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Patient Bay - Renal Dialysis

Room Code	PTB-REN
Briefed Area	9.00 m²
Ceiling Height	2.7 m
Occupancy	1 patient; 1 visitor; 1-2 staff intermittently
Hours of Operation	7am to 9pm, daily (dependent on unit operating hours)

Description

The Patient Bay - Renal Dialysis provides the space and facilities for patients to receive dialysis therapies under the care and observation of staff within an in-centre or community/satellite Renal Dialysis Unit. Treatments typically take between 3 to 6 hours, with patients receiving treatment up to 3 days per week.

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

- The configuration of patient bays, i.e. in pods, with ‘services islands’, in a racetrack layout with bays around the perimeter, etc. is to be developed to suit service requirements, patient and staff safety, staffing ratios, patient observation, and orientation to natural light and views.
- Observation of patients within the patient bays is to be supported by providing clear lines of sight from a staff station. The patient bay may be configured with side walls – inclusion, height and extent of side walls is to be determined at project level to suit the overall department layout and requirements for patient observation.

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● Requirement for left-side or right-side vascular access will differ between patients. Vascular access is typically provided in the patient's non-dominant arm, and this Standard Component shows the dialysis machine on the patient's left. A number of patient bays may be 'mirrored' to provide a proportion that support vascular access on the patient's right. The percentage of mirrored bays to be provided is to be confirmed at project level.

Important Dimensions and Clearances

● As required to suit service requirements and patient cohort, the area and clearances within the patient bay may need to support the provision of either a recliner or bed interchangeably. Storage for recliners/beds when switched out of the patient bay is to be confirmed at project level to suit operational models.

● The recliner is positioned away from the back of the patient bay to ensure it can be fully reclined without hitting or obstructing bedhead mounted services or equipment. As the recliner is mobile and may occasionally be replaced with a bed, a quick method for consistently identifying an appropriate clearance distance from the bedhead can assist staff with correct positioning. To address this, this Standard Component shows a section of inset vinyl flooring extending from the bedhead. This provides a clear, durable visual cue for placement. Alternative approaches may be considered; however, fixed elements such as wheel stops or rumble strips are not recommended. These introduce junctions that are difficult to clean and may create trip hazards when the recliner is not present. Similarly, temporary surface applications such as stickers are not supported due to IPC risks, as adhesives can trap dirt, are difficult to clean effectively, and are not practical to maintain or replace regularly.

Enclosed Patient Bays

● Some enclosed patient bays may be required (e.g. for isolation of infectious patients, isolation of immunocompromised patients, to meet cultural requirements, for escorted patients from correction centres, etc.) as determined by clinical services planning and functional briefing.

● Where a patient bay is enclosed, a handwashing basin (Type B) and a 1 1/2 leaf door (minimum 1400 clear opening) are to be provided. Additional area will be required to accommodate the basin, the entry door and associated circulation and, depending on operational models, dedicated dirty linen and waste receptacles.

● Where direct access is provided to a toilet/ensuite from the enclosed room, area for the toilet/ensuite door and associated circulation will also be required.

● The extent of glazing to an enclosed bay is to be determined at project level to suit the overall department layout and requirements for patient observation.

● Provision of integral blinds or extension of the privacy curtain tracks over internal windows is to be determined to suit requirements for observation, patient privacy and IPC requirements.

● For requirements for enclosing and adapting this Standard Component for provision of a pressurised isolation room (e.g. provision of an anteroom, access to PPE, air handling and pressure requirements, etc.) refer to 'AusHFG Part D: Infection Prevention and Control' and 'AusHFG Isolation Room- Engineering and Design Requirements'.

Medical Services Panels (MSPs)

● The content and configuration of the MSPs, including medical gases, power and data, will be dependent on service requirements and equipment selection, and is to be confirmed at project level.

● This Standard Component shows a joinery bedhead for reticulation of services, with in-wall MSP configurations also being acceptable. The configuration should be confirmed at a project level, with the selected solution demonstrating access for repair and maintenance of services, with particular emphasis on access to the unique hydraulic services for RO water and drainage.

Information and Communication Technology (ICT) / Audio Visual (AV)

● Patient entertainment systems may be mounted on the ceiling or wall/bedhead. Configuration of the patient entertainment system, including type, size, mounting method and location, is to be confirmed at project level to align with operational models and local ICT strategies and policies. Services requirements (power, data and/or audiovisual connections) are to be confirmed based on the selected systems. Adequate structural support is to be provided in the ceiling or wall/bedhead for safe installation of the patient entertainment system.

