

# Part B – Health Facility Briefing & Design

## 185 Mental Health Unit – Child & Adolescent



iHFG

# International Health Facility Guidelines

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## 185 Mental Health Unit - Child & Adolescent

### 1 Introduction

#### *Description*

The Child & Adolescent Mental Health Inpatient Unit provides short term acute inpatient mental health assessment and treatment of children up to 10 to 12 years of age and adolescents up to 16 -18 years where community approaches have proven (or are likely to prove) inadequate.

The design, layout and functionality of Child and Adolescent Mental Health Units should meet the developmental needs of their age group. Notably, the Child and Adolescent Unit should enable active family involvement in daily care, treatment and program activities including family admission and residence where appropriate.

The patients in each unit will have a broad range of mental health problems and disorders and challenging behaviours that must be managed safely and effectively. The layout and design of the Child and Adolescent units will need to accommodate children and young people at varying stages of social, emotional and intellectual development. Young people in the Adolescent Unit will have families and others involved in their care who should feel welcome in the unit.

The unit may admit and treat patients who have:

- A risk of self-injury
- A risk of self-neglect
- A risk of injury to others
- A severe affective disorder
- Psychosis including early onset schizophrenia
- Pervasive developmental disorders
- Anorexia nervosa and related eating disorders
- Severe anxiety disorders
- Obsessive compulsive disorder
- Tourette's syndrome
- Co-morbid drug and alcohol problems
- Severe family relationship difficulties.

### 2 Planning

#### *Models of Care*

Models of care include:

- Children and adolescents together in a fully integrated unit, with separate programs and activities for relevant age groups; this arrangement optimises staffing and enables efficient use of resources;
- Children and adolescents in the same unit but separate “zones” designed to cater for their differing needs; they should operate as two discrete service types with separate functional areas, programs and activities although co-location allows sharing of facilities
- Inclusion of a secured dedicated unit collocated with a paediatric precinct to allow children to participate in activities with other children such as school and play therapy
- Collocation of a Day Unit to minimise the need for hospitalisation; the Day unit would provide for day activities and close down at night.

#### *Functional Areas*

The Unit will cater for both male and female patient and family members as required. The Unit should provide Bedrooms that can accommodate family members in a bed sitting arrangement with a separate bedroom to the child, with a shared Ensuite.

Support areas required in Child/ Adolescent Units will include:

- Multipurpose Group Therapy/ Activity rooms that can also be used for education purposes
- Large Interview Rooms to accommodate families
- Outdoor space for recreation activities.
- Storage for general ward equipment, occupational therapy equipment and a range of age appropriate, therapy, sport and recreation equipment in each setting.

Office accommodation should be located in a non-patient area of the unit with secured access/ egress.

#### Assessment/ Medication Room (may be a Shared Facility)

The Unit will include a suitably equipped room for physical/ neurological examinations which will also contain locked cupboards for dressings, medications and emergency equipment in keeping with legislative requirements. The Room will require two entry/ exit doors.

#### External Relaxation/ Activities Areas

Each unit will require discrete and separate outdoor relaxation areas.

These areas will not be locked but access to and from the units should be only from the respective unit and easily observed and monitored by staff. Staff should however be able to prevent access to these areas at night. A common external activity area may be shared if units are co-located.

#### High Dependency/ Intensive Care Unit (Adolescent Unit Only)

The Adolescent Unit will require a lockable high dependency unit consisting of at least one seclusion room and toilet/bath/ shower room opening onto a locked lounge area which has direct access to an external secure courtyard separate to other external recreation areas. Entry to this area directly from outside the unit will be required for police assisted admissions or where a young person is highly disturbed and at immediate risk of harm to themselves or others.

#### Patient Bedrooms

Single Patient Bedrooms shall be provided, each with an Ensuite. The patient bedroom doors must be able to be unlocked from the outside, even if locked on the inside. It is advisable to have the capacity to restrict the access to the Ensuite.

The fittings and furniture include:

- Built-in wardrobe
- Built-in desk
- Pin board for photos and posters.

Fittings must not provide opportunities for self-harm and are to have a breaking strain of less than 15 kg. Blinds to external windows are to be within double glazing. Chairs should be light weight and flexible.

Services will include the following:

- Two power outlets - RCD protected
- Staff alarm system.
- Medical gases will not be required.

#### Patient Ensuites

An Ensuite shall be provided to each bedroom to comply with Standard Components Ensuite - Mental Health. The fittings must not provide opportunities for self-harm and are to have a breaking strain of less than 15 kg.

