## Australasian Health Facility Guidelines

Room Data Sheet





### **MRI Control Room**

Room Code	MRI-CTRL
Briefed Area	14.00 m²
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.

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Electrical	PROTECTION: body protected PROTECTION: cardiac protected		HVAC	HVAC	HVAC	HVAC	HVAC	HVAC	HVAC	HVAC	HVAC	HVAC	HVAC			0	AIRCONDITIONING: general  AIRCONDITIONING: HEPA filtered  AIRCONDITIONING: positive pressure
Lighting	LIGHTING: general LIGHTING: colour corrected LIGHTING: dimmable LIGHTING: indirect			AIRCONDITIONING: negative pressure  VENTILATION: exhaust  VENTILATION: supply  VENTILATION: natural													
Nurse Call and Duress	NURSE CALL SYSTEM: buttons / handset NURSE CALL SYSTEM: annunciator DURESS: fixed DURESS: wireless coverage	<b>A D A</b>	Medical Gas	MEDICAL GAS: general anaesthesia  MEDICAL GAS: special care  MEDICAL GAS: special care, neonatal ventilation  MEDICAL GAS: birthing													
Security	ACCESS CONTROL: to door ACCESS CONTROL: to item / joinery INTERCOM: service communications INTERCOM: security and access control CCTV: camera coverage within room		Hydraulic	WATER: drinking  WATER: specialty  DRAINAGE: sanitary  DRAINAGE: specialty													
	INTRUSION DETECTION: door monitoring INTRUSION DETECTION: spatial monitoring		Fire	DETECTION: smoke  DETECTION: heat													
ICT and Audio Visual	AUDIO VISUAL: patient entertainment system AUDIO VISUAL: visitor experiance system		Shielding	SHIELDING: ionising radiation  SHIELDING: magentic and radio frequency													
	AUDIO VISUAL: virtual collaboration system AUDIO VISUAL: clinical support system AUDIO VISUAL: digital operating room system		Acoustics	SPEECH PRIVACY: not private ······· moderate ······ private ····· confidential NOISE SENSITIVITY:													
Accessibility	AUDIO: hearing augmentation VISUAL: luminance contrast SIGNAGE: accessible, statuatory	□ <b>⋨</b>		not sensitive medium sensitive sensitive NOISE GENERATION:													

# Additional Considerations

- The MRI Control Room is located within Zone III (the outer controlled area) as set out in the RANZCR MRI Safety Guidelines.
- The entrance of the MRI Imaging Room must 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.
- Waveguide ports, also known as penetration panels, are specialised openings in the walls designed to allow the passage of various items like tubing and cables without compromising the magnetic and radiofrequency shielding. Waveguide ports are required from the MRI Control Room to the MRI Imaging Room.

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- 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**

C	ODE	DESCRIPTION	COMMENT
	WIFX-008.04	WINDOW: fixed, internal, single glazed, sill at 1050H, radio frequency shielding	for observation of patient from control room
	AHWCV-001	WINDOW COVERING: blind, roller, single	



#### **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 port, 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	0	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	0	2	leg support is also acceptable
JOBE-221	BENCH SUPPORT: end panel	0	1	leg support is also acceptable
JOBE-251	CAP: cable access	0	3	



### Fittings, Furniture and Equipment (FF&E)

CODE	DESCRIPTION	GROUP	QTY	COMMENT
FIBM-019	WHITEBOARD: fixed, magnetic	2	1	

Issue date: 15.05.2025

Revision: 2

Page: 2 of 4 Room code: MRI-CTRL

CODE	DESCRIPTION	GROUP	QTY	COMMENT
FIDI-241	DISPENSER: alcohol-based hand rub, wall mounted	2	1	
FIHR-026	HOOK: coat	0	2	optional
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	0	1	vendor supplied sound system
ITAV-152	SPEAKER: AV system, ceiling recessed	0	1	
ITCL-381	DISPLAY SCREEN: patient observation	0	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	0	1	



# **Engineering Services**

CODE	DESCRIPTION	GROUP	QTY	COMMENT
ELGP-105	GPO: single, wall mounted, cleaner	0	1	
ELGP-131	GPO: single, emergency power, wall mounted	0	1	optional - to CCTV display screen if provided
ELGP-161	GPO: single, UPS, wall mounted	0	1	to slave patient monitor
ELGP-161	GPO: single, UPS, wall mounted	0	1	
ELGP-201	GPO: double, wall mounted	0	1	to printer
ELGP-231	GPO: double, emergency power, wall mounted	0	6	

Issue date: 15.05.2025

Revision: 2

Page: 3 of 4 Room code: MRI-CTRL

CODE	DESCRIPTION	GROUP	QTY	COMMENT
ELGP-261	GPO: double, UPS, wall mounted	1	2	to control console, extent of UPS to be confirmed to suit service and equipment requirements
ELPR-031	PANEL: UPS status indicator, wall mounted	0	1	
ELPR-071	RCD: residual current device, wall mounted	1	1	
ELSW-021	SWITCH: light, dimmer	0	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	0	1	
ITCL-181	BUTTON: nurse call, staff assist, with cancel, wall mounted	0	1	optional - for anaesthetic assist
ITCL-181	BUTTON: nurse call, staff assist, with cancel, wall mounted	1	1	
ITCL-191	BUTTON: nurse call, emergency, with cancel, wall mounted	1	1	
ITIN-016	OUTLET: data, single RJ45, wall mounted	0	1	to slave patient monitor
ITIN-016	OUTLET: data, single RJ45, wall mounted	1	1	optional - to CCTV display screen if provided
ITIN-026	OUTLET: data, double RJ45, wall mounted	0	2	
ITIN-036	OUTLET: data, triple RJ45, wall mounted	0	3	
ITSE-061	BUTTON: security, duress, fixed, wall mounted	0	1	
ITSE-166	INTERCOM: audio, slave, wall mounted	0	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	0	1	
MEGE-081	ALARM: oxygen depletion	0	1	
MGFP-001	ALARM: medical gases, panel, wall mounted	1	1	

Issue date: 15.05.2025 Revision: 2

Page: 4 of 4
Room code: MRI-CTRL