● As patient entertainment systems are allocated to multiple open patient bays, confirming a solution for audio isolation to the patient (e.g. inclusion of a headphone connection jack on the patient handset or intuitive wireless headphone connection to the patient entertainment system) is recommended to reduce disturbance between patient bays.

● Electronic medical record (eMR) input may be performed on a wirelessly connected workstation on wheels (WOW) that is shared between a number of patient bays and rationalised across the unit, with quantity to suit service requirements and staffing models. Ensure circulation space is sufficient for data entry within the patient bay. Parking areas for WOWs and facilities for battery/equipment charging are required to support this model of care.

Work Health and Safety (WHS)

● The clear area required for using and operating patient transfer aids, such as mobile lifter hoists, patient slides and hover mats, and the staff required to assist/complete the patient transfer, for transfers to and from recliners/beds should be assessed and

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verified. Local WHS policies and the patient transfer devices that are intended to be used in the patient bay should be confirmed at project level to support this assessment.
● Mobile duress coverage requirements are to be assessed and planned at a department level and coverage of all patient bays is to meet service requirements and local security and WHS policies.

Infection Prevention and Control (IPC)
● Alcohol-based hand rub (ABHR) is shown in a wall mounted dispenser but may be provided in a holder that can be attached to a trolley or to the recliner/bed. The location of ABHR is to be confirmed to support staff to comply with local IPC policies, the '5 Moments of Hand Hygiene' practices and to support use by patients and visitors as required.
● A handwashing basin is to be located nearby and may be shared between up to 4 patient bays. Refer to Part D Section 4.1.2-5 for more information.
● The type, materiality and cleaning requirements of window coverings are to be confirmed at project level to suit local IPC policies and risk assessments; refer to Part D Section 6.4 for more information.

Waste Management
● A wall mounted sharps bin is indicated in this Standard Component. Depending on service requirements and local waste management policies, sharps bins may alternatively be trolley or cart mounted and stored in a central location shared between patient bays, being brought into the space only as required.

Patient and Visitor Amenity
● Access to natural light is required and providing an external outlook is desired. Patient privacy and overlook must also be considered when determining window placement. A window is located indicatively in this Standard Component; however, final window location and size will be dependent on overall department layout. Windows may be located on a nearby wall to provide light and views to multiple patient bays.
● Provision for the temporary storage of patient property (e.g. wall-mounted baskets, coat hooks, etc.) should be considered for patient and visitor comfort and convenience.
● A dedicated power outlet, clearly separate from the MSP, is recommended to support patient and visitor use for charging of portable devices. Inclusion of integral USB outlets may be considered and provision will depend on local ICT strategies and policies.
● The interior design of the unit, and by extension, the patient bay, should seek to provide a comfortable and calm environment for patients receiving treatment, including for people with cognitive disabilities and people who are neurodiverse. Facilities such as dimmable lighting and acoustic treatments to reduce noise transfer that are appropriate for use clinical spaces may be considered at project level to meet the needs of local communities.

Finishes
● Selection of finishes, particularly flooring and applied wall finishes, must take into consideration appropriate resistance to chemicals/solutions that are used within the Renal Dialysis Unit.

Acoustics
● Achieving speech privacy is inherently limited in spaces without physical boundaries (i.e. partitions and doors). Accordingly, this open patient bay is classified as 'not private'. In these areas, the need for speech privacy and the impact of noise transfer must instead be managed operationally.

Engineering Services
● The layout and services in this Standard Component assume provision of plumbed RO water from a dedicated water treatment plant. Based on assessment of cost, frequency of use and water quality risk, small services may choose to utilise portable RO units with appropriate pre-treatment mounted on trolleys. If provided, the requirements for portable RO units, such as spatial allocation, services connections and feed water, are to be confirmed at project level.
● The configuration of the dialysis wall box, and the connections required to suit the selected dialysis machines (e.g. quick connect fittings and adapters) are to be confirmed at project level to ensure secure connections with dialysis equipment are achieved. Access for cleaning and maintenance of the tundish and accessible pipework must also be considered.
● For cooling discharged waste water from dialysis machine heat disinfection, a cooling trap with sealed lid is indicated in this Standard Component. This may be shared between multiple patient bays, and the capacity of the trap is to be confirmed to suit the number of wall boxes to which it is connected. In the event of a connection/hose malfunction, the lid of the cooling trap may be temporarily opened to support clean-up of large volumes of water.
● Requirements for specialty drainage, such as selecting corrosion-resistant materials that are suitable for handling disposal of dialysate or heat-resistant materials for handling discharged waste water, must be confirmed at project level.
● Provision and extent of emergency/standby power or uninterruptible power supply (UPS) is to be confirmed to suit site and service requirements. Confirmation is to be based on a risk assessment considering the impact of a power outage on patient care/safety.
● Provision of cleaner's power outlets is to be rationalised across the department and spaced in accordance with AS/NZS 3003.

