

Ultrasound Room - Procedures

Room Code	ULTR-PR
Briefed Area	20.00 m ²
Ceiling Height	2.7 m
Occupancy	1 patient; 1 visitor/carer; 1-2 staff
Hours of Operation	Up to 24 hours

Description | The Ultrasound Room - Procedures provides the space and amenities for sonographers to perform ultrasound imaging in support of clinicians carrying out biopsies and interventional procedures. General anaesthesia will not be administered in this room.

Electrical	PROTECTION: body protected	<input checked="" type="checkbox"/>	HVAC	AIRCONDITIONING: general	<input checked="" type="checkbox"/>
	PROTECTION: cardiac protected	<input type="checkbox"/>		AIRCONDITIONING: HEPA filtered	<input type="checkbox"/>
Lighting	LIGHTING: general	<input checked="" type="checkbox"/>		AIRCONDITIONING: positive pressure	<input type="checkbox"/>
	LIGHTING: colour corrected	<input checked="" type="checkbox"/>		AIRCONDITIONING: negative pressure	<input type="checkbox"/>
	LIGHTING: dimmable	<input checked="" type="checkbox"/>		VENTILATION: exhaust	<input type="checkbox"/>
	LIGHTING: indirect	<input checked="" type="checkbox"/>		VENTILATION: supply	<input type="checkbox"/>
Nurse Call and Duress	NURSE CALL SYSTEM: buttons / handset	<input checked="" type="checkbox"/>	Medical Gas	VENTILATION: natural	<input type="checkbox"/>
	NURSE CALL SYSTEM: annunciator	<input type="checkbox"/>		MEDICAL GAS: general anaesthesia	<input type="checkbox"/>
	DURESS: fixed	<input checked="" type="checkbox"/>		MEDICAL GAS: special care	<input type="checkbox"/>
	DURESS: wireless coverage	<input checked="" type="checkbox"/>		MEDICAL GAS: special care, neonatal ventilation	<input type="checkbox"/>
Security	ACCESS CONTROL: to door	<input type="checkbox"/>	Hydraulic	MEDICAL GAS: birthing	<input type="checkbox"/>
	ACCESS CONTROL: to item / joinery	<input type="checkbox"/>		WATER: drinking	<input checked="" type="checkbox"/>
	INTERCOM: service communications	<input checked="" type="checkbox"/>		WATER: specialty	<input type="checkbox"/>
	INTERCOM: security and access control	<input type="checkbox"/>		DRAINAGE: sanitary	<input checked="" type="checkbox"/>
	CCTV: camera coverage within room	<input type="checkbox"/>	Fire	DRAINAGE: specialty	<input type="checkbox"/>
	INTRUSION DETECTION: door monitoring	<input type="checkbox"/>		DETECTION: smoke	<input checked="" type="checkbox"/>
	INTRUSION DETECTION: spatial monitoring	<input type="checkbox"/>	Shielding	DETECTION: heat	<input type="checkbox"/>
ICT and Audio Visual	AUDIO VISUAL: patient entertainment system	<input type="checkbox"/>		SHIELDING: ionising radiation	<input type="checkbox"/>
	AUDIO VISUAL: visitor experience system	<input type="checkbox"/>	Acoustics	SHIELDING: magnetic and radio frequency	<input type="checkbox"/>
	AUDIO VISUAL: virtual collaboration system	<input type="checkbox"/>		<div> SPEECH PRIVACY: <div> not private moderate private confidential </div> </div>	
	AUDIO VISUAL: clinical support system	<input type="checkbox"/>			
	AUDIO VISUAL: digital operating room system	<input type="checkbox"/>			
Accessibility	AUDIO: hearing augmentation	<input type="checkbox"/>		<div> NOISE SENSITIVITY: <div> not sensitive medium sensitive sensitive </div> </div>	
	VISUAL: luminance contrast	<input checked="" type="checkbox"/>			
	SIGNAGE: accessible, statutory	<input type="checkbox"/>		<div> NOISE GENERATION: <div> low moderate high very high </div> </div>	

