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Patient Bay - Intensive Care

Room Code	PTB-ICU
Briefed Area	24.50 m²
Ceiling Height	3.0 m
Occupancy	1 patient; 1-2 visitors; 1-2 staff (with up to 6 additional staff as required)
Hours of Operation	24 hours

Description

The Patient Bay - Intensive Care provides an acuity-adaptable environment for the care, treatment and continuous monitoring of patients who are critically ill or have potentially life-threatening conditions.

Electrical

PROTECTION: body protected	☐
PROTECTION: cardiac protected	☑

Lighting

LIGHTING: general	☐
LIGHTING: colour corrected	☑
LIGHTING: dimmable	☑
LIGHTING: indirect	☐

Nurse Call and Duress

NURSE CALL SYSTEM: buttons / handset	☑
NURSE CALL SYSTEM: annunciator	☐
DURESS: fixed	☐
DURESS: wireless coverage	☐

Security

ACCESS CONTROL: to door	☐
ACCESS CONTROL: to item / joinery	☐
INTERCOM: service communications	☐
INTERCOM: security and access control	☐
CCTV: camera coverage within room	☐
INTRUSION DETECTION: door monitoring	☐
INTRUSION DETECTION: spatial monitoring	☐

ICT and Audio Visual

AUDIO VISUAL: patient entertainment system	☑
AUDIO VISUAL: visitor experience system	☐
AUDIO VISUAL: virtual collaboration system	☐
AUDIO VISUAL: clinical support system	☐
AUDIO VISUAL: digital operating room system	☐

Accessibility

AUDIO: hearing augmentation	☐
VISUAL: luminance contrast	☑
SIGNAGE: accessible, statutory	☐

HVAC

AIRCONDITIONING: general	☑
AIRCONDITIONING: HEPA filtered	☐
AIRCONDITIONING: positive pressure	☐
AIRCONDITIONING: negative pressure	☐
VENTILATION: exhaust	☐
VENTILATION: supply	☐
VENTILATION: natural	☐

Medical Gas

MEDICAL GAS: general anaesthesia	☐
MEDICAL GAS: special care	☑
MEDICAL GAS: special care, neonatal ventilation	☐
MEDICAL GAS: birthing	☐

Hydraulic

WATER: drinking	☐
WATER: specialty	☐
DRAINAGE: sanitary	☐
DRAINAGE: specialty	☐

Fire

DETECTION: smoke	☑
DETECTION: heat	☐

Shielding

SHIELDING: ionising radiation	☐
SHIELDING: magnetic and radio frequency	☐

Acoustics

SPEECH PRIVACY:
not private ····· moderate ····· private ····· confidential
NOISE SENSITIVITY:
not sensitive ····· low ····· medium ····· high
NOISE GENERATION:
low ····· moderate ····· high ····· very high

Additional Considerations

Planning Context

- Visual access to the Patient Bay from a Staff Station or other appropriate staff observation point is required and is to be considered during development of the overall department layout.
- This Standard Component shows the bed oriented vertically on the page with the head of the bed toward the window, supporting quick access by staff to either side from the entry to the room. The bed may be re-oriented to provide views to the window as a patient's clinical state improves. The reach of the arms of the pendant should support provision of clinical care when the bed is turned 90 degrees.

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● It is recommended that layouts be consistently handed rather than mirrored to support staff familiarity and standardisation of workflows. Any variation in handing or location of specific items is to be confirmed at project level based on the overall department layout and service requirements.
● A staff write-up/observation workstation may be provided immediately adjacent to the Patient Bay to support clinical observation and documentation. This area is not included within the briefed area of the Standard Component.
● Provision, configuration and quantity of external write-up/observation workstations are to be confirmed as part of the overall unit planning based on the model of care, staff workflows and observation requirements.

