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Patient Bay - Neonatal, Intensive Care / High Dependency

Room Code	PTB-NEO-IC
Briefed Area	16.50 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 - Neonatal, Intensive Care / High Dependency provides space, services and facilities for the care of premature, medically unstable and/or critically ill newborns. The patient bay supports family-integrated care, including amenities for parents and families to participate in care, undertake skin-to-skin contact (kangaroo care), breastfeed or express breast milk, and remain with the newborn for extended periods.

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

Clinical Requirements

- A minimum clear working zone of 1000 mm around the humidicrib/care station is to be maintained free of fixed items to support staff and equipment access, including during emergency response.
- Requirements for receiving critically ill newborns transferred by neonatal and paediatric transport services are to be confirmed at project level based on equipment, staffing and service requirements of both the unit and the transport service.

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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.

● It is recommended that Patient Bay 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.

● Patient bays may be configured with half-height or full-height side walls. Wall height, inclusion of glazing, location of wall-mounted items and privacy-screening arrangements are to be confirmed as part of the overall unit planning, taking into consideration patient observation, family privacy and clinical workflows.

● Where half-height walls are provided, privacy curtains may extend above the partition to provide visual privacy when required. Ceiling-mounted privacy curtains and tracks are optional; portable screens may alternatively be used depending on the operational model and IPC requirements.

● Accommodation for multiples, including twins, triplets or higher-order multiples, is to be considered during overall unit planning. This may include a proportion of adjacent bays configured without a separating wall or using another arrangement that supports care of newborns and families together.

● Access to the Patient Bay for mothers who remain inpatients is to be considered as part of the overall unit layout and circulation strategy. Where a mother may attend the Patient Bay on a patient bed rather than in a wheelchair, sufficient space is to be provided for the bed to be located temporarily without obstructing circulation or access to adjacent Patient Bays. The temporary bed position is to allow staff access to the head of the bed and sufficient space to respond should the mother's condition deteriorate.

Enclosed Patient Bays

● Depending on the model of care and overall unit planning, enclosed patient bays may be provided. Where a bay is enclosed, a Type A handwashing basin and glazed sliding door with a minimum 1400mm clear opening are to be provided. Additional area will be required to accommodate the basin, door circulation and any dedicated linen or waste receptacles required by the operational model.

● For enclosed bays, the type and extent of glazing and provision of privacy treatments are to be confirmed to balance patient observation, family privacy and IPC requirements.

● Where an enclosed bay is required to function as an isolation room, additional requirements may apply, including direct access to a dedicated ensuite, provision of an anteroom, access to personal protective equipment (PPE), dedicated hand hygiene facilities, and engineering requirements for air handling and pressure. Refer to ‘AusHFG Part D: Infection Prevention and Control’ and ‘AusHFG Isolation Room - Engineering and Design Requirements’ for further guidance.

Furniture, Fixtures and Equipment (FF&E) Selection

● Requirements for the storage of expressed breast milk and/or formula are to be confirmed at project level based on the unit's operational model. Storage may be provided within individual Patient Bays or in a centralised location on the unit. Where refrigerators are provided within Patient Bays for breast milk or formula storage, requirements for temperature monitoring and connection to the Building Management System (BMS) are to be confirmed in accordance with local policies.

● Furniture for family is to support prolonged presence within the patient bay and activities including breastfeeding, expressing breast milk, skin-to-skin contact (kangaroo care), sitting and sleeping. Furniture type and configuration are to be confirmed at project level, and finishes/upholstery selection is to consider durability, cleaning processes and products, and local IPC requirements. Fixed joinery items may be considered; however, freestanding furniture is recommended where practicable to support flexible configuration of the bay.

● Requirements for linen, temporary storage of family property and the folding, packing away or storage of furniture used for sleeping are to be confirmed at project level.

● Provision and storage of additional visitor chairs that may be shared between patient bays and brought into a bay for short periods are to be considered as part of the overall unit FF&E and storage strategy.