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Doors and Windows

CODE	DESCRIPTION	COMMENT
WIFX-162	WINDOW: fixed, external, double glazed, sill at 1650H	access to natural light is required and an external outlook is desirable; window location and size will be dependent on overall department layout
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	
WLFI-011.04	WALL FINISH: vinyl, to 1500 AFFL	optional, provide where patient bay is configured with side walls
WLPR-006.04	WALL PROTECTION: corner guards, to 1500 AFFL	optional, provide where patient bay is configured with side walls
CLTI-024.02	CEILING: drop-in tiles, anti-microbial, acoustic, prefinished, 600 x 1200	flush set ceiling is also acceptable
CLCN-041	CORNICE: wall trim fixing, prefinished	to be square set cornice if flush set ceiling is provided
WLPR-002	WALL PROTECTION: bedhead wall panel, low height	

Joinery

CODE	DESCRIPTION	GROUP	QTY	COMMENT
JOBH-001	BEDHEAD: low height	1	1	

Fittings, Furniture and Equipment (FF&E)

CODE	DESCRIPTION	GROUP	QTY	COMMENT
FIDI-241	DISPENSER: alcohol-based hand rub, wall mounted	2	1	may alternatively be provided as a bottle in a holder located on the trolley or recliner
FIHR-026	HOOK: coat, wall mounted	1	2	
FIHR-101	BRACKET: suction bottle, wall mounted	2	1	
FIHR-111	BRACKET: sharps bin, wall mounted	2	1	optional, sharps bin may alternatively be provided on a dedicated cart or on a clinical trolley that is shared across the unit and brought to the patient bay as required; solution to suit clinical services requirements and local IPC policies
FIHR-161	BRACKET: storage basket, wall mounted	2	1	type and extent of storage for consumables is to be confirmed to suit clinical services requirements, operational models for stock centralisation/decanting and local IPC policies
FIHR-353	BRACKET: patient entertainment system, fixed, ceiling mounted	2	1	configuration of patient entertainment system will be dependent on operational models and local ICT strategies and policies
FIRT-051	TRACK: curtain, privacy	1	1	
FQBS-101	CHAIR: visitor, clinical areas	3	1	

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CODE	DESCRIPTION	GROUP	QTY	COMMENT
FQGE-101	CURTAIN: privacy screen	3	1	
FQGE-113	BASKET: storage, for wall mounted panel, medium	3	1	type and extent of storage for consumables is to be confirmed to suit clinical services requirements, operational models for stock centralisation/decanting and local IPC policies
FQTA-092	TABLE: overbed, mobile, height adjustable, split tilt top	3	1	
FQWS-003	BIN: sharps, clinical, medium	3	1	optional, size to suit clinical services requirements and operational models for frequency of disposal; may alternatively be provided on a dedicated cart or on a clinical trolley that is shared across the unit and brought to the patient bay as required; solution to suit clinical services requirements and local IPC policies
ITCL-301	DISPLAY SCREEN: patient entertainment system	2	1	configuration of patient entertainment system will be dependent on operational models and local ICT strategies and policies
MMBE-091	CHAIR: patient, recliner, clinical, electric	3	1	selected item to be able to lay flat, weight capacity requirements to be confirmed at project level
MMGE-191	CANNISTER: suction bottle	3	1	
MMGE-381	MACHINE: dialysis	3	1	
MMTR-081	TROLLEY: intravenous, 490W x 490D x 900H nom	3	1	