Additional Considerations

- The room will require sufficient clearance for the ultrasound machine and sonographer to be positioned to either side of the examination trolley and may need to occasionally accommodate a patient on a bed to either be transferred to the examination trolley or have the ultrasound/procedure performed while they are in the bed.
- The ceiling height has been nominally shown at 2700mm, however 3000mm is also acceptable and the height is to be determined based on ceiling mounted equipment and service requirements.
- Patient transfer aids such as mobile hoists, patient slides and hover mats are to be considered for assisted patient transfers to and from the examination couch where a procedure cannot alternatively be performed on a patient bed. A ceiling mounted hoist may be considered for patient transfers. Final selection of transfer aids will be dependent on service requirements, the needs of the anticipated patient cohort (e.g. for ambulatory services, acute services, etc.), as well as WHS risk assessments/policies. Appropriate ceiling support is required for the provision of a ceiling mounted hoist.

- A combination of dimmable general room lighting and dimmable indirect lighting (wall and/ or ceiling fixtures) is preferred to obtain appropriate lighting levels and avoid glare on the screen of the ultrasound machine. Additional directional lighting for procedures may be required and is best provided with mobile procedure lights to allow sufficient adjustability to perform tasks while ensuring the ultrasound screen can still be visualised.
- Sufficient space for pathology staff to bring in a trolley and plug in equipment (e.g. microscopes) is required.
- Close access to a patient toilet and change room is required, with direct access from the room being preferred to support patients that have changed into gowns and require ultrasounds to be performed with a full bladder and then with an empty bladder.
- Provision of reticulated nitrous oxide is optional and must be confirmed to suit local jurisdictional policies and operational service requirements. The use of nitrous oxide is declining due to a range of clinical and environmental concerns. Reticulated systems have been found to increase leakage of nitrous oxide (a potent greenhouse gas) to atmosphere, can increase facility operating costs and potentially expose staff to nitrous oxide. Reticulated nitrous oxide and associated scavenge outlets are not mandatory for any healthcare service and point of care cylinders can meet clinical requirements for the majority of healthcare facilities. Due consideration must be given to a range of operational considerations including monitoring and measurement of usage, management of leakage, WHS requirements relating to the use of cylinders, approach to the provision of scavenge where cylinders are used, appropriate storage for cylinders, and security of gas sources given it is used as a recreational drug.
- Provision of height adjustable workstations or fixed joinery is to be in line with service requirements and local WHS policies.
- The type, extent and configuration of storage within the room for consumables, linen, equipment, etc. will be dependent on service requirements, operational policies for stock centralisation/decanting and infection prevention and control policies.
- Size, type and quantity of waste bins is dependent on waste management policies (e.g. for waste separation, frequency of waste removal, etc.) and service requirements.
- Hours of operation depend on the service in which this room is located. Ambulatory medical imaging services may only operate during business hours or extended business hours, some small hospital services may have an on-call, after-hours service. Large units are likely to provide a 24-hour service, especially where a satellite service is provided with an emergency department.
- Requirement for fixed and/or mobile duress to be confirmed to suit service requirements.
- An operational model for responding to calls from staff/patients will be needed to support the inclusion of a nurse call system and is to be determined based on service requirements.
- Provision of an intercom for staff communication within the department is dependent on service requirements. This function may be provided as part of the telephone system.
- The final services and configuration of the Medical Services Panel (MSP) - medical gases, nurse call, power and data - will be dependent on service requirements.
- The need for and extent of emergency power and UPS must be reviewed to suit site specific requirements and confirmed based on risk assessment considering the impact of a power outage on patient care/safety.



