

Part B - Health Facility Briefing and Planning

620 RENAL DIALYSIS UNIT

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INTRODUCTION

General

620 .2.00	The number of Dialysis Stations provided in a Renal Dialysis Unit shall be based upon the expected workload and may include several work shifts per day.
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PLANNING

Functional Areas

620 .3.00	The Renal Dialysis Unit may include the following Functional Areas: <ul style="list-style-type: none">- Reception, Waiting areas and Administrative areas including Clinical Records holding/ storage- Patient Treatment areas including Bedrooms, Isolation Rooms, open plan Bed Bays, Treatment Rooms- Support areas including Reprocessing Room (if applicable), Workshop/ Laboratory, plant areas, Utility Rooms, Store Rooms, Pantry, Cleaner's Room and Disposal- Staff areas including Staff Station, Offices, Meeting Rooms, Staff Change and Toilets.
620 .4.00	DIALYSIS TREATMENT AREA The Treatment Area may be an open area and shall be separate from Administrative and Waiting Areas. The open unit shall be designed to provide privacy for each patient. Storage for patients' belongings shall be provided.

Functional Relationships

620 .5.00	The location of a Renal Dialysis Unit shall offer convenient access for outpatients. Accessibility to the unit from parking and public transportation shall be a consideration.
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DESIGN

Infection Control

620 .6.00 HANDWASHING FACILITIES

Hand-washing facilities shall be convenient to the Staff Station and patient treatment areas. There shall be at least one hand-washing facility serving no more than four patient treatment bays. These shall be uniformly distributed to provide equal access from each bay.

Building Service Requirements

620 .7.00 WATER TREATMENT

The water treatment equipment shall be located in an enclosed room.

COMPONENTS OF THE UNIT

Introduction

620 .8.00 The Renal Dialysis Unit will consist of a combination of Standard Components and Non-Standard Components.

Standard Components must comply with details in Standard Components described in these Guidelines. Refer also to Standard Components Room Data Sheets.

Standard Components

620 .9.00 Provide the Standard Components as identified in the Schedule of Accommodation.

Non-Standard Components

620 .10.00 Provide the Non-Standard Components as identified in this section and in the Schedule of Accommodation, according to the Operational Policy and Functional Brief.

620 .11.00 REPROCESSING ROOM

DESCRIPTION AND FUNCTION

A Reprocessing Room is required if dialysers are reused to clean and store dialysers. The room shall be sized according to service demand.

620 .12.00 LOCATION AND RELATIONSHIPS

The Reprocessing Room should be located with ready access to patient treatment areas and water treatment plant areas.

620 .13.00 CONSIDERATIONS

Room requirements will include the following:

- A one-way flow of materials from soiled to clean is required
- Decontamination/cleaning areas including sinks, benches and processors
- Refrigerator for temporary storage of dialysers
- Computer and Label printers
- Packaging area
- Dialyser storage cabinets
- Handwashing basin.

Non-Standard Components

620 .14.00 WORKSHOP

DESCRIPTION AND FUNCTION

The Workshop may be provided for servicing and repairing dialysis machines and equipment.

The Workshop shall be a minimum of eight m2.

620 .15.00 LOCATION AND RELATIONSHIPS

The Workshop shall be located with ready access to patient treatment areas and plant areas.

620 .16.00 CONSIDERATIONS

Room requirements will include:

- Handwashing basin
- Deep service sink
- Workbench
- Storage cabinets or shelving
- Dialysis port, data and electrical outlets for testing of equipment.