Renal Therapies
● Provision of dialysis machines, RO water treatment equipment, dialysis wall boxes and associated cooling water traps is optional and provision to all or a select number of patient spaces is to be confirmed at project level based on the model of care. The selected dialysis system and treatments will determine requirements for water treatment, pipework, flushing, maintenance and wastewater/ effluent management. Requirements are to be coordinated with selected equipment and local engineering guidance. Refer to ‘HPU 360 Intensive Care’ for further information.

Furniture, Fixtures and Equipment (FF&E) Selection
● A wall clock should be visible in all patient rooms. Clocks can support orientation of patients to the time of day, helping to reduce confusion and delirium. However, it has been noted they may also cause distress (e.g. from a sense of time passing too slowly or having lost periods of time). Clock products with the ability to turn off/dim the display may be considered to flexibly respond to patient preferences/needs. The placement of the clock within the room and type of clock provided, including connections to a master clock system, is to be confirmed at a project level.

Information and Communication Technology (ICT)
● Requirements for clinical documentation and access to electronic medical records (eMR) within the room are to be confirmed at project level. ICT configurations may include a workstation on wheels (WoW), fixed bench-mounted computer, wall-mounted system, ceiling-mounted articulated computer support or other device, depending on clinical workflows and local ICT strategies. Where fixed or ceiling-mounted computer equipment is provided, mounting, structural support, ergonomics, and associated services requirements are to be confirmed to suit the selected configuration.
● Patient monitoring is to be connected to the central monitoring system. Requirements for additional monitoring displays, interfaces, connectivity and alarm presentation are to be confirmed based on the selected monitoring system and model of care.
● Requirements for cameras, display screens, remote patient monitoring, telehealth or other virtual-care technologies are to be confirmed based on service requirements and local ICT strategies and policies.

Patient Entertainment System
● Patient entertainment systems may be wall or ceiling mounted. System type, display size, mounting arrangement, structural support, location and associated power/data/AV services are to be confirmed at project level based on local ICT strategies and the selected equipment.
● Where required by the model of care, consideration may be given to displaying selected patient-monitor information on a secondary/slave display. Selected patient-monitor information may also be displayed on the display screen for the patient entertainment system where systems are compatible. Where patient-monitor information cannot be displayed through the patient entertainment system and a secondary display is required, requirements for the additional display and associated services are to be confirmed at project level.

Patient and Visitor Amenity
● Access to natural light and an external outlook is essential. Window location and configuration are to be coordinated with the overall unit layout, patient observation requirements and potential bed orientations. Non-reflected daylight and external views are preferred where practicable. The room layout and clinical-services configuration should allow the bed to be reoriented where appropriate to improve patient access to external views as the patient's clinical condition permits.
● Furniture for carers is to be confirmed at project level based on anticipated length of stay, model of care, operational model for visitor accommodations and potential patient requirements for prolonged presence of support persons. Requirements for linen, carer property storage and folding, packing away or storing sleep furniture when not in use are also to be confirmed. Freestanding carer furniture is recommended where practicable to support flexible room configuration. Furniture and upholstery selection is to consider durability, cleaning processes and local IPC requirements.
● A dedicated power outlet, clearly separated from outlets intended for clinical equipment, is recommended for patient, carer and visitor use and charging of portable devices. Provision of integrated USB or other charging outlets is to align with local ICT and electrical strategies.
● Design requirements arising from local cultural needs are to be confirmed through project stakeholder and community consultation. Refer to AusHFG Culturally Sensitive Planning and Design and applicable jurisdictional policies and guidance for further information.

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Glazing and Privacy

● Consideration of provision of switchable glass in lieu of integral blinds within the Patient Bay would be based on an assessment of maintenance, product lifecycle and downtime requirements. For longevity of the product, switchable glass must be turned off (i.e. be opaque) for a period of time each day; this must be considered in relation to where this product is intended to be used to ensure the downtime requirement does not compromise patient observation.

Work Health and Safety (WHS)

● Mobile duress coverage is to be assessed and planned at a department level and coverage of all patient spaces is to suit local security and WHS policies and operational service requirements.

