

Clinical Brachytherapy Workshop

September 11-14 2025 (AEST)



Thursday September 11th	
8:30 – 8:50 am	Registration
8:50 – 9:00 am	Welcome & Introduction: A/Prof. Joel Poder, Gemma Busuttil, Stephanie Miller
Session Chairs:	
9:00 – 9:45 am	THURS_1_Bucci, Poder, Miller Building a career in brachytherapy Dr Joseph Bucci, A/Prof. Joel Poder, Ms. Stephanie Miller (45 min)
9:45-10:15am	THURS_2_Sullivan Brachytherapy is best: Comparison of Techniques (BT, EBRT & charged particles) Emma Sullivan (30 min)
10:15-10:45 am	THURS_3_Howie Introduction to radiation safety and protection; Protection principles and procedures, emergency procedures, source storage and security, biological effects of radiation and current dose limits. Andrew Howie (35 minutes)
Morning Tea: 10:45 -11:10 am	
Session Chairs:	
11:10 am – 11:45pm	THURS_4_Flower Basic principles of HDR operation and quality assurance Dr. Emily Flower (35 minutes)
11:45 – 12:20	THURS_5_Brown Principles of treatment planning, optimisation methods and plan checking Dr. Ryan Brown (35 min)
Lunch: 12:20 – 1:10 pm	
Session Chairs:	
1:10 – 2:20 pm	THURS_6A_Bucci & Poder Prostate Cancer (LDR) 1:10 – 1:45 pm LDR Clinical Component (Dr Joseph Bucci) (35 min) 1:45 – 2:20 pm LDR Technical Component (A/Prof Joel Poder) (35 min)
Stretch Break: 2:20 – 2:30 pm	
Session Chairs:	
2:30 – 3:20 pm	THURS_6B_ Bucci & Poder Prostate Cancer (HDR) 3:25 – 3:50 pm HDR Clinical Component (Dr Joseph Bucci) (25 min) 3:50 – 4:15 pm HDR Technical Component (A/Prof. Joel Poder) (25 min)
Afternoon tea: 3:20 – 3:45 pm	
Session Chairs:	
3:45 – 4:45 pm	THURS_7_ Cosman, Poder & Miller Skin brachytherapy Dr George Cosman, A/Prof. Joel Poder, Stephanie Miller (60 min)
4:45 – 5:15 pm	THURS_8_Newall Eye plaque brachytherapy: Clinical indications, equipment, imaging, QA, and planning technique. Dr. Matthew Newall (30 min)
6:00 – 10:00 PM	Social event: St. George Sailing Club

Friday September 12th	
8:50 – 9:00 am	Welcome to Day 2
Session Chairs:	
9:00 – 10:00 am	FRI_1_Brown Dose calculation and source specification Dr. Ryan Brown (60 min)
10:00 – 10:45 am	FRI_2_Panettieri Radiobiology for brachytherapy A/Prof. Vanessa Panettieri (45 min)
Break: 10:45-11:05	
Session Chairs:	
11:05 – 11:45 am	FRI_3_Sullivan Imaging for brachytherapy , including principles of image reconstruction, catheter/applicator delineation, patient anatomy, image distortion/artefacts Emma Sullivan (40 min)
11:45 am-12:15 pm	FRI_4_Chin Clinical applications: Breast. – Lecture Dr Yaw Chin (30 min)
12:15 pm – 1:45 pm	FRI_5_Chard & Busuttil Paediatric Brachytherapy Dr Jennifer Chard J, Gemma Busuttil (40 mins)
Lunch: 12:45 – 1:25	
Session Chairs:	
1:30 - 2:00 pm	FRI_6_Cosman Clinical applications: Head and neck, intraluminal – Lecture Dr George Cosman (30 min)
2:00 – 2:35 pm	FRI_7A_Do Gynaecological Cancers: Clinical component Clinical indications, Patterns of care, Principles of treatment, Target definition and image interpretation, prescription, protocol and technique, Clinical results GEC-ESTRO recommendations (clinical) Dr Viet Do (35 min)
2:35 – 3:10 pm	FRI_7B_Tsovaras Technical Component: GEC-ESTRO recommendations (technical) including imaging Angelo Tsovaras (35 min)
Break 3:10 - 3:30 pm	
Session Chairs:	
3:30 – 5:00pm	Station 1: Rectal Spacer Insertion Practical (Barrigel) (Joel Poder) Station 2: Breast brachytherapy needle insertion practical (Yaw Chin, STGCC RT) Station 3: Intraluminal brachytherapy practical (George Cosman, Kristine Schreiber) Station 4: U/S optimization and GYN applicator insertion (Steph Miller, Angelo Tsovaras)

Saturday September 13th			
	Group 1	Group 2	Group 3
St George staff to assist across all groups			
8:15 am all delegates and staff assemble St George Cancer Centre for briefing			
8:30-9:40 am	Contouring –Prostate and Gynae Dr Joseph Bucci & Dr Jennifer Chard Steph Miller	1. HDR unit operation (40 min): User and emergency procedure training 2. General BT equipment overview (30 min) Victor Edwards/Joel Poder & Vanessa Panettieri/ Tsovoraras	Planning –Prostate HDR Dr Niluja Thiru Andrew Howie Ryan Brown
Morning tea 9:40-10:00am			
10:00-11.10am	Planning –Prostate HDR	Contouring –Prostate and Gynae	1. HDR unit operation (40 min): User and emergency procedure training 2. General BT equipment overview (30 min)
11:10am - 12:20pm	1. HDR unit operation (40 min): User and emergency procedure training 2. General BT equipment overview (30 min)	Planning –Prostate HDR	Contouring –Prostate and Gynae
Lunch 12:20-1:10 pm			
	Group 1	Group 2	Group 3
1:15-2:25 pm	Stepper Stabiliser set-up Mock volume study Practise needle insertion Dr Niluja Thiru Dr Joel Poder Steph Miller	Planning: Gynaecological planning Vault and Cervix Dr Jennifer Chard Angelo Tsovoraras Gemma Busuttil	Planning –Prostate LDR Dr Joseph Bucci Ese Enari Ryan Brown
2:25-3:35pm	Planning –Prostate LDR	Stepper Stabiliser set-up Mock volume study Practise needle insertion	Planning: Gynaecological planning Vault and Cervix
Afternoon tea 3:35-4:00 pm			
4:00-5:10pm	Planning: Gynaecological planning Vault and Cervix	Planning –Prostate LDR	Stepper Stabiliser set-up Mock volume study Practise needle insertion

Sunday September 14th: Exam Preparation and Advanced Planning Clinic

9:00 am – 10:30 am	Session 1 (RO): Exam preparation Jennifer Chard Niluja Thiru	Group 2 (Physics): ◦ Dosimetry formalism for physics ◦ Dose calibration (theory) Joel Poder	Group 3 (RTs) 3D printed surface applicators Ryan Brown Steph Miller
10:30-10:50: Break			
10:50 am- 12:30 pm	Session 2. (RO): Join Group 2 or Group 3	Group 2 (Physics): 3D printed surface applicators Ryan Brown Steph Miller	Group 3 (RTs) Advanced gyn treatment planning Gemma Busuttil Angelo Tsovoras
12.30pm	Finish for ROs and RTs		
12:30- 1:00pm	Lunch for Physics		
1:00- 5:00pm	Physics Stream A HDR source calibration & QA Andrew Howie	Physics Stream B Applicator commissioning and eye plaque treatment planning Joel Poder	Physics Stream C TPS commissioning and ultrasound calibration Ryan Brown Vanessa Panettieri