#### Parent/ Family/ Carer Bedrooms

Bedrooms for parents or other family members should include a double bed and a single bed and be of sufficient size to allow a fold away cot for very young children. A shared Ensuite to enable parents/ carers to look after their child accommodated in another room should be available to each parent/ family/ carer bedroom.

### Reception/ Entry Area

The entrance to each unit should be readily observable from the nursing station/office and should incorporate a greeting/ waiting area for family, friends and others which is separated from all other functional areas on the units. The area should assist staff to prevent unauthorised entry to the unit and to provide a safe and therapeutic environment for children, adolescents and family members, (passive observation of the patient activity / recreation area from the ward office / nurses station is desirable).

### Office Accommodation

Offices and workstations shall be provided according to the Operational Policy and staffing establishment. The office area should be located in the 'patient free' area of the unit.

Administrative and office areas may be shared with adjacent units.

### Play Therapy Room

A Play Therapy Room shall be provided for 'regressive' therapies such as artwork, doll play and clay modelling. The room shall be designed with the young child 10-12 years in mind.

The Play Therapy Room should be located within the patient treatment / therapy zone of the Unit.  
Considerations

Fittings, fixtures and equipment will include:

- Bench, open under
- Storage cupboards for materials
- Whiteboard
- Chairs
- Hand basin with soap and paper towel fittings.

Finishes should be smooth and easily cleaned, flooring should be vinyl.

### Recreation/ Day Area

A Recreation / Day area shall be provided for a wide range of activities including watching TV, listening to music, computer and other activities.

The area requires ready access to the secured courtyard and must be overseen from the Staff Station.

Fittings and furniture should be suitable for children up to 10-12 years, for teenagers up to the age of 18 and visiting family members.

### Quiet/ Time Out Room:

The unit will require a room to be used for quiet time/ time out for agitated and distressed children. The room will be lockable and permit observation by staff while providing privacy to the room occupant.

The room should be located in an area that will minimise disruption to unit activities. The room should have ready access to a toilet and washing facilities close by that does not require traversing the unit.

The room will be very plain and simple with unbreakable fittings. The room will be similar to Lounge- Patient, suitable for mental health areas. Television, DVD and CD players are not permitted in this room.

### Computer Room

The Computer Room will provide an area for children and adolescents to access computers and use computer games.

The Computer Room will be located in the activities area of the Unit with ready access to patient areas and with direct visibility of staff.

The room will include the following furniture, fittings and equipment:

- Computer desks
- Computers
- Computer games consoles
- Chairs suitable for computer desks
- Whiteboard (optional)

All furniture in the area will need to be sturdy, vandal resistant and suitable for mental health areas. Electrical outlets will require RCD protection. All cables will need to be secured and not accessible to patients.

### *Functional Relationships*

The Child and Adolescent Mental Health Unit will have functional relationships with the following units, services and organizations:

- Emergency Unit
- Paediatric Inpatient Unit
- Paediatric Outpatient services
- Diagnostic Pathology Unit
- Allied Health Unit
- Early childhood services
- Child and family support services
- Community services including day programs
- Drug treatment services
- Adult Psychiatric Services
- Adolescent medical units.

## 3 Design

### *General*

The Child and Adolescent Mental Health Unit should be located on the ground floor.

The following design issues are mandatory requirements:

- Access to the Unit must not be through other units, also the unit must not form a thoroughfare to any other unit
- Bedrooms should provide a comfortable domestic environment with comfortable, robust furniture and furnishings
- All glazing must be a grade of safety glass suitable for mental health applications
- Where co-located, the Child and Adolescent Mental Health Unit should allow full independent operation and separation while enabling common use of appropriate facilities
- Rooms and equipment need to meet the therapeutic and educational requirements of the patient group, with provisions for video conferencing in at least one large family Meeting Room and video recording in at least one Interview Room or wet and dry Therapy/ Play Room.
- The Entry areas to both Units require a Visitors' Toilet - Disabled with baby change facilities and a Waiting Area in close proximity.
- Design elements incorporating additional security measures should not be evident to the casual observer.

### *Environmental Considerations*

#### Acoustics

Acoustic treatment should be applied to the following areas:

- Day Areas such as patient living, dining and activities areas
- Patient Bedrooms including high dependency, intensive care and seclusion rooms
- Consulting Rooms
- Admission Areas.

In acoustically treated rooms, return air grilles should be acoustically treated to avoid transfer of conversations to adjacent areas. Door grilles to these areas should be avoided.

### Windows and Glazing

Wherever possible, the use of natural light is to be maximised.

