

## 15.0 Dental Health Unit

### 15.1 Introduction

#### 15.1.1 Description

Dental Units may be attached to hospital departments, for example Emergency Units or Outpatients Units, or may be a freestanding department. Refer to Operating Unit for dental surgery as a function of an operating suite.

### 15.2 Planning

#### 15.2.1 Functional Areas

The Dental Unit will consist of the following Functional Areas:

- Reception Area and Waiting
- Office area for administrative and clerical activities
- Dental Surgery Rooms
- Support Rooms I including Clean-up Room, Laboratory, Store, Sterilising, X-ray processing area and Plant areas
- Staff Amenities which may be shared with adjacent Units.

#### 15.2.2 Functional Relationships

The Dental Unit in a hospital precinct may be located close to other Outpatients units. It should have ready access to Entry and Waiting areas and public amenities.

### 15.3 Design

#### 15.3.1 Environmental Considerations

##### NATURAL LIGHT

Maximise provision of natural light to areas where staff spend a large proportion of their working day.

##### PRIVACY

Privacy must be considered to treatment rooms and where confidential conversations are likely to take place. Acoustic privacy will be required in dental surgery rooms, offices, meeting and interview rooms.

##### ACOUSTICS

Acoustic performance shall be high within the Unit, particularly dental surgery rooms, conference and meeting rooms. Please refer to Part C, 9.2 "Acoustic Solutions for Healthcare Facilities"

#### 15.3.2 Space Standards and Components

##### ERGONOMICS

Refer to Part C of these Guidelines.

#### 15.3.3 Safety and Security

The Dental Unit requires the following security considerations:

- The perimeter of the Unit shall be lockable
- Doors to all offices shall be lockable
- Rooms used for storing equipment and files must be lockable
- Provision of after-hours access and security for staff may be required.



#### 15.3.4 *Finishes*

Refer to Part C of these Guidelines.

#### 15.3.5 *Fixtures and Fittings*

Refer to Part C of these Guidelines and Standard Components for information of fixtures and fittings.

#### 15.3.6 *Building Service Requirements*

Radiation protection requirements for Dental Surgery Rooms will require assessment by AERB. Compliance with any statutory authority regulations is required.

### 15.4 Components of the unit

#### 15.4.1 *Introduction*

The Dental 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.

#### 15.4.2 *Non-Standard Components*

##### DENTAL PLANT ROOM

###### Description and function

The Dental Plant Room will accommodate equipment including water filtration equipment, silver water treatment system, dental suction plant and air compressors. The Plant Room shall be a minimum of six m<sup>2</sup>. The size will be dependent on the amount of equipment to be accommodated and the layout.

###### Location and Relationships

The Plant Room should be located to minimise the impact of noise and heat generated by equipment accommodated within the room on adjacent areas. Access to the Plant Room through an external door is recommended as internal access may present noise issues.

###### Considerations

Services required for equipment may include compressed air, cold water and both single and three phase power. Additional requirements include floor wastes and tundishes for waste water, external exhausting for suction system air discharge and room ventilation. There may be a requirement to include a pit in the plant room floor to accommodate an air venturi for the suction system. Remote isolation switches for plant should be considered (the sterilizing room or reception are ideal locations) so plant can be easily shut down at the end of the day.

##### CHILD EDUCATION AREA

###### Description and function

A child education area may be provided to teach children teeth care and brushing techniques. The education area will consist of basins at child height and a mirror. The area may include more than one basin according to service requirements.

###### Location and Relationships

The child education area may be incorporated into a dental surgery room or as a separate within the Unit, with ready access to the Waiting areas.

###### Considerations

Provide warm water to the basins.



## 15.5 Schedule of Accommodation

### 15.5.1 Dental Health Unit Generic Schedule of Accommodation

Schedule of Accommodation for a Dental Unit with 2, 4 & 6+ chairs.

