

Part B - Health Facility Briefing and Planning

460 MEDICAL IMAGING - CT SCANNING

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INTRODUCTION

Description

- 460 .2.00 The CT Scanning area is an additional space within the Medical Imaging Unit for Computerised Tomography (CT) examinations involving cross sectional imaging of the human body.

PLANNING

Functional Areas

- 460 .3.00 The CT Scanning Area will consist of the following Functional Areas:
- CT Imaging Room, Control Room and Equipment Room
 - Scrub-up / Gowning Area
 - Patient Holding Area
 - Patient Toilet and Change facilities
 - Access to Staff Change and toilet facilities
 - Support Area including preparation, utilities and storage, which may be shared.

- 460 .4.00 PATIENT TOILET

Access to a Patient Toilet will be required for CT Scanning. It shall be convenient to the CT Scanning Room, and if directly accessible to the scanning room, arranged so that a patient may leave the toilet without having to re-enter the Scanning Room.

Functional Relationships

- 460 .5.00 The CT Scanning area should be located with ready access to the Emergency Unit, Operating Unit and Critical Care Units.

COMPONENTS OF THE UNIT

Introduction

- 460 .6.00 The Medical Imaging - CT Scanning will contain a combination of Standard Components and Non-Standard Components, according to the Level of Service.

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

Standard Components

- 460 .7.00 Provide the Standard Components as identified in the Generic Schedules of Accommodation.

Non-Standard Components

- 460 .8.00 Provide the Non-Standard Components as identified in this section and in the Schedule of Accommodation, according to the Operational Policy and Functional Brief.

- 460 .9.00 CT SCANNING ROOM

DESCRIPTION AND FUNCTION

The CT Scanning room provides an area and equipment for CT examinations.

CT Scanning Rooms shall be sized as required to accommodate the equipment. The minimum area required will be 38 m².

- 460 .10.00 LOCATION AND RELATIONSHIPS

The CT Scanning Room should be located adjacent to the Control Room and should have ready access to patient holding areas, patient toilet/ change facilities, preparation and storage areas.

- 460 .11.00 CONSIDERATIONS

The CT Scanning Room will require clinical scrub facilities immediately adjacent to the room.

- 460 .12.00 CT CONTROL ROOM

DESCRIPTION AND FUNCTION

A Control Room shall be provided that is designed to accommodate the computer and other controls for the equipment. A viewing window shall be provided to permit full view of the patient. The angle between the Control Room and equipment centroid shall permit the control operator to see the patient's head.

- 460 .13.00 LOCATION AND RELATIONSHIPS

The Control Room shall be located with direct access to the CT Imaging room and ready access to film processing areas.

- 460 .14.00 CONSIDERATIONS

For additional room details and requirements refer to Standard Component -

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Cath Lab Control / Reporting room.

460 .15.00 CT COMPUTER ROOM

DESCRIPTION AND FUNCTION

The Computer Room provides an area for the computer and generator modules associated with the CT Scanning equipment.

460 .16.00 LOCATION AND RELATIONSHIPS

The Computer Room should be located adjacent to the CT Scanning and Control Rooms.

460 .17.00 CONSIDERATIONS

The Computer Room will require adequate ventilation for the computer equipment.

APPENDICES

CT Scanning Generic Schedule of Accommodation

460 .18.00 Schedule of Accommodation for CT Scanning: If CT Scanning facilities are required, the rooms identified are to be added to the Schedule of Accommodation for Medical Imaging - General.

ROOM / SPACE	Standard Component			Level 4 Qty x m2	Level 5 Qty x m2	Level 6 Qty x m2	Remarks
CT SCANNING ROOM				1 x 38	2 x 42	2 x 42	
CT CONTROL ROOM	see remarks			1 x 6	2 x 8	2 x 8	Refer to Standard Component Catheter Laboratory Control/ Reporting
CT COMPUTER ROOM				1 x 6	2 x 6	2 x 6	
SCRUB-UP / GOWNING	yes			1 x 6	1 x 8	1 x 8	May be shared between Scanning Rooms
TOILET - PATIENT	yes			1 x 4	2 x 4	2 x 4	Including Change facilities
PATIENT BAY	yes			3 x 9	4 x 9	4 x 9	For Holding / Recovery; 2 Bays per Scanning Room
CIRCULATION %				35	35	35	

References and Further Reading

- 460 .19.00 - American Institute of Architects, Guidelines for Design & Construction of Hospital & Healthcare Facilities, 1997.
- NSW Health, Design Standard 15 Health Building Guidelines - Medical Imaging Unit, 1992.

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FUNCTIONAL RELATIONSHIPS DIAGRAM - MEDICAL IMAGING (CT SCANNING)

