



MRI Control Room

Room Code	MRI-CTRL
Briefed Area	14.00 m ²
Ceiling Height	2.7 m
Occupancy	up to 3 staff
Hours of Operation	Up to 24 hours

Description | The MRI Control Room provides the space and equipment for remote control of MRI equipment, and the amenities for review of images and reporting. Direct visibility of the patient through an observation window and direct access to the imaging room is required.

Electrical	PROTECTION: body protected	<input 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"/>	Medical Gas	AIRCONDITIONING: positive pressure	<input type="checkbox"/>
	LIGHTING: colour corrected	<input type="checkbox"/>		AIRCONDITIONING: negative pressure	<input type="checkbox"/>
	LIGHTING: dimmable	<input checked="" type="checkbox"/>		VENTILATION: exhaust	<input type="checkbox"/>
	LIGHTING: indirect	<input type="checkbox"/>		VENTILATION: supply	<input type="checkbox"/>
Nurse Call and Duress	NURSE CALL SYSTEM: buttons / handset	<input checked="" type="checkbox"/>		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"/>	MEDICAL GAS: birthing	<input type="checkbox"/>	
	ACCESS CONTROL: to item / joinery	<input type="checkbox"/>	Hydraulic	WATER: drinking	<input 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 type="checkbox"/>
	CCTV: camera coverage within room	<input type="checkbox"/>		DRAINAGE: specialty	<input type="checkbox"/>
	INTRUSION DETECTION: door monitoring	<input type="checkbox"/>	Fire	DETECTION: smoke	<input checked="" type="checkbox"/>
	INTRUSION DETECTION: spatial monitoring	<input type="checkbox"/>		DETECTION: heat	<input type="checkbox"/>
ICT and Audio Visual	AUDIO VISUAL: patient entertainment system	<input type="checkbox"/>	Shielding	SHIELDING: ionising radiation	<input type="checkbox"/>
	AUDIO VISUAL: visitor experience system	<input type="checkbox"/>		SHIELDING: magentic and radio frequency	<input checked="" type="checkbox"/>
	AUDIO VISUAL: virtual collaboration system	<input type="checkbox"/>	Acoustics	SPEECH PRIVACY:	
	AUDIO VISUAL: clinical support system	<input type="checkbox"/>		not private moderate private confidential	
	AUDIO VISUAL: digital operating room system	<input type="checkbox"/>		NOISE SENSITIVITY:	
Accessibility	AUDIO: hearing augmentation	<input type="checkbox"/>		not sensitive medium sensitive sensitive	
	VISUAL: luminance contrast	<input checked="" type="checkbox"/>		NOISE GENERATION:	
	SIGNAGE: accessible, statuary	<input type="checkbox"/>	low moderate high very high		

Additional Considerations

- The MRI Control Room is located within Zone III (the outer controlled area) as set out in the RANZCR MRI Safety Guidelines.
- MRI Imaging Room entrance is to be visible from the MRI Control Room.
- Magnetic and Radiofrequency shielding is to be as advised by specialist consultant.
- Cable ducts for services between the imaging unit, the equipment room and the control room will be required and must be coordinated with the MME vendor. Additional building services connections and outlets are to be coordinated to suit equipment requirements.
- Wavebar ports are required from the Control Room to the MRI Imaging Room.
- The size, quantity and configuration of computer display screens is to be finalised based on the specific image display and processing task requirements (e.g. number of application windows to be viewed concurrently) and ergonomic considerations.

Providing flexibility of monitor positioning is vital to ensure adjustments are possible to meet the ergonomic requirements of different users.

- Provision of height adjustable workstations or fixed joinery is to be in line with service requirements and local WHS policies.
- 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 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
AHWCV-001	WINDOW COVERING: blind, roller, single	
MIMR-105	WINDOW: radio frequency shielding, MRI	



Finishes

CODE	DESCRIPTION	COMMENT
FLVY-101	FLOOR FINISH: vinyl, seamless, standard slip resistance	
FLSK-021	SKIRTING: vinyl, integral with floor vinyl, coved	
WLFI-002	WALL FINISH: paint, clinical areas	
MIMR-112	ACCESS PANEL: penetration, waveguide, MRI	
CLTI-021	CEILING: drop-in tiles, prefinished	
CLCN-041	CORNICE: wall trim fixing, prefinished	



Joinery

CODE	DESCRIPTION	GROUP	QTY	COMMENT
FQSN-341	LOCKER: floor standing, 4 door	③	2	optional
JOBE-061	BENCH: 750D, laminate	①	1	bench height to be confirmed; adjustable height desks may be considered depending on WHS policies and coordination with services and observation window
JOBE-211	BENCH SUPPORT: bracket	①	2	leg support is also acceptable
JOBE-221	BENCH SUPPORT: end panel	①	1	leg support is also acceptable
JOBE-251	CAP: cable access	①	3	



