

## 16.0 Dental Health Unit

### 16.1 Introduction

#### 16.1.1 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.

### 16.2 Planning

#### 16.2.1 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 and areas including Clean-up Room, Laboratory, Store, Sterilizing and Plant areas
- Staff Amenities which may be shared with adjacent Units.

Dental imaging will generally use digital processing; an area may be provided for servers and printing equipment.

#### 16.2.2 Functional Relationships

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

### 16.3 Design

#### 16.3.1 Environmental Considerations

Natural Light

Maximize 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.

#### 16.3.2 Space Standards and Components

Ergonomics

Refer to Part C of these Guidelines.

### 16.3.3 *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.

### 16.3.4 *Finishes*

Refer to Part C of these Guidelines.

### 16.3.5 *Fixtures and Fittings*

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

### 16.3.6 *Building Service Requirements*

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

## 16.4 Components of the Unit

### 16.4.1 *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.

### 16.4.2 *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 6m<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 minimize 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.

## 16.5 Schedule of Accommodation

### Typical Dental Surgery Unit with 2, 4 and 6 chairs

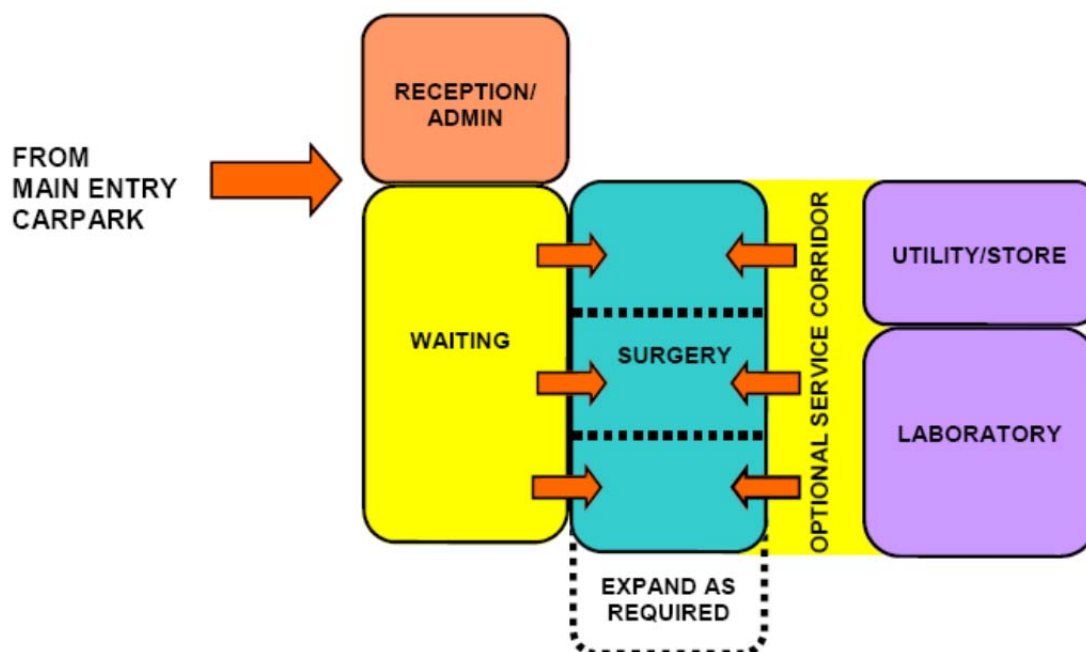
ROOM/SPACE	Standard Component	2 Chairs Qty x m²			4 Chairs Qty x m²			6 Chairs Qty x m²			Remarks
Entrance/Reception Areas											
Reception/Clerical	RECL-10-SJ Similar	1	x	10.0	1	x	10.0	1	x	20.0	
Waiting – Male/Female	WAIT-10-SJ WAIT-20-SJ	2	x	10	2	x	15	2	x	20.0	Cold water dispenser; Separate Female waiting
Waiting – Family	WAIT-10-SJ WAIT-20-SJ	1	x	10	1	x	15	1	x	20	Cold water dispenser
Play Area – Paediatric	PLAP-10-SJ				1	x	10	1	x	15	Optional
Store – Files	STFS-10-SJ	1	x	8	1	x	8	1	x	10	Compactus or fixed shelving
Store – Photocopy/Stationery	STPS-8-SJ				1	x	8	1	x	8	
Toilet – Accessible	WCAC-SJ				2	x	6	2	x	6	May share general public amenities
Toilet – Public	WCPU-3-SJ				2	x	3	2	x	3	May share general public amenities
Treatment Areas											
Dental Consult	DENSR-14-SJ				2	x	14.0	2	x	14.0	Multi-disciplinary use
Multi-purpose Room/Play Area					1	x	14.0	1	x	14.0	Dental Hygiene education, May use a Dental Surgery room
Dental Surgery – Single	DENSR-14-SJ	2	x	14.0	2	x	14.0	3	x	14.0	
Dental Surgery – Single	DENSR-14-SJ				1	x	16.0	1	x	16.0	Additional area for bed access
Dental Surgery (2 Chairs)	DENSR-14-SJ Similar							1	x	40.0	For siblings, families
Patient Bay – Holding/Recovery	PBTR-H-10-SJ	1	x	10	2	x	10	2	x	10	Separate Male and Female bays
Staff Station	SSTN-5-SJ Similar	1	x	5	1	x	5	1	x	8.0	
Support Areas											
Bay – Handwashing, Type B	BHWS-B-SJ	1	x	1	1	x	1	1	x	1	Patient recovery bays
Bay – Linen	BLIN-SJ	1	x	2	1	x	2	1	x	2	
Bay – Mobile Equipment	BMEQ-4-SJ				1	x	4	2	x	4.0	As required
Bay – Resuscitation Trolley	BRES-SJ	1	x	1.5	1	x	1.5	1	x	1.5	
Cleaner's Room, 5m²	CLRM-5-SJ	1	x	5	1	x	5	1	x	5	
Compressor Plant Room		1	x	9	1	x	12	1	x	15.0	Access from clinic area and after-hours
Dental Clean-Up	DCLUP-S	1	x	6	1	x	6	1	x	9.0	With pass-through window hatch to Sterilising
Dental Packing/Sterilising		1	x	6	1	x	10	1	x	20.0	With pass through window hatch to Sterile Stock
Dental Plaster Room								1	x	12.0	
Dental Laboratory	DENL-8-SJ	1	x	8	1	x	20.0	1	x	30.0	With enclosed zone for ceramics area
Dental X-Ray	DENXR-SJ	1	x	6.0	1	x	8.0	1	x	10.0	OPG unit (as required); Digital processing
Dirty Utility – Sub	DTUR-8-SJ DTUR-12-SJ	1	x	8	1	x	10	1	x	12	Includes waste disposal
Store – Drugs	STDR-5-SJ Similar	1	x	5	1	x	5	1	x	10.0	
Store – General	STGN-12-SJ	1	x	8	1	x	10	1	x	12	
Store – Sterile Stock	STSS-12-SJ Similar	1	x	8	1	x	10.0	1	x	12.0	May be collocated with instrument Processing
Staff Areas											
Office -Manager	OFF-S9-SJ Similar	1	x	12.0	1	x	12.0	1	x	12.0	Unit Manager
Office – Single Person	OFF-S9-SJ				1	x	9	2	x	9.0	Senior Dental staff, as required
Office – 2-Person Shared	OFF-2P-SJ				1	x	12.0	1	x	12.0	According to staffing numbers
Office – Workstation	OFF-WS-SJ	2	x	5.5	4	x	5.5	6	x	5.5	Quantity to suit staff numbers
Meeting Room – Medium	MEET-L-15-SJ				1	x	15	1	x	20	

