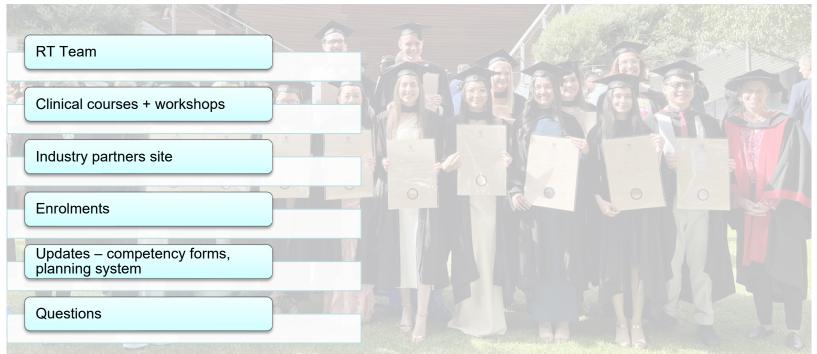


University of South Australia

Radiation Therapy Break out room

Agenda







Radiation Therapy Academic team









Eva Bezak

Donna Matthews

Lisa Cunningham

Clinical courses

2024 (RT) Non-Honours Clinical Grid

wee	(1	2 3	4 5 6 7	8 9 10 11 12 13	14 15 1	6 17 18	19 20 21	2 23 24 25	26 27	28 29 30	31 32 33	34 35	36 37	38 39	40 41 42 43	44 45 46	47 48 49 50	51 52			
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	Н			Aboriginal Health		Aborigin	al Health			Path					Pathology						10 C C
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				H Phys 100		H Phys 1	00			H Ph	nys 101	TÍ		1	H Phys 101						anatoro
				Intro Med Rad		Intro Me	d Rad			Phys	sics 100			8	Physics 100						
	Ц			SP2		SP2				SP4 SP5					SP5		SP4				
	Ц			HA 201 (G&S)		HA 201 (ies 2				Studies 2		Clinical				Mishala Ohaut
Yr 2	\square			Psychology		Psycholo	gy			rac 1A <i>i</i> EBF				_	EBP		Practice 1B		Yr 2	CP1	Michala Short
				Studies 1		Studies1	* * * *	*			sics 300				Physics 300		4.5 units				
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	Н	$\left \right $		Studies 3	Clinical	_				Studies 4			or4 Clinical Pr	ractico (0.50	
Yr 3	Н	\vdash		AEBP	Practic		P			Specialis			anits	acuce 2					Yr 3	CP2	Eileen Giles
	H			Elective	9 units	_					<u></u>		6 weeks								
	H			CT & PET	3 week		PET														
				SP2			SP3			SP5					SP6						
				Clinical Practice 3			Clinical Practic	e 4			essional Entr	ry				onal Entry			Yr 4	CP3	Eileen Giles
Yr 4	Ц			9 units			9 units			Pract					Practice	2				0.0	
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	+		C ab an an	Maarb	April		Mari			6 we					6 weeks					CP4	Lisa Cunningham
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	1	8 15	22 29 5 12	19 26 4 11 18 25	1 8 1	5 22 29	6 13 20	3 10 1/	24 1	8 15 22	29 5 12	19 26	2 9	16 23	30 / 14 21	28 4 11	18 25 2 9	16 23		PEP1	Eileen Giles
	KEY																				
			Shared acade	mic course			Regular Unive	sity breaks		Clinic	cal course (P	Placemen	t)		* One hour CF	1 workshop p	per week			5550	D
			Discipline spe	cific academic course			Exam period			Pre-o	clinical work	shop			AEBP On-ca	mpus worksho	op			PEP2	Donna Matthews
											-										



Pre-clinical workshops

- Communication role plays
 - CP1: treatment setup, in groups
 - CP3: difficult conversations, in pairs
 - CP4: first day chats, individual
- Simulated competencies (SXR, CTsim, planning)
- IPL with Rad Onc registrars
- Mock clinics CP1, CP3 IPL with Nuc Med students



Industry partners site

- Clinical placement information
- Clinical maps
- Course dates and coordinator names

<u>Course: Program information for industry partners - Medical Radiation | learnonline</u> (unisa.edu.au)



U	University of South Australia	Program informatio	on for industry partners - Medical Radiation
	General	^	Home > NCOO4OO > General
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nt	Social For	um	General
	Clinical Grids	~	
ies	Clinical Superv Meetings	isor 🗸 🗸	Medical Radiation Sciences
ngs	Clinical Policies	5	Industry Partner Information Page
	Medical Imagin Resources	ng 🗸	Welcome
	Nuclear Medici Resources	ne 🗸	This industry partner page provides valuable resources for clinical educators, supervisors and mentors including:
	Radiation Thera Resources	ару 🗸	 clinical policies and procedures clinical grids ongoing support, training and information for you as a supervisor contacts here at the university course information We welcome feedback regarding the usefulness of this website, so please contact any of the Medical Radiations teaching team:

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Medical Radiation Academic Team

2024 Enrolments

- Year 1 28
- Year 2 19
- Year 3 16
- Year 4 9 (2 Hons)

HDR students 2 x PhD 1 x Masters

2023 graduates = 17 (All employed)



New comp

Bachelor of Medical Radiation Science Progra Competency Assessment Form -		
South Australia Clinical Practice 3		
Placement location		Date
Procedure		Competency number
All boxes must be ticked (except N/A for tasks Not applicable) to indicate	that an ove	rall pass has been achieved.
PATIENT & ROOM PREPARATION		COMMEN
Patient notes/alerts/infectious status checked.		
Appropriate treatment prep identified (premeds, fasting, bladder/bowel protocol)		
Immobilization prepared correctly.		
Motion management prepared correctly if applicable		
TECHNIQUE & EQUIPMENT		
Correct patient positioning on treatment couch		
Levelled, straightened and isocentre set appropriately.		
Ancillary equipment applied correctly (bolus, packing etc.)		
Problem solving applied effectively.		
Infection control & manual handling (OHS&W) completed safely		
COMMUNICATION		
Introduced self and engaged appropriately with patient.		
Patient ID confirmed (3 identifiers, e.g.: Name, DOB, UR)		
Clear directions explained to patient pre, during and post treatment.		
Clear communication & teamwork with staff		
Identified/communicated other appts (review, wound dressings, dietician etc.)		
QUALITY ASSURANCE & TREATMENT DELIVERY		
'Time Out' completed - Patient ID, site, setup and isocentre checked.		
Additional required checks completed (FSD, light field, gantry clearance etc.)		
Competent and safe operation of Linac		
Competent and safe operation of treatment console (select if N/A)		
Patient monitored throughout treatment (select if N/A)		
IMAGING - Leave blank if student did not undertake online image match		🗆 (selec
Relevant departmental imaging protocol followed.		
Patient specific image match guidelines checked.		
Competent operation of anatomical matching software.		
GENERAL KNOWLEDGE		
Primary disease and treatment intent known and understood.		
Understands prescription & technique for treatment.		
Understanding of patient's clinical condition and potential side effects.		
OVERALL COMPETENT FOR THIS ASSESSMENT (please confirm)		
Supervisor Name: Supervisor Signature:		Line Code

U	Bachelor of Medical Radiation S
University of	Competency Assessmen
South Australia	Clinica

Location

Anatomical site

Supervisor name:

cience Program – Radiation Therapy nt Form – PLANNING PAGE 1 Clinical Practice 3

Planning system

Competency number Date

Intent: Radical / Palliative Planning technique: 3D Conformal / IMRT/VMAT / Electrons

N = Not Competent / D = Developing / C = Competent Please refer to page 2 for details of pass levels in different courses.

DATA SET PREPARATION + ORGANS AT RISK

Localisation accura	ocalisation accurate						с	Relev	ant C	ARs o	onto	ured
ouch removal accurate						D	с	Conto	ourinį	g accu	irate	
External ROI + markers contoured						D	с	Densi	ity ov	erride	es cor	iside
	PRESCRIPTION + POINTS											
Prescription appro technique	priate	for p	lan		N	D	с	Isocentre position approp				
Prescription set co	rrectly	1			N	D	с	Dose point position appro				
								BEA	MS			
Beam arrangemen (Target coverage + n				LARA)	N	D	с	Beam	ener	gy ap	prop	riate
Field sizes are app					N	D	с			m geo collima		
Bolus has been cre	ated a	iccura	itely	n/a	N	D	с	Bolus	appl	ied to	corre	ect b
					31	D CO	NFO	DRMA	NL [⊐ (s	elec	t)
Deserve interference	ptimis	ed			N	D	с	Beam	mod	lifiers	appli	ed if
Beam weighting of	Shielding applied effectively						c	Beam modifiers used: Please specify, e.g.: wedge / :				
	effectiv	/ely			N	D	C	Please			.: wee	
	effectiv	/ely				D /IRT/			spec			ge/
			,						spec	<u>fy. e.g</u> ⊒ (s	elec	'9e/ t)
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Shielding applied of IMRT parameters : Target evaluation required (crimmed/ Optimisation volur Block shielding cre Dose grid	set cor volum ho over mes us ated c	rectly es use rlap) ed if i orrec	ed if requir tly C	Max + volum Repro	IN N N EI N FLAN Hones accoducit	MRT, D D D LECT D N EV dose ccepta	/VM C C C TROI C ALU to tar ble	AT Targe OAR Corre proto NS Norm ATIO get	e spec [et opt optim ect Ta cols/ [nalisat N + N	jv. e.g (s imiser isser fi rget a site/d (si (si (si (si (si D D	elec r function unction lose s elec CUSS C	(ge / t) tion ons : AR g peci t) oriat Ta O

Planning competency levels relative to clinical course development.