● Furniture selection should consider appropriate weight ratings and dimensions to suit the anticipated users, including bariatric capacity where required. Selection of visitor seating should also consider provision of a mix of chairs with and without armrests to support different body sizes, independent transfers and mobility.

● Refer to HPU 390 Neonatal Care Unit for guidance regarding family overnight-stay and rooming-in accommodation provided separately from the patient bay.

Family and Visitor Amenity

● Access to natural light and an external outlook is desirable and may be provided directly to individual patient bays or shared across a group or pod of bays. Window location and configuration will be dependent on the overall unit layout.

● External windows are to support control of daylight, including the ability to substantially reduce or block light where required for newborn and family rest. Window-covering selection is to meet local cleaning and IPC requirements. Integral blinds are recommended within high acuity patient care areas; refer to AusHFG Part D, Section 6.4 for further guidance.

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● A dedicated power outlet, clearly separated from clinical services on the medical services panel or pendant, is recommended for family 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.

Information and Communication Technology (ICT)

● Requirements for clinical documentation and access to electronic medical records (eMR) within the Patient Bay are to be confirmed at project level. ICT configurations may include a workstation on wheels (WoW), wall-mounted computer or other mobile devices depending on clinical workflows and local ICT strategies.

● Where WoWs are used, requirements for parking and charging are to be considered as part of overall unit planning. Where wall-mounted computers are provided, wall construction, mounting, power and data requirements are to be coordinated with the selected equipment. Where paper-based or hybrid medical record systems remain in use, any requirement for document storage or holders within the bay is to be confirmed at project level.

● Additional ICT requirements, such as cameras, display screens and remote patient monitoring, for telehealth or other virtual care workflows are to be confirmed based on service requirements, selected equipment and local ICT strategies and policies.

Nurse Call

● Nurse call system configuration, including any provision of ‘quiet call’ functionality using handheld or mobile devices to reduce environmental noise, is to be confirmed at project level based on clinical workflows, alarm-management strategies and local ICT policies.

Work Health and Safety (WHS)

● Mobile duress coverage is to be assessed and planned at department level to meet local security and WHS policies and operational service requirements.

Infection Prevention and Control (IPC)

● A Type A handwashing basin is to be provided nearby and may be shared between 4–6 patient bays, subject to overall unit planning and ease of access from each bay. Refer to AusHFG Part D, Section 4.1.2-5 for further guidance.

● The location and quantity of alcohol-based hand rub (ABHR) dispensers are to be confirmed at project level to support staff compliance with the ‘5 Moments of Hand Hygiene’ and local IPC policies, and to support use by families and visitors as required.

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

Waste Management

● A trolley mounted sharps bin is indicated in this Standard Component. Depending on clinical service requirements and local waste management policies, sharps bins may alternatively be wall mounted.

● Size, type and quantity of waste bins provided within the room, including sharps bins, will be dependent on services requirements, operational models for waste management (including separation of waste streams and frequency of waste removal) and local infection prevention and control (IPC) policies.

Medical Services Panels and Pendants

● Services may be provided using ceiling mounted pendants, medical services panels (MSPs) or another appropriately coordinated configuration. 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.

● Where a wall-mounted medical services panel is provided in lieu of a pendant, a 2700 mm ceiling height is suitable. A 3000 mm ceiling height is indicated in this Standard Component to accommodate pendant installation, articulated arms and operational clearances. Final ceiling height is to be coordinated with the selected equipment.

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

Medical Gases

● Where nitric oxide therapy is provided, requirements for scavenging are to be confirmed based on the selected delivery system and local WHS requirements. This may include provision of a dedicated scavenging outlet or mobile scavenging equipment.

● The frequency of use and secure storage of nitric oxide cylinders is to be confirmed at project level to suit service requirements and operational models for medical gas cylinder storage.