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APPENDICES

Renal Dialysis Generic Schedule of Accommodation

620.17.00 Schedule of Accommodation for a Renal Dialysis Unit at Levels 3/4 with 6 bed/chair spaces and at Levels 5/6 with 15 bed/chair spaces:

Note: Level 1/2 relates to a patient consultation service only; Level 6 is similar to Level 5 with the addition of teaching and research roles

ROOM / SPACE	Standard Component		Level 3 Qty x m2	Level 4 Qty x m2	Level 5 Qty x m2	Level 6 Qty x m2	Remarks
			6 Chair	6 Chair	15 Chair	15 Chair	
1 BED ROOM - ISOLATION	yes				2 x 15 optional	2 x 15 optional	
BAY - BEVERAGE	yes		1 x 3	1 x 3	1 x 3	1 x 3	
BAY - HANDWASHING	yes		2 x 1	2 x 1	4 x 1	4 x 1	
BAY - LINEN	yes		1 x 2	1 x 2	1 x 2	1 x 2	
BAY - MOBILE EQUIPMENT	yes		1 x 4	1 x 4	2 x 4	2 x 4	
BAY - RESUS TROLLEY	yes		1 x 2	1 x 2	1 x 2	1 x 2	
CLEANER'S ROOM	yes		1 x 4	1 x 4	1 x 4	1 x 4	
CLEAN UTILITY	yes		1 x 12	1 x 12	1 x 12	1 x 12	
DIRTY UTILITY	yes		1 x 10	1 x 10	1 x 10	1 x 10	
ENSUITE - STANDARD	yes		1 x 5 optional	1 x 5 optional	2 x 5	2 x 5	
PATIENT BAY	yes		6 x 9	6 x 9	15 x 9	15 x 9	With provisions for dialysis
REPROCESSING ROOM			1 x 15	1 x 15	1 x 15	1 x 15	
STAFF STATION	yes		1 x 14	1 x 14	1 x 14	1 x 14	
STORE - EQUIPMENT	yes		1 x 20	1 x 20	1 x 20	1 x 20	Also for dialysis fluids on heavy duty shelving
STORE - GENERAL	yes		1 x 9	1 x 9	1 x 9	1 x 9	
TOILET - PATIENT	yes		1 x 4	1 x 4	2 x 4	2 x 4	
TREATMENT ROOM	yes				1 x 15 optional	1 x 15 optional	
WATER TREATMENT PLANT			1 x 6	1 x 6	1 x 6	1 x 6	
WORKSHOP/ LABORATORY			1 x 8	1 x 8	1 x 15	1 x 15	
CIRCULATION %			32	32	32	32	

620.18.00 STAFF AND SUPPORT AREAS

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Note: Offices and Support Areas are dependent on Operational Policy and management structure:

ROOM / SPACE	Standard Component		Level 3 Qty x m2	Level 4 Qty x m2	Level 5 Qty x m2	Level 6 Qty x m2	Remarks
OFFICE - SINGLE PERSON 9 M2	yes		1 x 9	1 x 9	1 x 9	1 x 9	Unit Manager
OFFICE - 2 PERSON SHARED	yes				1 x 12 optional	1 x 12 optional	Medical personnel, according to staffing establishment
TOILET - STAFF	yes		1 x 2	1 x 2	1 x 2	1 x 2	

620 .19.00 SHARED AREAS

ROOM / SPACE	Standard Component		Level 3 Qty x m2	Level 4 Qty x m2	Level 5 Qty x m2	Level 6 Qty x m2	Remarks
BAY - BEVERAGE	yes				1 x 3	1 x 3	Co-located with Staff Room
DISPOSAL ROOM	yes				1 x 8	1 x 8	
PROPERTY BAY - STAFF	yes		1 x 6	1 x 6	1 x 6	1 x 6	
RECEPTION	yes		1 x 10	1 x 10	1 x 10	1 x 10	
STAFF ROOM	yes		1 x 15	1 x 15	1 x 15	1 x 15	
TOILET - PUBLIC	yes		1 x 3	1 x 3	1 x 3	1 x 3	
WAITING	yes		1 x 10	1 x 10	1 x 10	1 x 10	

References and Further Reading

- 620 .20.00 - American Institute of Architects, Guidelines for Design & Construction of Hospital & Healthcare Facilities, 1997.

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FUNCTIONAL RELATIONSHIPS DIAGRAM - RENAL DIALYSIS UNIT