A result of not competent (N) in any element means an overall pass was not achieved.

Year 3	
CP2	Demonstrate beginning level computer planning skills and knowledge.
	All elements must be competent (C) or developing (D)
Year 4	
CP3	Produce and evaluate 3D conformal, IMRT and electron treatment plans of standard
	abdomen, chest, breast, and head and neck, demonstrate intermediate level computer
	planning skills and knowledge.
	C is required for Dataset Prep & OAR + Prescription + Beams
	D is acceptable in IMRT/VMAT and no more than 6 remaining sub-elements
CP4	Produce and evaluate 3D conformal, IMRT electron treatment plans of standard
	techniques, demonstrate advanced level computer planning.
	C is required for Dataset Prep & OAR + Prescription + Beams
	D is acceptable in IMRT/VMAT and no more than 4 remaining sub-elements
PEP1	Produce and evaluate complex treatment plans, incorporating multi-modality imaging of
	standard techniques, demonstrate advanced level computer planning.
	C is required for Dataset Prep & OAR + Prescription + Beams + Plan Evaluation
	D is acceptable in IMRT/VMAT and no more than 2 remaining sub-elements
PEP2	Produce and evaluate complex treatment plans (incorporating multi-modality imaging of
	standard techniques) and demonstrate computer planning skills and knowledge to the
	standard of an entry level practitioner.
	C is required for Dataset Prep & OAR + Prescription + Beams + Plan evaluation
	D is acceptable in IMRT/VMAT sub-elements

REFER TO THE NEXT PAGE FOR COMPETENCY EXPECTATIONS AND TO ENTER FURTHER NOTES

Signature:

Overall PASS YES 🗆 NO 🗆

Line code:

New CT Competency form (PEP1 & 2)



University of outh Australia	of Medical Radiation Science Prog Competency Assessment Form	- CT Simulation
udent Name	Placement location.	
rocedure		r Date
All boxes must be ticked (except N/A fo	or tasks Not applicable) to indicate that an ove	rall pass has been achieved.
PATIENT & ROOM PREPARATION		COMMENTS
Patient notes/alerts/infectious status et	tc. checked.	
CT Sim request completed by RO		H I
Patient Consent signed.		П
Appropriate treatment prep identified (e.g., contrast, fasting, bladder/bowel prep)	
Immobilisation prepared correctly.		
Motion management prepared correctly	y 🔲 (select if N/A)	H
COMMUNICATION		
Introduced self and engaged appropriat	ely with patient	
Patient ID confirmed (3 identifiers, eg; Nav	w, DOB, UR)	H
Clear directions explained to patient pre	e, during and post procedure	
Appropriate communication & teamwor	rk with staff	
TECHNIQUE		
Correct patient positioning on CT couch	(leveled + straightened)	
Immobilisation indexed + appropriate ta	attoo (x) positions determined	H
Ancillary equipment made correctly as p	oer dept protocols (If yes, specify. Or select if N/A	
Competent and safe operation of CT ma	tchine (eg; checks pt fits safely through bore)	H
Infection control & manual handling (Of	HS&W) completed safely	H I
IMAGING PROCEDURE		
'Time Out' completed - Patient ID, diagr	nosis, setup and scan limits checked	
Determined appropriate length of CT sc	an from scout image	H
Appropriate radio-opaque markers / wir	res used for scan	H
Competent and safe operation of CT cor	nsole 🗌 (select if N/A)	Specify mation management
Competent participation in 4D motion n	nanagement system 🔲 (select if N/A)	technique used:
DOCUMENTATION & QUALITY AS	SURANCE	
Correct departmental CT Sim record use	ed for patient referencing	
Checked CT dataset to ensure accurate		H
Correct anatomical and immobilisation I	landmarks documented	H
Ancillary/immobilisation equipment app	propriately labeled and stored	Н
Reference tattoos performed safely and	accurately 🔲 (select if N/A)	H I
GENERAL KNOWLEDGE		
Understands intent, prescription & tech	nique for treatment and how that applies	
to chosen immobilisation/patient setup		
Supervisor	Supervisor	Line
Name:	Signature:	Code:

Planning system upgrade

- RayStation TPS coming to UniSA later this year
- 22 licences with remote access available via Citrix
- Will phase into teaching- some overlap with current Pinnacle TPS
- Full range of planning functionality photon (incl VMAT), electron, proton, Tomo, CyberKnife, Brachy
- Thanks to Pinnacle for 20+ years of service!



Question time

