

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

Day 1: Tuesday 8th November 2022

Imaging for Radiotherapy

08.30 -		
09.00	Registration & Coffee	
09.00 -	Welcome & Introduction	
09.10		
09.15 –	Radiotherapy & Cancer	Dr Henry Manderville
10.00		
10.05 –	CT & CBCT Radiotherapy Planning	Dr Elly Castellano
10.55		
11.00	Refreshments	
11.20 –	PET Imaging for Radiotherapy Planning	Dr Iain Murray
12.10		
12.15 –	MR Imaging for Radiotherapy Planning	Dr Eva Kousi
13.00		
13.00	Lunch	
14.00 –	Photon Interaction Mechanisms	Professor Frank Verhaegen
15.00		
15.05 -	Treatment Planning Margins; ICRU 50,62 and 83	Dr David Bernstein
16.00		
16.00	Refreshments	
16.25 –	Charged Particle Interactions	Professor Frank Verhaegen
17.20		

Day 2: Wednesday 9th November 2022

Radiation Dosimetry

09.00 -	Applications of Monte Carlo Methods	Professor Frank Verhaegen
09.50		
09.55 -	Fundamental Principles of Dosimetry I	Dr Hugo Palmans
10.45		
10.50	Refreshments	
11.10 -	Fundamental Principles of Dosimetry II 1	Dr Hugo Palmans
12.00		
12.05 –	Photon Beam Algorithms in Treatment Planning	Dr James Bedford
12.55		
13.00	Lunch	
13.55 –	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 -	Characteristics & Calculations for Photon Beams	Dr Patrick Downes
16.55		
17.00 -	Radiotherapy for Oesophageal and Liver Cancer	Dr Brian Hin
17.45		
18.30	Course meal	

Day 3: Thursday 10th November 2022
Treatment Planning

09.00 - 09.40	Radiotherapy for Breast Cancer: Current and Future Practice	Dr Alison Ranger
09.45 - 10.30	Stereotactic Body Radiotherapy (SBRT) for Lung Tumours	Dr Viv Cosgrove
10.35	Refreshments	
11.00 – 11.40	Adaptive Pathway	Dr Alex Dunlop
11.45 - 12.35	Intensity Modulated Radiotherapy (IMRT) Algorithms	Dr James Bedford
12.40	Lunch	
13.45 – 14.45	Inverse Treatment Planning for IMRT & VMAT	Dr Dualta McQuaid
14.50 - 15.40	Radiotherapy with Protons	Mr Matthew Clarke
15.45	Refreshments	
16.05 - 16.45	Radiotherapy for Head and Neck	Dr Kee Wong
16.45 – 17.35	Evaluation Tools in Treatment Planning	Ms Margaret Bidmead

Day 4: Friday 11th November 2022
Patient Specific Dosimetry

09.00 - 09.40	Practical Implementation of New Techniques in the Clinic	Dr Helen McNair
09:45 - 10.35	Prostate Cancer: EXBRT Techniques and Trials	Mr James Talbot
10.40	Refreshments	
11.00 – 11.45	Electron Beam Therapy in Clinical Practice	Dr Michael Thomas
11.50 – 12.35	Large field Techniques in Radiotherapy	Mr Adam Mitchell
12.40 – 13.20	Treatment Planning – ‘Air Space’	Mr James Talbot
13.20	Lunch	
14.20 - 15.05	Adaptive Radiotherapy for Bladder Cancer & lower GI in Clinical Practice	Professor Robert Huddart
15.10 - 15.40	Independent Verification for IMRT	Dr Vibeke Hansen
15.45	Refreshments	
16.00 - 16.45	Quality Control in Treatment Planning	Dr Vibeke Hansen
16.50 - 17.20	Quality Control in Treatment Planning – Checking	Mr Richard Trouncer
17.25 – 17.40	Quiz on Radiotherapy Dosimetry	Mr James Talbot

**Day 5: Saturday 12th November 2022
Workshop Sessions**

Assembly Point: Radiotherapy Atrium at 8.30 am

	08.45	09.25	10.05	10.45	11.15	11.55	12.35
Planning 1: Pantak Room	A	B	C		D	E	F
Planning 2: Main Planning	C	A	B		F	D	E
Planning 3: Doctors' Room	B	C	A		E	F	D
MR linac	D	E	F		A	B	C
Electron & Photon Beam Calibration Dosimetry	F	D	E		C	A	B
Treatment Plan Verification	E	F	D		B	C	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