#### ENTRY / RECEPTION

ROOM / SPACE	Standard Component			2 Chairs Qty x m2	4 Chairs Qty x m2	6+ Chairs Qty x m2	Remarks
ENTRY - AIRLOCK	yes			1 x 9	1 x 9	1 x 9	Optional depending on location
RECEPTION	yes			1 x 10	1 x 12	1 x 20	
STORE - FILES	yes			1 x 6	1 x 8	1 x 10	Compactus or fixed shelving
STORE - PHOTOCOPIER / STATIONERY	yes			Share	1 x 8	1 x 8	
OFFICE – 2 PERSON, SHARED	yes				1 x 12	1 x 12	
WAITING	yes			1 x 20	1 x 30	1 x 40	Cold water dispenser;
WAITING - FAMILY	yes			1 x 10	1 x 15	1 x 20	Cold water dispenser
CHILD PLAY AREA	yes			Included in Waiting	1 x 10	1 x 15	Optional
BAY - WHEELCHAIR PARK	yes			Share	1 x 2	1 x 2	1 – 2 wheelchairs
TOILET - PUBLIC	yes			Share	2 x 3	2 x 3	
TOILET – ACCESSIBLE	yes			2 x 5	2 x 5	2 x 5	

#### TREATMENT AREAS

ROOM / SPACE	Standard Component			2 Chairs Qty x m2	4 Chairs Qty x m2	6+ Chairs Qty x m2	Remarks
DENTAL SURGERY – SINGLE	yes			2 x 14	2 x 14	3 x 14	
DENTAL SURGERY – SINGLE	yes				1 x 18	1 x 18	Bed access
DENTAL SURGERY - 2 CHAIRS	yes similar				1 x 40	1 x 40	Similar to Dental Surgery - Single
CHILD EDUCATION AREA				1 x 2	1 x 3	1 x 4	Optional; sink & mirror x 1, 2 & 3; may be incorporated into an open plan surgery
PATIENT BAY - RECOVERY	yes			1 x 20	1 x 20	1 x 20	
BAY - HANDWASHING, TYPE B	yes			1 x 1	1 x 1	1 x 1	Collocate with recovery
BAY - RESUSCITATION TROLLEY	yes			Share	1 x 2	1 x 2	

#### SUPPORT AREAS

ROOM / SPACE	Standard Component			2 Chairs Qty x m2	4 Chairs Qty x m2	6+ Chairs Qty x m2	Remarks
X-RAY PROCESSING (DARK ROOM)	yes			1 x 6	1 x 6	1 x 6	
DENTAL X-RAY , OPG	yes				1 x 7	1 x 7	
DENTAL LABORATORY	yes			1 x 8	1 x 20	1 x 30	



ROOM / SPACE	Standard Component			2 Chairs Qty x m2	4 Chairs Qty x m2	6+ Chairs Qty x m2	Remarks
INSTRUMENT PROCESSING	yes similar			1 x 10	1 x 12	1 x 30	Similar to Dental Clean-Up/ Sterilising
STORE - STERILE STOCK	yes			1 x 8	1 x 10	1 x 12	May be incorporated into instrument Processing
DIRTY UTILITY / DISPOSAL ROOM	yes			1 x 8	1 x 10	1 x 12	For fluids disposal, soiled linen holding etc
BAY - LINEN TROLLEY	yes			1 x 2	1 x 2	1 x 2	
STORE – GENERAL	yes			1 x 9	1 x 12	1 x 14	
CLEANER'S ROOM	yes			Share	1 x 5	1 x 5	
DENTAL PLANT ROOM				1 x 9	1 x 12	1 x 16	After hours access
GOODS RECEPTION / LOADING DOCK	yes				1 x 15	1 x 15	Space for one truck May be shared
OFFICE – SINGLE PERSON	yes			1 x 9	1 x 12	1 x 12	Senior Dentist
OFFICE - WORKSTATION	yes			2 x 6	4 x 6	6 x 6	Number to suit staff establishment
MEETING / TUTORIAL ROOM	yes				1 x 15	1 x 20	
STAFF ROOM	yes				1 x 24	1 x 30	
BAY - BEVERAGE	yes			1 x 4			
SHOWER - STAFF	yes				2 x 3	2 x 3	Optional
TOILET - STAFF	yes			2 x 3	4 x 3	4 x 3	
DISCOUNTED CIRCULATION				25%	32%	32-35%	