All windows and observation panels shall be glazed with safety glass, specifically, toughened laminated glass with a minimum nominal thickness of 10.38mm, or equivalent approved. Internal windows shall be double glazed. Windows and frames in patient accessed areas are to be flush faced.

Laminated / toughened glass of various thicknesses should be installed dependent upon the likelihood of patient injury or building damage. Graduate the impact resistance of the glass from toughest at lower level to weakest at high level. Where toughened glass is used it should be treated with a protective film to ensure glass is held together when broken.

In areas where damage to glass may be expected, avoid larger pane sizes. Smaller panes are inherently stronger for a given thickness than larger panes.

Polycarbonate is not recommended due to surface scratching which will reduce visibility over time.

Where windows are openable, effective security features such as narrow windows that will not allow patient escape, shall be provided. Locks, under the control of staff, shall be fitted.

### Space Standards and Components

Provide space for key areas according to the following guide:

- Lounge/ Activities areas for social activities, 3.5 m<sup>2</sup> per patient minimum
- Activities/ Dining areas, 5.5 m<sup>2</sup> per patient, minimum.
- Separate Dining area 1.5m<sup>2</sup> per patient.
- Courtyard and Terrace - minimum area - 20m<sup>2</sup>
- Outdoor areas (courtyards and terraces) - General - 5m<sup>2</sup> per person

### Safety and Security

The entry to the Child and Adolescent Mental Health Unit should have a direct view of the Reception/ Staff Station. Security features are required at all entrances and exits. These may include electronic locking, intercoms, and video surveillance (CCTV).

A separate secured entry may be required for patients arriving with a police escort (applicable to Adolescent Units only).

The design should assist staff to carry out their duties safely and to supervise patients by allowing or restricting access to areas in a manner which is consistent with patient needs/skills. Staff should be able to view patient movements and activities as naturally as possible, whenever necessary and may be assisted by CCTV where appropriate.

Controlled and/or concealed access will be required as an option in a number of functional areas.

All Meeting, Counselling, Group Therapy, Family Therapy and Review Board Meeting rooms require two means of egress and a duress alarm.

### Fixtures and Fittings

Furniture should be robust but light weight and designed to minimise damage or injury if thrown.

Fixtures and fittings should be safe and durable and avoid the potential to be used either as a weapon or to inflict personal damage.

Generally, all fixings should be heavy duty, concealed, and where exposed, tamper proof. Fittings, including hooks, curtain tracks, bathroom fittings, should be plastic where possible, and have a breaking strain of not more than 15kgs.

Paintings, mirrors and signage should be rigidly fixed to walls with tamper proof fixings.

Mirrors shall be of safety glass or other appropriate impact resistant and shatterproof construction. They shall be fully glued to a backing to prevent availability of loose fragments of broken glass.

Holland blinds, Venetian blinds and curtains should be avoided in patient areas. Curtain tracks, pelmets and other fittings that provide potential for patients to hang themselves should be avoided or designed so that the potential is removed.

### *Building Services Requirements*

Avoid exposed services; for example, sink wastes which may be easily damaged.

Refer to Part E of these Guidelines for further information.

## **4 Components of the Unit**

The Child and Adolescent Mental Health Unit will consist of Standard Components to comply with details described in these Guidelines. Refer also to Standard Components Room Data Sheets and Room Layout Sheets.



## 5 Schedule of Accommodation - Mental Health Unit - Child & Adolescent

### *Entry/Reception/Interview*

ROOM / SPACE	Standard Component					Level 5/6 Qty x m2	Remarks
AIRLOCK - ENTRY	AIRLE-10-I					1 x 10	
WAITING – MALE / FEMALE	WAIT-10-I					2 x 10	Separate areas for Male & Female
WAITING - FAMILY	WAIT-25-I					1 x 25	
PLAY AREA - PAEDIATRIC	PLAP-20-I					1 x 20	
TOILET- ACCESSIBLE	WCAC-I					2 x 6	Separate Male/ Female Including Baby Change
CONSULTATION ROOM (MENTAL HEALTH)	CONS-INT-MH-I					2 x 14	

