



CT Imaging Room

Room Code	CTIR
Briefed Area	45.00 m ²
Ceiling Height	2.7 m
Occupancy	1 patient; 2-4 staff
Hours of Operation	Up to 24 hours

Description | The CT Imaging Room is designed for undertaking Computed Tomography (CT) scanning with direct overview and access from the adjoining CT Control Room. The CT Imaging Room may have a CT Equipment Room immediately adjacent for accommodating supporting power and control equipment.

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 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 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"/>
ICT and Audio Visual	INTRUSION DETECTION: spatial monitoring	<input type="checkbox"/>	Shielding	DETECTION: heat	<input type="checkbox"/>
	AUDIO VISUAL: patient entertainment system	<input type="checkbox"/>		SHIELDING: ionising radiation	<input checked="" 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"/>			
Accessibility	AUDIO VISUAL: digital operating room system	<input type="checkbox"/>			
	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

- Equipment is to be installed to manufacturer's specifications with sufficient clearances for maintenance access. Installation and replacement access routes should also be considered. Additional building services connections and outlets are to be coordinated to suit equipment requirements. Cable ducts for services between imaging unit, the equipment room (if provided) and the control room will be required and must be coordinated with the MME vendor.
- Radiation shielding requirements are to be assessed and advised by a qualified Radiation Consultant to suit the practice, workload and equipment procured, and all shielding on the Standard Component is indicative.
- An 'X-ray in Use' light system is required with signs that are illuminated when the imaging device is on and turned off when it stops. Signs are to be at all doors entering the imaging room.
- The room will require sufficient clearance to allow access for a patient on a bed. Bed movement into, around and out of the room, and patient transfer should be considered during planning to reduce manual handling.

- Physiological monitoring on a display screen in the CT Control Room may be provided and would need to be supported with a connection provided within the CT Imaging Room. Provision will depend on service requirements and ICT policies.
- Acoustic treatment to be considered to manage noise from the imaging device and the adjacent equipment room. All finishes must be meet infection prevention and control requirements.
- Dimmable light may be considered to support patient comfort. Similarly, feature artwork or back lit panels on the ceiling may be considered above the CT table.
- Depending on service requirements, general anaesthesia may be administered in this room. This must be confirmed by project teams to ensure appropriate workflows are provided to support this model of care, to confirm the correct building services are provided to ensure patient safety, and to determine medical gas system requirements.
- 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 in operating theatres and procedural suites and emergency departments 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.
- Time tracking requirements (i.e. provision of electric or synchronised clock) is to be confirmed to suit service requirements.
- Provision of additional speakers and microphones within the room for communication between staff and the patient from the control area will be dependent on service requirements, final room layout and imaging equipment selection.
- 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.
- 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.
- 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.
- 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-204.02	DOOR: hinged, 2 leaves, 1800 clear opening, solid, shielded	from corridor
AFDPR-006.01	DOOR PROTECTION: plate, to 900H	to both sides of door
AHDEC-021	BUTTON: door release, remote activation, wall mounted	to support bed movement
AHDMO-001	DOOR MOTORISATION: swing	to support bed movement, delayed action closing
DOHI-013.07	DOOR: hinged, 1 leaf, 900 clear opening, solid, shielded, standard vision panel, lead glass, with cover	to control room (see CTIR-CTRL)
AFDPR-001.01	DOOR PROTECTION: kickplate, to 300H	to control room side
AFDPR-006.01	DOOR PROTECTION: plate, to 900H	to imaging room side
DOHI-003.02	DOOR: hinged, 1 leaf, 900 clear opening, solid, shielded	optional - to CT equipment room if provided
AFDPR-001.01	DOOR PROTECTION: kickplate, to 300H	to equipment room side
AFDPR-006.01	DOOR PROTECTION: plate, to 900H	to imaging room side

CODE	DESCRIPTION	COMMENT
WIFX-008.03	WINDOW: fixed, internal, single glazed, sill at 1050H, shielded, lead glass	for observation from control room (see CTIR-CTRL)



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
WLFI-011.06	WALL FINISH: vinyl, to 2100 AFFL	
CLFS-011	CEILING: flush set, suspended	
CLFI-002	CEILING FINISH: paint, clinical areas	
CLCN-031	CORNICE: square set	



Joinery

CODE	DESCRIPTION	GROUP	QTY	COMMENT
JOBE-031	BENCH: 600D, laminate	①	1	
JOCU-221	CUPBOARD: under bench, 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
JODW-032	DRAWER UNIT: under bench, 3 drawers, equal, wire baskets	①	5	type and extent of storage to suit service requirements, operational policies for stock centralisation/decanting and infection prevention and control policies



Fittings, Furniture and Equipment (FF&E)