Doors and Windows

CODE	DESCRIPTION	COMMENT
DOHI-104.01	DOOR: hinged, 1 1/2 leaves, 1400 clear opening, solid	
AFDPR-006.01	DOOR PROTECTION: plate, to 900H	to both sides of door



Finishes

CODE	DESCRIPTION	COMMENT
FLVY-101	FLOOR FINISH: vinyl, seamless, standard slip resistance	minimum slip rating R10 / pendulum P3 or agreed equivalent to extend under basin or inset section of non-slip vinyl required
FLSK-021	SKIRTING: vinyl, integral with floor vinyl, coved	
WLFI-002	WALL FINISH: paint, clinical areas	
WLFI-101	SPLASHBACK: vinyl	to basin
WLPR-002	WALL PROTECTION: bedhead wall panel, low height	
CLFS-011	CEILING: flush set, suspended	
CLFI-002	CEILING FINISH: paint, clinical areas	
CLCN-031	CORNICE: square set	



Joinery

CODE	DESCRIPTION	GROUP	QTY	COMMENT
JOCU-001	CUPBOARD: tall, single door	①	1	type and extent of storage to suit service requirements, operational policies for stock centralisation/decanting and infection prevention and control policies
JOCU-021	CUPBOARD: tall, double door	①	1	type and extent of storage to suit service requirements, operational policies for stock centralisation/decanting and infection prevention and control policies
JOGE-001	BULKHEAD: joinery	①	1	



Fittings, Furniture and Equipment (FF&E)

CODE	DESCRIPTION	GROUP	QTY	COMMENT
FIBM-019	WHITEBOARD: fixed, magnetic	②	1	
FIDI-106	DISPENSER: PPE, disposable gloves, wall mounted	②	1	
FIDI-231	DISPENSER: paper towel, wall mounted	②	1	to basin
FIDI-241	DISPENSER: alcohol-based hand rub, wall mounted	②	1	
FIDI-256	DISPENSER: soap, wall mounted	②	1	to basin
FIDI-261	DISPENSER: soap, antiseptic, wall mounted	②	1	to basin
FIHR-026	HOOK: coat	①	2	optional - for patient property, 1 mounted at 1200H if provided
FIHR-101	BRACKET: suction bottle, wall mounted	②	1	
FIHR-113	BRACKET: sharps bin, trolley mounted	②	1	
FIHR-333	BRACKET: television/AV system display screen, single, fixed, ceiling mounted	②	1	to slave display screen
FIHR-481	BRACKET: sling, arm support, ceiling mounted	②	1	optional
FIRT-051	TRACK: curtain, privacy	①	1	to entry door
FQBS-101	CHAIR: visitor, clinical areas	③	1	
FQBS-171	CHAIR: office, ergonomic	③	1	
FQBS-202	STOOL: clinical areas, mobile	③	1	
FQCL-211	LINEN CARRIER: dirty, single skip	③	1	
FQDW-164.02	WORKSTATION: straight, adjustable height, electric, 720H nom, 750D x 1200W	③	1	
FQGE-101	CURTAIN: privacy screen	③	1	to entry door
FQGE-121	CLOCK: analogue, battery operated	③	1	
FQGE-161	STOOL: step	③	1	optional - for patient access to examination trolley, provision dependent on adjustable height range of trolley
FQWS-004	BIN: sharps, clinical, large	③	1	
FQWS-053	BIN: general waste, 50L	③	1	
FQWS-231	BIN: clinical waste, 20L	③	1	type, size and quantity of bins to be determined based on service requirements and waste management policies
HYBA-101	BASIN: type A, handwashing	①	1	
HYTP-067	TAPWARE: basin, tap set, wall mounted, lever handles	①	1	