● The configuration of the patient lifter track (i.e. linear track, H-track, pendant mounted, etc.), weight rating/safe working load (SWL) requirements, and extent (i.e. for bed to chair/wheelchair/commode transfer only, full room coverage, full transfer to ensuite, etc.) are to be confirmed at project level to suit clinical service requirements and local WHS policies for patient handling. Coordination of the lifter track with room lighting, pendants, examination light, patient entertainment system and any ceiling mounted services is to be carefully considered.

Infection Prevention and Control (IPC)

● The handwashing basin is to be located a minimum 1200 mm from the patient bed and positioned so that required bed movement and clinical access are maintained. Refer to AusHFG Part D, Section 4.1.2-5 for further guidance.

● Alcohol-based hand rub (ABHR) may be provided in a wall mounted dispenser or in a holder that can be attached to the end of the patient bed. The location of ABHR is to be confirmed at project level to support staff to comply with the ‘5 Moments of Hand Hygiene’ practices and local IPC policies.

● In accordance with local IPC policies for cleaning shared patient equipment between uses, any requirement for cleaning equipment or consumables within or nearby the room is to be confirmed at project level.

● Requirements for changing and laundering privacy curtains are to be confirmed at project level based on the selected privacy system, operational model and local IPC and WHS policies.

Waste Management

● Size, type and quantity of waste receptacles provided within the room, including sharps bins, are to be confirmed based on service requirements, operational models for waste management, separation of waste streams, frequency of waste removal and local IPC policies.

Finishes

● Notes applied to floor finish ratings relate to AS4586 and associated HB198 requirements. Compliance with current regulations must be verified by project teams on each project.

Medical Services Panels and Pendants

● The content and configuration of the medical services pendants, including the type and quantity of medical gases, power and data outlets, are to be confirmed at project level based on the model of care, service requirements and equipment selection.

● Pendant configurations may comprise a single mounting point with multiple articulated arms or multiple mounting points to provide the required reach around the patient bed. Pendant configuration and arm reach are to support anticipated bed orientations and access to the patient for clinical care.

● Services with significant extracorporeal membrane oxygenation (ECMO) activity, including ECMO retrieval services, may require additional pendant or services provision at the foot of the bed to support equipment placement, vascular access and associated clinical workflows. Requirements are to be confirmed at project level.

● Pendant selection and configuration are to be confirmed at project level based on models of care, equipment selection and maintenance considerations such as the expected service life and provision of appropriate access for inspection, repair and replacement.

Lighting

● Lighting is to support clinical observation, examination and treatment while also allowing adjustment for patient comfort and rest. Lighting characteristics, including colour rendering and colour temperature, are to meet the functional and clinical requirements of the space in accordance with AS/NZS 1680.

● Dimmable, zoned or automated lighting-control strategies, including systems that support day/night or circadian lighting patterns, may be considered based on the model of care and local engineering guidance.

● Light fittings are to be coordinated with medical services pendants, examination lights, patient lifting systems, display screens and other ceiling-mounted equipment to maintain required illumination, operational clearances and equipment movement.

● Direct placement of general light sources above the patient's head should be minimised where practicable, recognising that the patient bed may be repositioned to support different clinical activities and equipment configurations.

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Acoustics

● The acoustic environment is to support patient rest, clinical observation and staff communication while minimising unnecessary noise associated with equipment, alarms, activities and adjacent spaces.

● Detailed acoustic performance and treatment requirements are to be confirmed in accordance with local engineering guidance. Where acoustic treatment is provided to ceilings or walls, materials and finishes are to be suitable for clinical environments and compatible with required cleaning and IPC regimes.

Engineering Services

● Requirements for emergency/standby power and/or uninterruptible power supply (UPS) are to be confirmed based on selected clinical equipment, site infrastructure and a risk assessment of the potential impact of power interruption on patient care and safety.

● Provision of cleaner's power outlets is to be rationalised across the department and spaced in accordance with AS/NZS 3003.