### *Patient/Family Areas (8 Beds)*

ROOM / SPACE	Standard Component					8 Beds Qty x m2	
1 BEDROOM - MENTAL HEALTH	1 BR-MH-I					6 x 28	
ENSUITE – MENTAL HEALTH	ENS-MH-I					6 x 5	
1 BEDROOM – MENTAL HEALTH SPECIAL	1 BR-MH-I					2 x 28	For bariatric patients and/or a child and parent
ENSUITE - SUPER	ENS-SP-I					2 x 6	
BATHROOM	BATH-I					1 x 16	May use raised shower bath for small children
MEDICATION / TREATMENT ROOM	MED-MH-I					1 x 12	
BAY- HANDWASHING	BHWS-B-I					2 x 1	1 per 4 beds
BAY – RESUSCITATION TROLLEY	BRES-I					1 x 1.5	May be co-located with Medical/ Treatment Room
MEETING/ MULTIPURPOSE ROOM	MEET-L-20-I					1 x 20	Classroom, crafts; may include patient lockers for craft work
RECREATION / DAY AREA						1 x 42	Recreation/Dining Areas based on 7m2 per person x 6
PLAY THERAPY ROOM						1 x 12	
DINING ROOM	DINMH-30-I					1 x 30	Assumes 8 patients plus 4 family members
SERVERY/ PANTRY	SERV-MH-I					1 x 15	Collocated with Dining Room
QUIET / TIME OUT ROOM						1 x 9	
COMPUTER ROOM						1 x 12	
STORE – PATIENT PROPERTY	STPP-I					1 x 8	
LAUNDRY - SELF-CARE	LAUN-MH-I					1 x 6	Optional
GYMNASIUM	GYAH-45-I similar					1 x 20	Optional
PARENT LOUNGE	LNPA-12-I					1 x 12	
COURTYARD	CTSE-I similar					1 x 40	Based on 5m2 per person

### *High Dependency Unit (4 Beds)*

ROOM / SPACE	Standard					4 Beds	Remarks
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	Component					Qty x m2	
WAITING - SECURE	WAIT-SEC-I					1 x 6	Entry area
EXAMINATION /ASSESSMENT	EXAS-MH-I					1 x 15	
STAFF STATION	SSTN-10-I					1 x 10	Optional depending on planning layout
SECLUSION ROOM	SECL-I					1 x 12	
1 BEDROOM – MENTAL HEALTH	1 BR-MH-I					4 x 28	
PATIENT TOILET (MENTAL HEALTH)	ENS-MH-I similar					2 x 4	
PATIENT SHOWER (MENTAL HEALTH)	ENS-MH-I similar					2 x 4	
BAY HANDWASH	BHWS-B-I					1 x 1	
LOUNGE / DINING / ACTIVITY	LDA-MH-20-I similar					1 x 30	7.5m2 per person
COURTYARD	CTSE-I similar					1 x 40	10m2 per person

### *Clinical Support Areas*

ROOM / SPACE	Standard Component					Level 5/6 Qty x m2	Remarks
BAY - LINEN	BLIN-I					1 x 2	
DIRTY UTILITY	DTUR-10-I					1 x 10	
STAFF STATION	SSTN-14-I					1 x 14	
OFFICE – CLINICAL / HANDOVER	OFF-CLN-I					1 x 15	
STORE - EQUIPMENT	STEQ-14-I					1 x 14	
STORE - GENERAL	STGN-9-I					1 x 9	
CLEANER'S ROOM	CLRM-5-I					1 x 5	
DISPOSAL ROOM	DISP-8-I					1 x 8	
CIRCULATION ALLOWANCE %						32%	

### *Offices & Staff Amenities*

ROOM / SPACE	Standard Component					Level 5/6 Qty x m2	Remarks
OFFICE - CEO CLINICAL DIRECTOR	OFF-CEO-I					1 x 15	
OFFICE – SINGLE PERSON 12M2 PSYCHIATRIST	OFF-S12-I					1 x 12	
OFFICE – SINGLE PERSON, 9M2 NURSE MANAGER	OFF-S9-I					1 x 9	
OFFICE - WORKSTATION NURSING STAFF	OFF-WS-I					4 x 5.5	
OFFICE - WORKSTATION ALLIED HEALTH	OFF-WS-I					4 x 5.5	
OFFICE - WORKSTATION CLERICAL	OFF-WS-I					1 x 5.5	
OFFICE - WORKSTATION VISITING PROFESSIONALS	OFF-WS-I					2 x 5.5	
MEETING ROOM - LARGE	MEET-L-25-I					1 x 25	
STORE – PHOTOCOPY / STATIONERY	STPS-8-I					1 x 8	
STAFF ROOM	SRM-20-I					1 x 20	With Beverage Bay

ROOM / SPACE	Standard Component					Level 5/6 Qty x m2	Remarks
STAFF PROPERTY BAY	PROP-2-I					2 x 2	Separate for Male & Female
SHOWER - STAFF	SHST-I					1 x 3	
TOILET - STAFF	WCST-I					2 x 3	Separate for Male & Female