ROOM/SPACE	Standard Component	2 Chairs Qty x m <sup>2</sup>			4 Chairs Qty x m <sup>2</sup>			6 Chairs Qty x m <sup>2</sup>			Remarks
Change – Staff (Male/Female)	CHST-12-SJ	2	x	12	2	x	12	2	x	12. 0	Toilet, Shower and Lockers; May be shared with general staff amenities
Staff Room	SRM-15-SJ Similar				1	x	20	1	x	25. 0	May be shared with adjacent Unit
Net Department Total		211. 5			428. 5			602. 5			
Circulation %		35			35			35			
Grand Total		285. 5			578. 5			813. 4			

## Notes:

- 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 Operational 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; Executives and Managers may be responsible for more than one area but should have only one office assigned within the campus
- Staff and support rooms may be shared between Functional Planning Units dependent on location and accessibility to each unit and may provide scope to reduce duplication of facilities.

## 16.6 Functional Relationship Diagram



## 16.7 Further Reading

- Australasian Health Infrastructure Alliance (Aus.). 'Australasian Health Facility Guidelines'. Retrieved from website: [www.healthfacilityguidelines.co.au](http://www.healthfacilityguidelines.co.au) 2014
- Australasian Health Facility Guidelines (Aus.). 'Part B – Health Facility Briefing and Planning 280 – Oral Health Unit Revision 5' 2014. Retrieved from website: [http://www.healthfacilityguidelines.com.au/AusHFG\\_Documents/Guidelines/\[B-0280\]%20Oral%20Health%20Unit.pdf](http://www.healthfacilityguidelines.com.au/AusHFG_Documents/Guidelines/[B-0280]%20Oral%20Health%20Unit.pdf) 2014
- Department of Health (UK). 'Dental Quality and Outcomes Framework' 2011. Retrieved from website: <https://www.gov.uk/government/publications/dental-quality-and-outcomes-framework> 2014
- DH (Department of Health) (UK). 'Health Building Note 12 Out-patients Department' 2004. Retrieved from website: [https://www.gov.uk/government/uploads/system/uploads/attachment\\_data/file/142891/HBN\\_12.pdf](https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/142891/HBN_12.pdf) 2014
- The Facility Guidelines Institute (US). 'Guidelines for Design and Construction of Health Care Facilities' 2010 Edition. Retrieved from website: [www.fgiguideelines.org](http://www.fgiguideelines.org) 2014.