

Room Name	MRI Room	Room Number	MRIR
Revision	1		
Issue Date	29.05.2019		
BRIEFING			
Briefed Area	46.00 m ²	The use of nitrous oxide in operating theatres, procedural suites and emergency departments is declining due to a range of clinical and environmental concerns. It is, however, still commonly used in maternity and paediatric services. With the exception of maternity and paediatric services, reticulated nitrous oxide and associated scavenge outlets are to be considered optional. Where found to be clinically necessary, provision of nitrous oxide via piped outlets or via cylinder is to be determined at a project level, based on an assessment of expected clinical needs, security of gas sources, operational considerations such as monitoring and measurement of usage, and management of leakage.	
Hours of Operation	Available 24 hours		
Occupancy	1 patient; Up to 3 staff		
Acoustics	Acoustic privacy is required		
Remarks			
Description / Special Requirements	Imaging Room for Magnetic Resonance Imaging (MRI) scanning procedures with an adjacent MRI Equipment Room and Control Room with a direct view of the patient. The Control Room and Equipment room will need to be located in close proximity due to acceptable cable lengths. General anaesthesia may be administered in this room. Additional Design Considerations: The MRI suite design to conform to 4 safety exclusion zones, access control is required. Removable external wall panel to outside wall preferred where possible in order to replace the magnet. Magnetic and radiofrequency shielding are required, specialist consultant advice should be sought. Cable ducts between Control Room and Equipment Room will be required. Imaging equipment to be installed to manufacturer's specifications. Each magnet will have a chiller provided by supplier requiring UPS power, location will be project specific. Structural assessment is required to ensure the floor and access routes to the room will accommodate the weight of the MRI unit. All equipment and fittings in the room to be MRI compatible and constructed of non-ferrous material. Fluorescent luminaires are not permitted in the MRI Room. Consideration should be given to room acoustics - materials that reduce the impact of magnet noise should be included where possible. Temperature and humidity control required.		
SERVICES			
General Requirements	BODY PROTECTED	<input checked="" type="checkbox"/>	CARDIAC PROTECTED <input type="checkbox"/>
Air	AIRCONDITIONING	<input checked="" type="checkbox"/>	AIRCONDITIONING: hepa filtered <input type="checkbox"/>
	AIRCONDITIONING: positive pressure	<input type="checkbox"/>	AIRCONDITIONING: negative pressure <input type="checkbox"/>
	EXHAUST: room exhaust	<input type="checkbox"/>	VENTILATION <input type="checkbox"/>
Lighting	LIGHTING: colour corrected	<input checked="" type="checkbox"/>	LIGHTING: dimmable <input checked="" type="checkbox"/>
	LIGHTING: downlights	<input type="checkbox"/>	LIGHTING: downlights, dimmable <input type="checkbox"/>
	LIGHTING: fluorescent/LED, downlights	<input type="checkbox"/>	LIGHTING: fluorescent/LED, flush with ceiling, tamper proof <input type="checkbox"/>
	LIGHTING: fluorescent/LED, general	<input checked="" type="checkbox"/>	LIGHTING: indirect <input type="checkbox"/>
Nurse Call	NURSE CALL SYSTEM	<input checked="" type="checkbox"/>	

Room Fabrics

AusHFG code	Description	Comment
CLFS-006	CEILING: plasterboard, flush set, suspended, paint, washable	tiled ceiling also acceptable; ceiling treatment to enhance patient experience to be considered
CLCN-008	CORNICE: square set flush between wall and ceiling, paint	
DWPR-005	DOOR PROTECTION: protection plate to 900 AFFL	
DWPR-010	DOOR PROTECTION: to door frame, PVC, prefinished	optional
FLVY-007	FLOOR FINISH: vinyl, seamless, coved, standard slip resistant	
FLSK-010	SKIRTING: vinyl, floor vinyl coved, 150H, prefinished	
WLWA-004	WALL FINISH: paint, acrylic, washable	
WLWA-025	WALL FINISH: vinyl, to 1200 AFFL	