Doors and Windows

CODE	DESCRIPTION	COMMENT
WIFX-058.04	WINDOW: fixed, internal, double glazed, sill at 1050H, with integral blind	to adjacent room to support patient observation
WIFX-058.04	WINDOW: fixed, internal, double glazed, sill at 1050H, with integral blind	to adjacent room to support patient observation
WIOP-256.02	WINDOW: operable, jockey sash, external, double glazed, sill at 750H, with integral blind	

Finishes

CODE	DESCRIPTION	COMMENT
FLVY-101	FLOOR FINISH: vinyl, seamless, standard slip resistance	
FLSK-021	SKIRTING: vinyl, integral with floor vinyl, coved	[FLSK-010]
WLFI-002	WALL FINISH: paint, clinical areas	
WLFI-011.03	WALL FINISH: vinyl, to 1200 AFFL	
CLFS-011	CEILING: flush set, suspended	
CLFI-002	CEILING FINISH: paint, clinical areas	
CLCN-031	CORNICE: square set	[CLCN-008]
WLPR-006.02	WALL PROTECTION: corner guards, to 1050 AFFL	coordinated with adjacent wall protection

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-241	DISPENSER: alcohol-based hand rub, wall mounted	2	1	may alternatively be provided as a bottle in a holder located on the end of the bed
FIHR-151	PANEL: storage baskets, wall mounted	2	2	type and extent of storage for consumables to suit clinical service requirements, operational models for stock centralisation/ decanting and local IPC policies
FIHR-353	BRACKET: patient entertainment system, fixed, ceiling mounted	2	1	
FIRT-051	TRACK: curtain, privacy	1	1	
FQBS-172	CHAIR: office, ergonomic, high	3	1	

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CODE	DESCRIPTION	GROUP	QTY	COMMENT
FQBS-282	RECLINER: visitor, clinical areas, fold out bed	3	1	selected item to suit clinical services requirements, operational models and local IPC policies
FQCL-211	LINEN CARRIER: dirty, single skip	3	1	
FQGE-101	CURTAIN: privacy screen	3	1	a privacy curtain is provided to the glazed door and panel and staff workstation at the front of the room; the use of integral blinds or switchable glass may be considered at project level based on assessment of maintenance, product lifecycle and downtime requirements
FQGE-112	BASKET: storage, for wall mounted panel, small	3	6	type and extent of storage for consumables to suit clinical service requirements, operational models for stock centralisation/ decanting and local IPC policies
FQTA-091	TABLE: overbed, mobile, height adjustable	3	1	
FQWS-073	BIN: recycling, commingled, 50L	3	1	size, type and quantity of bins will be dependent on local waste management policies for waste separation
FQWS-233	BIN: clinical waste, 50L	3	1	size, type and quantity of bins will be dependent on local waste management policies for waste separation
ITBU-471	CLOCK: digital display, electric, synchronised slave, wired internet protocol (IP), wall recessed	1	1	ability to turn off/dim display to be considered to respond to patient preferences/needs
ITCL-301	DISPLAY SCREEN: patient entertainment system	2	1	ability for screen to duplicate patient monitoring information for added visibility in emergency situations to be considered
ITNE-076	TELEPHONE: handset, wall mounted	2	1	
ITNE-111	COMPUTER: workstation on wheels (WOW), medical grade, all-in-one computer, keyboard and mouse, on cart	3	1	alternative arrangement on ceiling mounted articulated arm may be considered at project level to suit clinical requirements and operational models for write-up and observation
LIFX-113	LIGHT: examination, single articulated arm, 1 light head, ceiling mounted	1	1	
MMBE-116	BED: patient, electric, with mattress, intensive care	3	1	
MMBE-211	TRACK: patient lifter, fixed, ceiling mounted	1	1	type, weight rating/SWL and extent to be confirmed at project level to suit clinical service requirements and local WHS policies for patient handling
MMBE-251	CASSETTE MOTOR: patient lifter, for ceiling mounted system	1	1	may be shared between multiple rooms and stored in a central equipment store; where it is dedicated to a room, configuration of the lifting track should consider extension to a 'parking' location that allows the cassette motor to be stored out of the way
MMBE-261	SLING: patient lifter	3	1	may be shared between multiple rooms and stored in a central equipment store
MMGE-019	CHAIR: patient	3	1	
MMGE-381	MACHINE: dialysis	3	1	optional; provision will be dependent on clinical service requirements and operational models regarding the delivery of dialysis
MMGE-386	PROCESSOR: water treatment, dialysis, reverse osmosis (RO), mobile	3	1	optional; provision will be dependent on clinical service requirements and operational models regarding the delivery of dialysis
MMHA-051	DEVICE: ventilator, adult	3	1	
MMTR-002.02	TROLLEY: stainless steel, 600W x 490D x 900H nom, 2 tier	3	1	
MMTR-092	TROLLEY: procedure, 600W x 490D x 900H nom	3	1	

