170 CARDIAC CATHETERISATION UNIT

INDEX

INTRODUCTION

General

170 .2.00 The Cardiac Catheterisation Unit may be provided as a separate unit, but it may be within the Medical Imaging Unit, provided that the appropriate sterile environment is provided. The Cardiac Catheterisation Unit can be combined with Angiography in low usage situations.

PLANNING

Functional Areas

170 .3.00 The Cardiac Catheterisation Unit will require the following minimum functional areas:
- Catheter Laboratory procedure room
- Control Room which may be co-located with a Viewing and Reporting room
- Equipment/ Computer room to accommodate the generating and computer modules
- Scrub-up/ Gowning area
- Patient bed bays for holding and recovery
- Access to a film storage room

170 .4.00 If a Cardiac Catheterisation Unit is provided as a freestanding unit, the following additional facilities/requirements will be applicable:
- Reception / Clerical Area
- Patient Toilet / Change
- Staff Toilet / Change
- Radiation protection.

Functional Relationships

170 .5.00 The Cardiac Catheterisation Unit may be a freestanding Unit or co-located with the Medical Imaging Unit. It should have ready access to the Operating Unit, Intensive Care/ Coronary Care Units and Cardiac Inpatient Accommodation Units.

DESIGN

Building Service Requirements

170 .6.00 RADIATION PROTECTION

Plans and specifications will require assessment for radiation protection by a certified physicist or other qualified expert as required by the Australian Radiation and Nuclear Safety Agency. The radiation protection assessment will specify the type, location and amount of radiation protection required according to the final equipment selections and layout. Radiation protection requirements shall be incorporated into the final specifications and building plans.

COMPONENTS OF THE UNIT

Introduction

170 .7.00 The Cardiac Catheterisation 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

170 .8.00 Provide the Standard Components as identified in the Schedule of Accommodation.

Non-Standard Components

170 .9.00 Provide the Non-Standard Components identified in this section and in the Schedule of Accommodation, according to the Operational Policy and Functional Brief.

170 .10.00 EQUIPMENT/ COMPUTER ROOM

DESCRIPTION AND FUNCTION

An equipment room or enclosure to accommodate the X-ray transformers, power modules, and associated computer electronics and electrical gear shall be provided.

The Equipment/ Computer Room size may vary according to the equipment to be accommodated.

170 .11.00 LOCATION AND RELATIONSHIPS

The Equipment/ Computer room should be located with ready access to both the Catheter Laboratory and the Control Room. Equipment/ Computer rooms may be co-located for multiple Catheter Laboratory procedure rooms.

170 .12.00 CONSIDERATIONS

Special attention to ventilation and cooling of the room will be required.

APPENDICES

Cardiac Catheter Generic Schedule of Accommodation

170 .13.00 Schedule of Accommodation for a Cardiac Catheterisation Unit in a Hospital at Levels 4, 5 and 6:
Note: Level 6 is similar to level 5 with the addition of research and teaching functions.

ROOM / SPACE	Standard Component			Level 4 Qty x m2	Level 5 Qty x m2	Level 6 Qty x m2	Remarks
BAY - HANDWASHING	yes			1 x 1	2 x 1	2 x 1	
BAY - LINEN	yes			1 x 2	2 x 2	2 x 2	
BAY - MOBILE EQUIPMENT	yes			1 x 4	1 x 8	1 x 8	
BAY - RESUS TROLLEY	yes			1 x 2	1 x 2	1 x 2	
CATHETER LABORATORY	yes			2 x 38	4 x 38	4 x 38	
CONTROL ROOM	yes			2 x 10	4 x 10	4 x 10	May be shared for adjacent Catheter Laboratories
ENSUITE - STANDARD	yes			1 x 4	2 x 4	2 x 4	With change facilities
EQUIPMENT / COMPUTER				1 x 10	2 x 10	2 x 10	May be co-located for multiple Procedure Rooms
OFFICE - SINGLE PERSON 9 M2	yes			1 x 9 optional	1 x 9 optional	1 x 9 optional	Unit Manager
PATIENT BAY	yes			1 x 9	2 x 9	2 x 9	Holding; may be co-located with Recovery
PATIENT BAY	yes			3 x 9	10 x 9	10 x 9	Recovery
SCRUB-UP GOWNING	yes			1 x 10	2 x 10	2 x 10	Shared between Catheter Labs
CIRCULATION %				35	35	35	

170 .14.00 STAFF AREAS

ROOM / SPACE	Standard Component			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 optional	1 x 9 optional	Nursing personnel
OFFICE - SINGLE PERSON 12 M2	yes				1 x 12 optional	1 x 12 optional	Radiographer

170 .15.00 SHARED AREAS

ROOM / SPACE	Standard Component			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-locate with Staff Room

CHANGE ROOM - STAFF	yes			1 x 8	2 x 8	2 x 8	May be co-located with Toilet-Staff
CLEANER'S ROOM	yes			1 x 4	1 x 4	1 x 4	
CLEAN UTILITY	yes			1 x 12	1 x 12	1 x 12	
DIRTY UTILITY - SUB	yes			1 x 8	2 x 8	2 x 8	May be co-located with Disposal
DISPOSAL ROOM	yes			1 x 8	1 x 8	1 x 8	
INTERVIEW ROOM	yes				1 x 12	1 x 12	Large - for family groups
MEETING ROOM	yes				1 x 20	1 x 20	
RECEPTION	yes			1 x 10	1 x 10	1 x 10	Also functions as a Staff Station
STAFF ROOM	yes				1 x 15	1 x 15	
STORE - FILM				1 x 8	1 x 12	1 x 12	
STORE - EQUIPMENT	yes				1 x 20	1 x 20	
STORE - GENERAL	yes			2 x 9	1 x 9	1 x 9	
TOILET - STAFF	yes			1 x 2	2 x 2	2 x 2	May be co-located with Change Room- Staff
X-RAY VIEWING AND REPORTING	yes			1 x 12	2 x 12	2 x 12	

References and Further Reading

170 .16.00 - American Institute of Architects, Guidelines for Design & Construction of Hospital & Healthcare Facilities, 1997.

FUNCTIONAL RELATIONSHIPS DIAGRAM - CARDIAC CATHETERIZATION UNIT