clinical practice	Professor Robert Huddart
14.45		
14.50 –	Photon Interaction Mechanisms	Professor Joao Seco
15.50		
15.55	Refreshments	
16.20 –	Charged Particle Interactions	Professor Joao Seco
17.15		
18.45	Course Meal	

Day 2: Wednesday 4th November 2026

Radiation Dosimetry

08.45 -	Applications of Monte Carlo Methods	Professor Joao Seco
09.50		
09.55 -	Fundamental Principles of Dosimetry I	Dr Hugo Palmans
10.45		
10.50	Refreshments	
11.10 –	Intensity Modulated Radiotherapy (IMRT) Algorithms	Dr James Bedford
12.00		
12.05 -	Fundamental Principles of Dosimetry II	Dr Hugo Palmans
12.55		
13.00	Lunchtime Seminar with Dr Hugo Palmans	
14.00 -	Ionisation Chamber Design & Measurements	Professor Russell Thomas
14.50	Practice	
14.55 -	Radiation detectors	Dr Nathalia Almeida Costa
15.35		
15.40	Refreshments	
16.05 -	Radiotherapy for Head and Neck	Dr Kee Wong
16.45		
16.50 –	Evaluation Tools in Treatment Planning	Margaret Bidmead
17.40		

Day 3: Thursday 5th November 2026
Treatment Planning

09.00 – 09.50	Characteristics & Calculations for Photon Beams	Francis Lavender
09.55 – 10.30	Electron Beam Therapy in Clinical Practice	Dr Michael Thomas
10.35	Refreshments	
10.55- 11.45	Photon Beam Algorithms in Treatment Planning	Dr James Bedford
11.50 – 12.40	Treatment Planning Margins; ICRU 50,62 and 83	Dr David Bernstein
12.45	Lunch	
13.50 - 14.45	Stereotactic Body Radiotherapy (SBRT) for Lung Tumours	Dr Viv Cosgrove
14.50 – 15.30	Radiotherapy for Breast Cancer: Current and Future Practice	Dr Alison Ranger
15.35	Refreshments	
15.55 – 16.55	Quality Control in Treatment Planning	Dr Vibeke Hansen
17.00 – 17.30	Quality Control in Treatment Planning – Checking	Richard Trouncer

Day 4: Friday 6th November 2026
Treatment Planning II

09.00 – 09.40	Practical Implementation of New Techniques in the Clinic	Sophie Alexander
09.45 – 10.30	Radiotherapy for Oesophageal and Liver Cancer	Dr Arabella Hunt
10.35	Refreshments	
11.00 – 11.55	Prostate Cancer: Techniques and Trials	James Talbot
12.00 – 12.40	Treatment Planning – ‘Air Space’	James Talbot
12.45	Lunch with discussion	
13.50 – 14.45	Radiotherapy with Protons	Dr Sarah Gulliford
14.45 - 15.45	Inverse Treatment Planning for IMRT & VMAT	Dr Dualta McQuaid
15.50	Refreshments	
16.10 17.05	Adaptive Pathway	Dr Alex Dunlop
17.10 – 17.50	Applications of AI in Radiotherapy	Dr Dualta McQuaid
17.55 – 18.00	Quiz on Radiotherapy Dosimetry	James Talbot

**Day 5: Saturday 7th November 2026
Demonstrations & Discussion**

Assembly Point: Radiotherapy Atrium at 9.00 am

	9.15	10.05	11.15	12.05
Planning 1: Adaptive	A	D	C	B
Planning 2: Robustness	B	A	D	C
Dosimetry: Electrons & Photons	C	B	A	D
MR Linac	D	C	B	A

**Evaluation forms will be collected at the end of the last session
Approx. end time 1.15pm
Please have them ready. Thank you**

End of Course