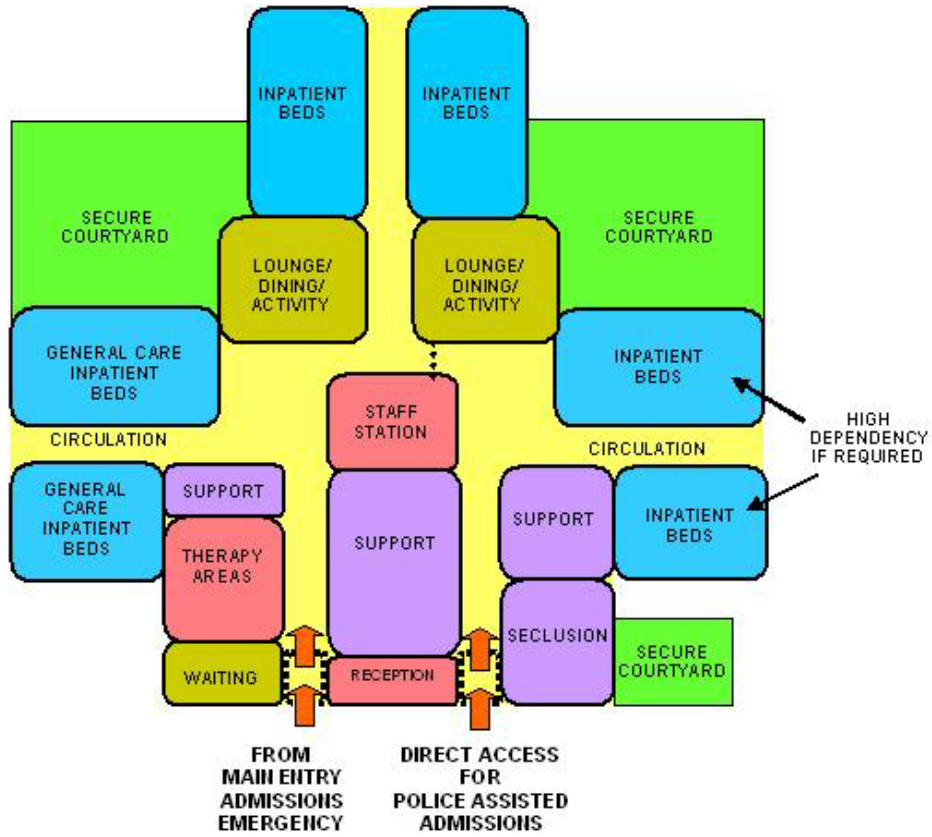
### *Day Unit*

ROOM / SPACE	Standard Component					Level 5/6 Qty x m2	Remarks
RECEPTION	RECL-12-I					1 x 12	
STORE – PHOTOCOPY / STATIONERY	STPS-8-I					1 x 8	
STORE - FILES	STFS-8-I					1 x 8	
WAITING - MALE / FEMALE	WAIT-20-I					2 x 20	Separate areas for Male & Female
WAITING - FAMILY	WAIT-25-I					1 x 25	
PLAY AREA - PAEDIATRIC	PLAP-15-I					1 x 15	
TOILET - ACCESSIBLE	WCAC-I					1 x 6	With Baby Change
TOILET – PUBLIC	WCPU-3-I					2 x 3	Separate for Male & Female
CONSULT ROOM – MENTAL HEALTH	CONS-INT-MH-I					4 x 14	No. to be determined by Service plan
OBSERVATION ROOM	OBS-I					1 x 9	One-way observation window
STORE - GENERAL	STGN-9-I					1 x 9	
CIRCULATION ALLOWANCE %						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 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 number of endorsed fulltime positions in the unit.
- 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.

6 Functional Relationship Diagram - Mental Health Unit - Child & Adolescent



## 7 References and Further Reading

- Australasian Health Facility Guidelines, Part B Health Facility Briefing and Planning, Adult Acute Mental Health Unit, Rev 5, 2012; refer to website [www.healthfacilitydesign.com.au](http://www.healthfacilitydesign.com.au)
- DH (Department of Health) NHS Estates (UK) Health Building Note 35 Accommodation for people with Mental Illness, part 1 – The Acute Unit., 2006; refer to website [www.estatesknowledge.dh.gov.uk](http://www.estatesknowledge.dh.gov.uk)
- The Facility Guidelines Institute (US), 2010 Edition. Guidelines for Design and Construction of Health Care Facilities) refer to website [www.fgiguideines.org](http://www.fgiguideines.org)



The International 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 iHFG standard rooms, and departments, and more than 100 custom report templates.

## HFBS Health Facility Briefing System



### Briefing Module

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