

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

Day 1: Tuesday 4th November 2025

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 –	Photon Interaction Mechanisms	Dr Joao Seco
15.00		
15.05 -	Adaptive Radiotherapy for Bladder Cancer & lower GI in	Dr Robert Huddart
15.50	Clinical Practice	
15.55	Refreshments	
16.20 –	Charged Particle Interactions	Dr Joao Seco
17.15		
18.45	Course Meal	

Day 2: Wednesday 5th November 2025

Radiation Dosimetry

09.00 -	Applications of Monte Carlo Methods	Dr Joao Seco
09.50		
09.55 -	Fundamental Principles of Dosimetry I	Dr Hugo Palmans
10.45		
10.50	Refreshments	
11.10 –	Radiotherapy for Oesophageal and Liver Cancer	Dr Arabella Hunt
11.55		
12.00 -	Fundamental Principles of Dosimetry II	Dr Hugo Palmans
12.50		
12.55	Lunch	
14.00 -	Ionisation Chamber Design & Measurements	Dr 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	Ms Margaret Bidmead
17.40		

Day 3: Thursday 6th November 2025
Treatment Planning

09.00 – 09.50	Characteristics & Calculations for Photon Beams	Mrs Frances Lavender
09.55 - 10.35	Radiotherapy for Breast Cancer: Current and Future Practice	Dr Alison Ranger
10.40	Refreshments	
11.00- 11.50	Prostate Cancer: Techniques and Trials	Mr James Talbot
11.55- 12.45	Treatment Planning Margins; ICRU 50,62 and 83	Dr David Bernstein
12.50	Lunch	
13.50 - 14.35	Stereotactic Body Radiotherapy (SBRT) for Lung Tumours	Dr Viv Cosgrove
14.40 – 15.35	Photon Beam Algorithms in Treatment Planning	Dr James Bedford
15.40	Refreshments	
16.00 – 17.00	Quality Control in Treatment Planning	Dr Vibeke Hansen
17.05 – 17.35	Quality Control in Treatment Planning – Checking	Mr Richard Trouncer

Day 4: Friday 7th November 2025
Treatment Planning II

09.00 – 09.40	Practical Implementation of New Techniques in the Clinic	Ms Sophie Alexander
09.45 – 10.35	Intensity Modulated Radiotherapy (IMRT) Algorithms	Dr James Bedford
10.40	Refreshments	
11.10 – 11.45	Electron Beam Therapy in Clinical Practice	Dr Michael Thomas
11.50 – 12.30	Adaptive Pathway	Dr Alex Dunlop
12.35	Lunch	
13.40 – 14.20	Treatment Planning – ‘Air Space’	Mr James Talbot
14.25 - 15.15	Radiotherapy with Protons	Dr Sarah Gulliford
15.20	Refreshments	
15.40 – 16.40	Inverse Treatment Planning for IMRT & VMAT	Dr Dualta McQuaid
16.40 – 17.20	Applications of AI in Radiotherapy	Dr Dualta McQuaid
17.25 – 17.35	Quiz on Radiotherapy Dosimetry	Mr James Talbot

**Day 5: Saturday 8th November 2025
Workshop Sessions**

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