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Engineering Services

CODE	DESCRIPTION	GROUP	QTY	COMMENT
ELGP-105	GPO: single, wall mounted, cleaner	1	1	as required for distribution across the unit in accordance with AS/NZS 3003
ELGP-106	GPO: single, ceiling mounted	1	1	to patient entertainment system
ELGP-131	GPO: single, emergency power, wall mounted	1	1	
ELGP-136	GPO: single, emergency power, ceiling mounted	1	1	to patient lifter track
ELGP-201	GPO: double, wall mounted	1	1	to carer's area
ELGP-231	GPO: double, emergency power, wall mounted	1	3	
ELPR-011	MONITOR: line isolation, wall mounted	1	2	
ELPR-031	PANEL: UPS status indicator, wall mounted	1	1	to UPS outlets on medical services pendant
ELPR-051	PANEL: equipotential (EP) test point, wall mounted	1	1	
ELPR-071	RCD: residual current device, wall mounted	1	1	quantity and type to be confirmed to suit final power provisions
ELPR-081	RCD: residual current device, emergency power, wall mounted	1	2	quantity and type to be confirmed to suit final power provisions
ELSW-001	SWITCH: light	1	1	to night lights; to be coordinated with switch on medical services pendant
ELSW-021	SWITCH: light, dimmer	1	1	to general room lights; to be coordinated with switch on medical services pendant
HYDR-157	TRAP: cooling pit, with sealed lid	1	1	optional, required if dialysis wall box is provided; to support cooling of wastewater from heat disinfection of dialysis machines and portable RO machines
HYDR-201	DIRECT CONNECTION: wastewater, general	1	1	to basin
HYGE-082	WALL BOX: renal dialysis, integral tundish, with 1 water supply connection and 2 drain connections	1	1	optional; provision will be dependent on clinical service requirements regarding the delivery of dialysis; project team to confirm all quick connect fitting and adapter requirements to ensure secure connections with dialysis equipment; water supply via backflow prevention
HYDR-104	*TUNDISH: in wall, with viewing panel*	1	*1*	*Sub item to HYGE-082*
HYDR-201	*DIRECT CONNECTION: wastewater, general*	1	*1*	*Sub item to HYGE-082*
HYDR-201	*DIRECT CONNECTION: wastewater, general*	1	*1*	*Sub item to HYGE-082*
HYTP-451	*DIRECT CONNECTION: water, cold*	1	*1*	*Sub item to HYGE-082*
HYTP-451	DIRECT CONNECTION: water, cold	1	1	to basin tapware
HYTP-453	DIRECT CONNECTION: water, warm	1	1	to basin tapware
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-011	OUTLET: data, single RJ45, ceiling mounted	1	1	to patient entertainment system
ITIN-016	OUTLET: data, single RJ45, wall mounted	1	1	to wall mounted telephone
ITIN-071	OUTLET: MATV, ceiling mounted	1	1	to patient entertainment system; may be replaced with a data outlet or alternate AV outlet depending on system requirements and local ICT policies
ITSE-061	BUTTON: security, duress, fixed, wall mounted	1	1	
LIFX-151	LIGHT: night, wall mounted	1	2	

