



Deep Dive into Dosimetry

5 – 6 November 2021

Program

Friday 5 th November	Topic	Speaker	DIMP CTG	ROMP CTG
Introduction to Dosimetry				
9:00 - 9:30	The Good, the Bad and the Ugly - ARPANSA/ACDS/Incident Register insights into what happens when good intentions lead to bad dosimetry	Ivan Williams		2.6.1.1, 2.6.1.2,
9:30 - 10:00	Back to School on Detectors: An Introduction to Physical Operation of Radiation Dosimeters, Advantages, Disadvantages, Limits and Uncertainties	Andrew Fielding	CE2.2, SR3.3	
10:00 -10:15 Morning Tea				
Traceability, Calibration, Protocols and Uncertainties				
10:15-10:45	How to use your Calibration Certificate for Absolute Dose Calibration	Duncan Butler		3.3.1.1
10:45-11:15	Source calibration, well counters, primary standards, traceability	Christine Keevers	CE1.3, SN4.9, ON3.10	6.2.1.1, 6.2.1.2, 6.2.1.3
11:15-11:45	Survey Meter calibration	Drew Watson	CE2.2	2.3.1.1, 2.3.1.3, 2.3.2.1
11:45-12:15	Dosimetry in kV	Robin Hill		5.3.2.2
12:15 - 12:30	Dosimetry in Magnetic fields	John Baines		5.4.2.1
12:30 – 13:00 Lunch				
Radiology Metrics and CT Dosimetry				
13:00-13:30	Determining Meaningful Imaging Doses in CT, Planar Xray, Fluoroscopy and Cone Beam CT. What dose metrics	Dan Schick	CE1.3, CB3.1, SR3.3	2.5.2.1, 4.5.2.1, 4.5.2.2, 8.2.1.2
13:30-15:00	CTDI _{vol} : Axial vs Helical Measurement & Narrow Beam vs Wide Beam Practical Workshop	Ben Keir & Dan Schick	CB3.1, SR3.3	8.2.1.2
15:00 – 15:15 Afternoon Tea				
Detection of Leakage				
15:15 - 15:45	Detection and measurement of low-level activity	Drew Watson	CE2.2	2.5.2.2, 2.5.2.3
15:45-16:30	Low Doses- How to measure doses to Pacemaker/ICD	Sam Peet		2.5.2.1, 3.5.1.1

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Alternative Detectors				
9:00-9:20	In vivo- TLD, OSLD, Alanine, Film	Chris Noble	CE2.2	3.5.1.2
9:20 - 10:20	Film dosimetry- Development and Delivery + Practical Workshop	Emma Spelleken		3.1.1.2, 3.1.2.2
10:20-11:20	EPID Dosimetry, Transit Dosimetry, SunCheck EPIGray + Practical Workshop	Luke Webb		3.1.1.4, 3.5.1.2
11:20 – 11:35 Morning Tea				
Small Fields				
11:35-13:00	Small Fields + Practical Workshop	Paul Charles		3.4.1.2, 5.3.2.1, 5.4.1.2
13:00 – 13:30 Lunch				
Sealed and Unsealed Sources of Radiation				
13:30-14:30	Dosimetry in Brachy- source calibration + Practical Workshop	Rachel Wilks		6.2.1.3
14:30-14:45	Risks posed by neutron contamination in high energy radiotherapy	John Doody		2.2.1.2, 2.2.2.1, 2.3.1.1, 2.3.1.2, 2.5.2.1
14:45-15:00 Afternoon Tea				
Radiation Contamination				
15:00-16:00	Contamination monitoring – + How to perform Calibration Practical	Deborah Carrick	CE2.2	2.4.1.4, 2.4.2.1,
16:00- 17:00	How to find contamination and perform wipe tests, Protocol Update Wipe Test and Disposal Considerations	George McGill	CE2.2	2.4.1.4, 2.4.2.1,
17:00	Closing of Summer School 2021			