Fittings, Furniture and Equipment (FF&E)

CODE	DESCRIPTION	GROUP	QTY	COMMENT
FIBM-019	WHITEBOARD: fixed, magnetic	②	1	
FIDI-241	DISPENSER: alcohol-based hand rub, wall mounted	②	1	
FIHR-026	HOOK: coat	①	2	optional

CODE	DESCRIPTION	GROUP	QTY	COMMENT
FIHR-201	BRACKET: central processing unit (CPU), under bench/desk	②	2	1 to MRI control CPU, 1 to PACS CPU
FIHR-221	BRACKET: computer display screen, dual, articulated, bench/desk mounted	②	1	to display/processing workstation
FIHR-341	BRACKET: television/AV system display screen, single, articulated, wall mounted	②	1	optional - to CCTV display screen if provided
FIHR-408	BRACKET: patient monitor, articulated, wall mounted	②	1	to slave patient monitor
FQBS-172	CHAIR: office, ergonomic, high	③	3	
FQSM-287	CABINET: mobile, 1800H nominal, tambour unit	③	1	type and extent of storage to suit service requirements
FQWS-051	BIN: general waste, 20L	③	1	
ITAV-102	CONTROL PANEL: AV system, wall mounted	①	1	vendor supplied sound system
ITAV-152	SPEAKER: AV system, ceiling recessed	①	1	
ITCL-381	DISPLAY SCREEN: patient observation	①	1	optional - for physiological monitoring
ITNE-071	TELEPHONE: handset, desktop	③	1	
ITNE-102	COMPUTER: dual display screens, central processing unit (CPU), keyboard and mouse, desktop	③	1	
ITNE-153	COMPUTER: central processing unit (CPU), PACS	③	1	
ITNE-172	DISPLAY SCREEN: computer, PACS	③	2	display/processing workstation, on dual arm bracket
ITNE-201	INPUT DEVICE: keyboard and mouse	③	1	
ITNE-311	PRINTER: desktop	③	1	
ITSE-111	DISPLAY SCREEN: security, CCTV monitoring	③	1	optional
MIGE-046	CONTROL CONSOLE: contrast injector, touch screen	③	1	
MMPM-051	MONITOR: patient, slave	③	1	



Major Medical Equipment (MME)

CODE	DESCRIPTION	GROUP	QTY	COMMENT
MIMR-011	CONTROL CONSOLE: MRI, dual display screens, keyboard and mouse, control unit, microphone and speaker, desktop	②	1	
MIMR-016	COMPUTER: MRI, central processing unit (CPU)	②	1	
MIMR-032	BUTTON: quench, MRI	①	1	



Engineering Services

CODE	DESCRIPTION	GROUP	QTY	COMMENT
ELGP-105	GPO: single, wall mounted, cleaner	①	1	
ELGP-131	GPO: single, emergency power, wall mounted	①	1	optional - to CCTV display screen if provided
ELGP-161	GPO: single, UPS, wall mounted	①	1	to slave patient monitor
ELGP-161	GPO: single, UPS, wall mounted	①	1	
ELGP-201	GPO: double, wall mounted	①	1	to printer
ELGP-231	GPO: double, emergency power, wall mounted	①	6	
ELGP-261	GPO: double, UPS, wall mounted	①	2	to control console, extent of UPS to be confirmed to suit service and equipment requirements

CODE	DESCRIPTION	GROUP	QTY	COMMENT
ELPR-031	PANEL: UPS status indicator, wall mounted	①	1	
ELPR-071	RCD: residual current device, wall mounted	①	1	
ELSW-021	SWITCH: light, dimmer	①	2	to general room lighting, 1 to each door
ELSW-121	BUTTON: emergency stop, wall mounted	①	1	main power emergency stop, refer to equipment manufacturer for safety and compatibility with equipment
HYGE-351	CONTROL PANEL: water pump, cooling	①	1	
ITCL-181	BUTTON: staff assist, with cancel, wall mounted	①	1	
ITCL-181	BUTTON: staff assist, with cancel, wall mounted	①	1	optional - for anaesthetic assist
ITCL-191	BUTTON: emergency, with cancel, wall mounted	①	1	
ITIN-016	OUTLET: data, single RJ45, wall mounted	①	1	optional - to CCTV display screen if provided
ITIN-016	OUTLET: data, single RJ45, wall mounted	①	1	to slave patient monitor
ITIN-026	OUTLET: data, double RJ45, wall mounted	①	2	
ITIN-036	OUTLET: data, triple RJ45, wall mounted	①	3	
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, may be integral function of telephone, to control workstation area
MEGE-001	CONTROL PANEL: HVAC	①	1	
MEGE-081	ALARM: oxygen depletion	①	1	
MGFP-001	ALARM: medical gases, panel, wall mounted	①	1	