CODE	DESCRIPTION	GROUP	QTY	COMMENT
FIDI-101	DISPENSER: PPE, disposable masks, wall mounted	②	1	optional
FIDI-106	DISPENSER: PPE, disposable gloves, wall mounted	②	1	
FIDI-111	DISPENSER: PPE, disposable gowns/aprons, wall mounted	②	1	optional
FIDI-181	DISPENSER: cleaning wipes, wall mounted	②	1	optional - for microfibre wipes
FIDI-181	DISPENSER: cleaning wipes, wall mounted	②	1	
FIDI-191	DISPENSER: emesis bags, wall mounted	②	1	optional
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-030	HOOK: equipment, patient slide	①	1	optional - provide if patient slide required
FIHR-101	BRACKET: suction bottle, wall mounted	②	2	
FQCL-211	LINEN CARRIER: dirty, single skip	③	1	

CODE	DESCRIPTION	GROUP	QTY	COMMENT
FQSN-214	SHELVING UNIT: floor standing, adjustable shelves, 600D x 900W x 2100H nominal	③	1	type and extent of storage to suit service requirements, operational policies for stock centralisation/decanting and infection prevention and control policies
FQWS-004	BIN: sharps, clinical, large	③	1	
FQWS-031	CART: sharps bin, clinical	③	1	
FQWS-051	BIN: general waste, 20L	③	1	to basin
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-121	BASIN: type B, handwashing	①	1	
HYTP-067	TAPWARE: basin, tap set, wall mounted, lever handles	①	1	
ITCL-051	CLOCK: electric, analogue	①	1	
ITCL-432	CAMERA: patient observation, wall mounted	①	1	optional - in front of gantry, location as required for adequate patient observation
ITCL-432	CAMERA: patient observation, wall mounted	①	1	location as required for adequate patient observation
MIGE-053	INJECTOR: contrast, ceiling mounted	②	1	mobile and table mounted injectors are also acceptable
MMBE-031	SLIDE: patient transfer	③	1	optional - patient transfer methods and equipment to meet local WHS policies
MMGE-191	CANNISTER: suction bottle	③	2	
MMPM-012	MONITOR: patient, medium acuity, on stand, mobile	③	1	may be wall mounted
MMTR-004.02	TROLLEY: stainless steel, 900W x 490D x 900H nom, 2 tier	③	1	for phantoms



Major Medical Equipment (MME)

CODE	DESCRIPTION	GROUP	QTY	COMMENT
MICT-001	IMAGING DEVICE: computerised tomography (CT), gantry	②	1	
MICT-006	TABLE: patient, computerised tomography (CT)	②	1	



Engineering Services

CODE	DESCRIPTION	GROUP	QTY	COMMENT
ELGP-101	GPO: single, wall mounted	①	1	to clock
ELGP-105	GPO: single, wall mounted, cleaner	①	1	
ELGP-131	GPO: single, emergency power, wall mounted	①	1	optional - to patient observation camera, in front of gantry
ELGP-131	GPO: single, emergency power, wall mounted	①	1	for foot pedal recharge
ELGP-131	GPO: single, emergency power, wall mounted	①	1	to patient observation camera, behind gantry
ELGP-231	GPO: double, emergency power, wall mounted	①	1	to patient monitor on mobile stand
ELGP-231	GPO: double, emergency power, wall mounted	①	4	
ELPR-071	RCD: residual current device, wall mounted	①	3	
ELSW-021	SWITCH: light, dimmer	①	2	to general room lighting, 1 to room entry, 1 to control room entry
ELSW-121	BUTTON: emergency stop, wall mounted	①	1	main power emergency stop, refer to equipment manufacturer for safety and compatibility with equipment

CODE	DESCRIPTION	GROUP	QTY	COMMENT
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: nurse call, emergency, with cancel, wall mounted	①	1	above medical services panel
ITIN-016	OUTLET: data, single RJ45, wall mounted	①	1	optional - to patient observation camera, in front of gantry
ITIN-016	OUTLET: data, single RJ45, wall mounted	①	1	to patient observation camera, behind gantry
ITIN-026	OUTLET: data, double RJ45, wall mounted	①	1	to patient monitor on mobile stand
ITSE-061	BUTTON: security, duress, fixed, wall mounted	①	1	
LIFX-213	LIGHT: illuminated sign, x-ray in use	①	2	outside all room entries, to automatically turn on when modality is in use



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	6	
ELGP-176	GPO: single, UPS, on service panel	①	2	extent of UPS to be confirmed to suit service and equipment requirements
ELPR-033	PANEL: UPS status indicator, on services panel	①	1	
ELPR-073	RCD: residual current device, on services panel	①	2	
ITCL-183	BUTTON: nurse call, staff assist, with cancel, on services panel	①	1	
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	2	
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	2	
MGFP-021	FLOWMETER: medical air	③	1	
MGFP-041	FLOWMETER: oxygen	③	2	
MGFP-061	ADAPTER: suction	③	2	
Pendant 1				
MMSP-104	MEDICAL SERVICES PENDANT: single arm, display screen	②	1	
ITCL-353	DISPLAY SCREEN: patient treatment information, touch screen	①	1	