Fittings, Furniture and Equipment (FF&E) Items

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AusHFG code	Description	Group	Qty	Comment
MMGE-002	ADAPTER: suction	3	2	MRI compatible
FIHR-082	BRACKET: for observation camera, MRI compatible, wall mounted	2	2	
FIHR-019	BRACKET: for suction bottle	2	2	MRI compatible
FIJO-212	BULKHEAD: joinery	1	1	to cupboards
MMMI-175	CABIN: radio frequency, faraday cage, MRI	1	1	3 dimensions
MMMI-188	CAMERA: observation, MRI	1	2	with direct view of patient
ITCL-014	CLOCK: analogue, electric	1	1	
FIJO-116	CUPBOARD: tall, double door, adj shelves	1	3	for coils
MMMI-180	DEVICE: imaging, magnet, MRI	1	1	refer to manufacturer's requirements for quench pipes and other associated equipment
MMMI-181	DOOR: radio frequency, MRI	1	1	1200mm clear opening; with door protection to 900mm AFFL
MGFP-002	FLOWMETER: medical air	3	1	MRI compatible
MGFP-004	FLOWMETER: oxygen	3	2	MRI compatible
FQBS-037	FOOTSTOOL	3	1	MRI compatible
MMMI-183	INJECTOR: contrast, MRI	1	1	
MMMI-368	LASER: positioning lights, MRI	2	1	optional, for radiotherapy planning
MMMI-198	MACHINE: anaesthetic, MRI compatible	3	1	
MMMI-199	PANEL: waveguide, MRI	1	4	
MMMI-185	PIPE: quench, MRI	1	1	installed to manufacturer's specifications with minimal bends
ITAV-057	SPEAKER: ceiling recessed	2	1	
MMGE-100	SUCTION BOTTLE	3	2	MRI compatible
MMMI-191	TABLE: patient, fixed, MRI	1	1	detachable table also acceptable; use of detachable table may also negate need for MRI compatible patient transport trolley
MMMI-200	TROLLEY: patient, transport, MRI compatible	3	1	
MMMI-195	WINDOW: radiofrequency, MRI	1	1	1 to control, 1 to anaesthetic preparation

Engineering Services

AusHFG code	Description	Group	Qty	Comment
ELBO-001	BUTTON: emergency stop	1	1	
ITCL-004	BUTTON: nurse call, emergency	1	1	
ITCL-008	BUTTON: nurse call, staff assist	1	1	
ITSE-025	DOOR RELEASE: access control, remote activation	1	1	
ELGP-122	GPO: emergency power, single, on services panel	1	4	
ELGP-123.1	GPO: emergency power, single, wall mounted (V)	1	2	
ELGP-101	GPO: single, ceiling mounted	1	1	1-laser positioning light if required

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AusHFG code	Description	Group	Qty	Comment
ELGP-109	GPO: single, wall mounted	1	1	1-clock
ELGP-110	GPO: single, wall mounted, cleaner	1	1	
ELGP-133	GPO: UPS, single, on services panel	1	2	
ITIN-016	OUTLET: data, single RJ45, wall mounted	1	2	
MGAS-022	OUTLET: medical air (MA), on services panel	1	1	
MGAS-032	OUTLET: nitrous oxide (N2O), on services panel	1	1	
MGAS-042	OUTLET: oxygen (O2), on services panel	1	2	
MGAS-053	OUTLET: scavenge, on services panel	1	1	
MGAS-062	OUTLET: suction, on services panel	1	2	
MMMI-201	PANEL: penetration, MRI	1	1	
ELPR-006	RCD: residual current device	1	2	1 for each UPS & emergency power circuits
MEGE-016	SENSOR: oxygen depletion	1	1	
MMSP-026	SERVICES PANEL: wall mounted	1	1	MRI compatible
ELBO-012	SWITCH: light, dimmer	1	1	
ELPR-007	UPS: status indicator	1	1	