Engineering Services

● Requirements for isolated electrical supply and provision of a line isolation monitor are to be confirmed at project level based on the medical procedures, equipment and electrical safety requirements applicable to the patient bay.

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● Requirements for emergency/standby power and/or uninterruptible power supply (UPS) are to be confirmed at project level based on the selected equipment, service requirements and a risk assessment of the potential impact of power interruption on newborn care and safety.
● Provision of cleaner's power outlets is to be rationalised across the department and spaced in accordance with AS/NZS 3003.

Lighting
● Lighting within patient bays and adjacent circulation areas is to support adjustment of light levels throughout the day and night, taking into consideration newborn development, clinical observation, procedures, family activities and rest. General lighting is to be dimmable, with zoning and controls that allow the newborn care area and family area to be controlled independently where required. Direct overhead light onto the newborn should be minimised.
● Cyclic lighting or other lighting-control strategies that support day/night patterns may be considered and are to be confirmed at project level in association with local engineering guidance.

Acoustics
● The acoustic environment is to support newborn care, sleep, family presence 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.

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	
WLFI-011.03	WALL FINISH: vinyl, to 1200 AFFL	
CLFS-011	CEILING: flush set, suspended	finish to be suitable for clinical environments, refer to local engineering services guidance for acoustic performance requirements (i.e. reverberation time control, sound absorption class, etc.)
CLFI-002	CEILING FINISH: paint, clinical areas	
CLCN-031	CORNICE: square set	
WLPR-006.03	WALL PROTECTION: corner guards, to 1200 AFFL	

Joinery

CODE	DESCRIPTION	GROUP	QTY	COMMENT
JOBE-001	BENCH: 450D, laminate	1	1	
JOCU-221	CUPBOARD: under bench, double door	1	1	for storage of family member property, may be lockable

Fittings, Furniture and Equipment (FF&E)

CODE	DESCRIPTION	GROUP	QTY	COMMENT
FIBM-019	WHITEBOARD: fixed, magnetic	2	2	
FIDI-241	DISPENSER: alcohol-based hand rub, wall mounted	2	2	
FIHR-115	BRACKET: sharps bin, trolley mounted	2	1	
FIRT-051.03	TRACK: curtain, privacy, U-shaped	1	1	optional, portable screens in lieu of ceiling mounted privacy curtains

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CODE	DESCRIPTION	GROUP	QTY	COMMENT
FQBS-101	CHAIR: visitor, clinical areas	3	1	
FQBS-172	CHAIR: office, ergonomic, high	3	1	
FQBS-284	RECLINER: visitor, clinical areas, lay flat, kangaroo care	3	1	
FQCA-211	APPLIANCE: bottle warmer, benchtop, domestic	3	1	
FQGE-101	CURTAIN: privacy screen	3	1	optional, portable screens in lieu of ceiling mounted privacy curtains
FQWS-003	BIN: sharps, clinical, medium	3	1	
ITCL-464	CAMERA: patient observation, neonatal, crib mounted	1	1	
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	
LIFX-121	LIGHT: procedure, minor, single articulated arm, 1 light head, ceiling mounted	1	1	
MMGE-045	POLE: IV, mobile	3	2	
MMGE-311	DEVICE: pump, breast milk	3	1	
MMGE-349	DEVICE: amplitude-integrated electroencephalography (aEEG), with trolley	3	1	optional
MMGE-371	DEVICE: patient, warming/cooling	3	1	optional
MMMA-016	INCUBATOR: infant, closed cot, humidicrib	3	1	
MMMA-131	FRIDGE: milk, 15L nominal, single door, benchtop	3	1	provision to suit local jurisdictional policies for breast milk storage to be centralised or decentralised; temperature monitoring is required
MMTR-053	TROLLEY: airway/intubation, 750W x 490D x 900H nom	3	1	