CODE	DESCRIPTION	GROUP	QTY	COMMENT
ITCL-362	DISPLAY SCREEN: medical equipment, slave	①	1	for viewing ultrasound imaging by clinicians for procedures, may also be wall mounted
ITNE-071	TELEPHONE: handset, desktop	③	1	
ITNE-102	COMPUTER: dual display screens, central processing unit (CPU), keyboard and mouse, desktop	③	1	
MIUS-011	RACK: ultrasound probes, wall mounted	②	1	
MIUS-021	DEVICE: warmer, ultrasound gel, benchtop	③	1	may be integral to ultrasound machine
MMBE-156	TROLLEY: patient, examination	③	1	selection to suit service requirements, may require cut out section for cardiac scans
MMGE-056	POLE: patient positioning support handle, bed mounted	③	1	optional
MMGE-191	CANNISTER: suction bottle	③	1	
MMTR-002.07	TROLLEY: stainless steel, 600W x 490D x 900H nom, 5 drawer	③	1	



Major Medical Equipment (MME)

CODE	DESCRIPTION	GROUP	QTY	COMMENT
MIUS-001	IMAGING DEVICE: ultrasound	②	1	



Engineering Services

CODE	DESCRIPTION	GROUP	QTY	COMMENT
ELGP-105	GPO: single, wall mounted, cleaner	①	1	
ELGP-106	GPO: single, ceiling mounted	①	1	to slave display screen
ELGP-201	GPO: double, wall mounted	①	1	to workstation, over desk for portable devices
ELGP-201	GPO: double, wall mounted	①	1	
ELGP-231	GPO: double, emergency power, wall mounted	①	2	to workstation
ELGP-231	GPO: double, emergency power, wall mounted	①	1	low height, for examination trolley
ELGP-231	GPO: double, emergency power, wall mounted	①	1	to pathology area for microscope
ELSW-022	SWITCH: light, dimmer, 2-gang	①	1	to general room lighting and indirect lighting
HYDR-201	DIRECT CONNECTION: waste water	①	1	to basin
HYTP-451	DIRECT CONNECTION: water, cold	①	1	to basin
HYTP-453	DIRECT CONNECTION: water, warm	①	1	to basin
ITCL-191	BUTTON: emergency, with cancel, wall mounted	①	1	
ITCL-251	HANDSET: patient to staff call	①	1	
ITIN-036	OUTLET: data, triple RJ45, wall mounted	①	1	to workstation
ITIN-061	OUTLET: data, HDMI, ceiling mounted	①	1	to slave display screen
ITSE-061	BUTTON: security, duress, fixed, wall mounted	①	1	
ITSE-166	INTERCOM: audio, slave, wall mounted	①	1	optional - inclusion dependent on service requirements and ICT policies



Medical Services Panels and Pendants

CODE	DESCRIPTION	GROUP	QTY	COMMENT
Panel 1				
MMSP-051	MEDICAL SERVICES PANEL: wall mounted	①	1	
ELGP-146	GPO: single, emergency power, on service panel	①	8	
ELPR-073	RCD: residual current device, on services panel	①	2	
ITCL-133	BUTTON: patient to staff call, with cancel, with handset connection point, on services panel	①	1	
ITCL-183	BUTTON: staff assist, with cancel, on services panel	①	1	
ITIN-025	OUTLET: data, double RJ45, on services panel	①	2	
ITIN-065	OUTLET: data, HDMI, on services panel	①	2	for connecting ultrasound machine to slave display screen on ceiling, type of AV outlet to be confirmed to suit equipment requirements
MGAS-022	OUTLET: medical air, on services panel	①	1	
MGAS-032	OUTLET: nitrous oxide (N2O), on services panel	①	1	optional - provision of reticulated nitrous oxide to be confirmed to suit project and service requirements
MGAS-042	OUTLET: oxygen (O2), on services panel	①	1	
MGAS-052	OUTLET: scavenge, on services panel	①	1	optional - provided if reticulated nitrous oxide provided, provision of reticulated nitrous oxide to be confirmed to suit project and service requirements
MGAS-062	OUTLET: suction, on services panel	①	1	
MGFP-021	FLOWMETER: medical air	③	1	
MGFP-041	FLOWMETER: oxygen	③	1	
MGFP-061	ADAPTER: suction	③	1	