Engineering Services

CODE	DESCRIPTION	GROUP	QTY	COMMENT
ELGP-106	GPO: single, ceiling mounted	1	1	to patient entertainment system; services to be confirmed to suit selected system
ELGP-111	GPO: single, joinery mounted	1	1	to bedhead for patient and visitor use to charge portable devices; inclusion of integral USB outlets is dependent on local ICT policies
ELGP-111	GPO: single, joinery mounted	1	1	to bedhead at low height for recliner
ELGP-141	GPO: single, emergency power, joinery mounted	1	1	to bedhead for dialysis machine
ELPR-071	RCD: residual current device, wall mounted	1	1	quantity and type to be confirmed to suit finalised power allocations
ELPR-081	RCD: residual current device, emergency power, wall mounted	1	1	quantity and type to be confirmed to suit finalised power allocations
HYDR-157	TRAP: cooling pit, with sealed lid	1	1	may be shared between multiple patient bays, with water volume to suit number of patient bays to be served
HYGE-081	WALL BOX: renal dialysis, integral tundish, with 1 water supply connection and 1 drain connection	1	1	project team to confirm all quick connect fitting and adapter requirements to ensure secure connections with dialysis equipment
HYDR-104	*TUNDISH: in wall, with viewing panel*	1	*1*	*Sub item to HYGE-081*
HYDR-201	*DIRECT CONNECTION: wastewater, general*	1	*1*	*Sub item to HYGE-081*
HYTP-458	*DIRECT CONNECTION: water, reverse osmosis (RO)*	1	*1*	*Sub item to HYGE-081*
ITCL-111	LIGHT: nurse call indicator, ceiling mounted	1	1	outside curtain at foot of recliner; location to ensure visibility along paths of travel
ITCL-181	BUTTON: nurse call, staff assist, with cancel, wall mounted	1	1	may be combined on a single face plate with patient to staff call button; located to support quick access by staff
ITCL-191	BUTTON: nurse call, emergency, with cancel, wall mounted	1	1	located to support 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	with holder and cable management items as required

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CODE	DESCRIPTION	GROUP	QTY	COMMENT
ITIN-018	OUTLET: data, single RJ45, surface mounted	1	1	optional, to bedhead for dialysis machine; provision dependent on equipment requirements for connectivity and updating dialysis parameters
ITIN-021	OUTLET: data, double RJ45, ceiling mounted	1	1	to patient entertainment system; services to be confirmed to suit selected system
ITIN-071	OUTLET: MATV, ceiling mounted	1	1	optional, to patient entertainment system; services to be confirmed to suit selected system, may be replaced with data outlet or alternate AV outlet depending on system requirements and local ICT policies
LIFX-112	LIGHT: examination, ceiling mounted	1	1	light switch located on MSP if item selected without fixture mounted controls; may alternatively be provided as a recessed examination light or a mobile examination light that may be shared between bays

Medical Services Panels and Pendants

CODE	DESCRIPTION	GROUP	QTY	COMMENT
Panel 1				
MMSP-051	MEDICAL SERVICES PANEL: wall mounted	1	1	to patient's right; content and configuration to be confirmed based on clinical services requirements and medical equipment selection
ELGP-146	*GPO: single, emergency power, on services panel*	1	*4*	
ELPR-083	*RCD: residual current device, emergency power, on services panel*	1	*1*	
ELSW-001	*SWITCH: light*	1	*1*	*optional, to ceiling mounted articulated examination light if item selected without fixture mounted controls; light fixture may alternatively be provided as a recessed examination downlight or a mobile examination light that may be shared between bays*
ITCL-133	*BUTTON: nurse call, patient to staff call, with cancel, with handset connection point, on services panel*	1	*1*	*may be combined on a single face plate with staff assist call button; located to support quick access by staff*
ITIN-025	*OUTLET: data, double RJ45, on services panel*	1	*1*	
MGAS-042	*OUTLET: oxygen (O2), on services panel*	1	*1*	
MGAS-062	*OUTLET: suction, on services panel*	1	*1*	
MGFP-041	*FLOWMETER: oxygen*	3	*1*	
MGFP-061	*ADAPTER: suction*	3	*1*	
Panel 2				
MMSP-051	MEDICAL SERVICES PANEL: wall mounted	1	1	to patient's left; content and configuration to be confirmed based on clinical services requirements and medical equipment selection
ELGP-146	*GPO: single, emergency power, on services panel*	1	*2*	
ELPR-083	*RCD: residual current device, emergency power, on services panel*	1	*1*	
ITIN-025	*OUTLET: data, double RJ45, on services panel*	1	*1*	

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

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