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Medical Services Panels and Pendants

CODE	DESCRIPTION	GROUP	QTY	COMMENT
Pendant 1				
MMSP-121	PENDANT: double arm, ceiling mounted	2	1	
Pendant 1 - Arm 1				
MMSP-171	MEDICAL SERVICES HEAD: vertical, on pendant arm	2	1	shown to patient's right (services head R); content and configuration to be confirmed based on clinical service requirements and medical equipment selection
ELGP-151	*GPO: single, emergency power, on pendant services head*	1	*8*	
ELGP-181	*GPO: single, UPS, on pendant services head*	1	*2*	
FIHR-104	*BRACKET: suction bottle, on pendant services head*	2	*2*	
FIHR-414	*BRACKET: patient monitor, articulated, on pendant services head*	2	*1*	
ITCL-185	*BUTTON: nurse call, staff assist, with cancel, on pendant services head*	1	*1*	*may be combined on a single face plate with patient to staff call button; placement to support quick access by staff*
ITCL-195	*BUTTON: nurse call, emergency, with cancel, on pendant services head*	1	*1*	
ITIN-024	*OUTLET: data, double RJ45, on pendant services head*	1	*1*	
MGAS-021	*OUTLET: medical air, on pendant services head*	1	*2*	
MGAS-041	*OUTLET: oxygen (O2), on pendant services head*	1	*2*	
MGAS-061	*OUTLET: suction, on pendant services head*	1	*2*	
MGFP-021	*FLOWMETER: medical air*	3	*2*	
MGFP-041	*FLOWMETER: oxygen*	3	*2*	
MGFP-061	*ADAPTER: suction*	3	*2*	
MMGE-047	*POLE: IV, on pendant services head*	3	*1*	
MMGE-191	*CANNISTER: suction bottle*	3	*2*	
MMPM-021	*MONITOR: patient, high acuity*	3	*1*	
Pendant 1 - Arm 2				
MMSP-171	MEDICAL SERVICES HEAD: vertical, on pendant arm	2	1	shown to patient's left (services head L); content and configuration to be confirmed based on clinical service requirements and medical equipment selection
ELGP-151	*GPO: single, emergency power, on pendant services head*	1	*8*	
ELGP-181	*GPO: single, UPS, on pendant services head*	1	*2*	
ELSW-001	*SWITCH: light*	1	*1*	*to night lights; to be coordinated with switch on wall*
ELSW-021	*SWITCH: light, dimmer*	1	*1*	*to general room lights; to be coordinated with switch on wall*
FIHR-104	*BRACKET: suction bottle, on pendant services head*	2	*2*	
ITCL-135	*BUTTON: nurse call, patient to staff call, with cancel, with handset connection point, on pendant services head*	1	*1*	*may be combined on a single face plate with staff assist call button; placement to ensure quick access by staff*
ITCL-253	*HANDSET: nurse call, patient to staff call, with light control, with patient entertainment system control, with speaker*	1	*1*	
ITIN-024	*OUTLET: data, double RJ45, on pendant services head*	1	*1*	
MGAS-021	*OUTLET: medical air, on pendant services head*	1	*2*	
MGAS-041	*OUTLET: oxygen (O2), on pendant services head*	1	*2*	

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CODE	DESCRIPTION	GROUP	QTY	COMMENT
MGAS-061	*OUTLET: suction, on pendant services head*	1	*2*	
MGFP-021	*FLOWMETER: medical air*	3	*2*	
MGFP-041	*FLOWMETER: oxygen*	3	*2*	
MGFP-061	*ADAPTER: suction*	3	*2*	
MMGE-047	*POLE: IV, on pendant services head*	3	*1*	
MMGE-191	*CANNISTER: suction bottle*	3	*2*	

For guidance on how to use the Room Data Sheet, please visit the AusHFG website.

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