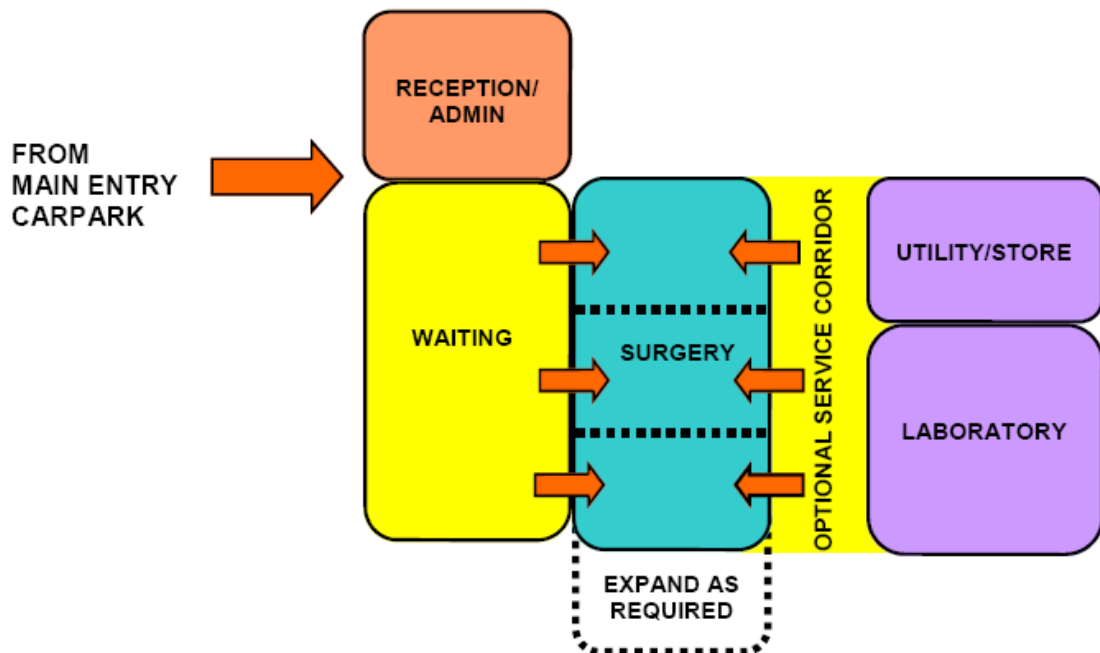
Please note the following:

- Areas noted in Schedules of Accommodation take precedence over all other areas noted in the FPU.
- Rooms indicated in the schedule reflect the typical arrangement according to the Role Delineation.
- Exact requirements for room quantities and sizes will reflect Key Planning Units identified in the service plan and the policies of the Unit.
- Room sizes indicated should be viewed as a minimum requirement; variations are acceptable to reflect the needs of individual Unit.
- Office areas are to be provided according to the Unit role delineation and staffing establishment.
- Staff and support rooms may be shared between Functional Planning Units dependant on location and accessibility to each unit and may provide scope to reduce duplication of facilities.



## 15.6 Functional Relationship Diagram

### 15.6.1 Dental Health Unit Functional Relationship Diagram



## 15.7 References and Further Reading

- Australasian Health Facility Guidelines. (AusHFG Version 3.0), 2009; refer to website [www.healthfacilitydesign.com.au](http://www.healthfacilitydesign.com.au)
- Guidelines for Design and Construction of Health Care Facilities; The Facility Guidelines Institute, 2010 Edition.
- Design Guidelines for Hospitals and Day Procedure Centres, Department of Human Services Victoria, 2005
- Health Department Western Australia, Private Hospital Guidelines, 1998.



The Indian Health Facility Guidelines recommends the use of **HFBS** “**Health Facility Briefing System**” to edit all room data sheet information for your project.

HFBS provides edit access to all HFG India standard rooms, departments, and more than 40 report templates.

## HFBS Health Facility Briefing System



### Briefing Module

The Health Facility Briefing System (HFBS) has numerous modules available via annual subscription. It suits healthcare Architects, Medical Planners, Equipment Planners Project Managers and Health Authorities.

Use the HFBS Briefing Module to quickly drag in health facility departments or pre-configured room templates from the HFG standard, edit the room features such as finishes, furniture, fittings, fixtures, medical equipment, engineering services. The system can print or download as PDF more than 100 custom reports including room data sheets, schedules, and more...

To learn more about the HFBS web-based Healthcare Briefing and Design Software and to obtain editable versions of the “Standard Components” including Room Data Sheets (RDS) and Room Layout Sheets (RLS) offered on the HFG website, signup for HFBS using the link below.

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