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-136	GPO: single, emergency power, ceiling mounted	1	1	to procedure light
ELGP-231	GPO: double, emergency power, wall mounted	1	4	
ELPR-011	MONITOR: line isolation, wall mounted	1	1	
ELPR-051	PANEL: equipotential (EP) test point, wall mounted	1	1	
ELSW-001	SWITCH: light	1	1	
ITCL-121	BUTTON: nurse call, patient to staff call, with cancel, wall mounted	1	1	
ITCL-251	HANDSET: nurse call, patient to staff call	1	1	
ITIN-016	OUTLET: data, single RJ45, wall mounted	1	2	1 to wall mounted telephone, 1 to milk fridge
ITIN-026	OUTLET: data, double RJ45, wall mounted	1	1	to write-up area
LIFX-151	LIGHT: night, wall mounted	1	1	
LIFX-161	LIGHT: reading, wall mounted	1	1	to family area

Medical Services Panels and Pendants

CODE	DESCRIPTION	GROUP	QTY	COMMENT
Pendant 1				

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CODE	DESCRIPTION	GROUP	QTY	COMMENT
MMSP-121	PENDANT: double arm, ceiling mounted	2	1	coordinate provision of access panel on ceiling adjacent to pendant for maintenance
Pendant 1 - Arm 1				
MMSP-171	MEDICAL SERVICES HEAD: vertical, on pendant arm	2	1	
ELGP-151	*GPO: single, emergency power, on pendant services head*	1	*6*	
ELGP-181	*GPO: single, UPS, on pendant services head*	1	*2*	
ELPR-034	*PANEL: UPS status indicator, on pendant services head*	1	*1*	
ELPR-073	*RCD: residual current device, on services panel*	1	*1*	
ELSW-001	*SWITCH: light*	1	*1*	
FIHR-104	*BRACKET: suction bottle, on pendant services head*	2	*2*	
FIHR-215	*BRACKET: computer display screen, single articulated, on pendant services head*	2	*1*	
FIHR-428	*BRACKET: ventilator, continuous positive airway pressure (CPAP), on pendant services head*	2	*1*	
ITCL-125	*BUTTON: nurse call, patient to staff call, with cancel, on pendant services head*	1	*1*	
ITCL-185	*BUTTON: nurse call, staff assist, with cancel, on pendant services head*	1	*1*	
ITIN-014	*OUTLET: data, single RJ45, on pendant services head*	1	*3*	
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*	
MGFP-081	*BLENDER: oxygen (O2) and medical air (MA)*	3	*1*	
MMGE-191	*CANNISTER: suction bottle*	3	*2*	
MMHA-061	*DEVICE: ventilator, neonatal*	3	*1*	
MMHA-064	*DEVICE: ventilator, neonatal, CPAP*	3	*1*	
MMPM-026	*MONITOR: patient, high acuity, neonatal*	3	*1*	
Pendant 1 - Arm 2				
MMSP-171	MEDICAL SERVICES HEAD: vertical, on pendant arm	2	1	
ELGP-151	*GPO: single, emergency power, on pendant services head*	1	*6*	
ELGP-181	*GPO: single, UPS, on pendant services head*	1	*2*	
ELPR-034	*PANEL: UPS status indicator, on pendant services head*	1	*1*	
ELPR-073	*RCD: residual current device, on services panel*	1	*1*	
FIHR-104	*BRACKET: suction bottle, on pendant services head*	2	*2*	
ITCL-125	*BUTTON: nurse call, patient to staff call, with cancel, on pendant services head*	1	*1*	
ITIN-014	*OUTLET: data, single RJ45, on pendant services head*	1	*3*	
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*	

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CODE	DESCRIPTION	GROUP	QTY	COMMENT
MGFP-041	*FLOWMETER: oxygen*	3	*2*	
MGFP-061	*ADAPTER: suction*	3	*2*	
MMGE-191	*CANNISTER: suction bottle*	3	*2*	
MMGE-291	*DEVICE: pump, infusion, single*	3	*2*	

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

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