

## Part B - Health Facility Briefing and Planning

### 510 OBSTETRIC UNIT

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#### INTRODUCTION

##### General

510 .2.00	The Obstetric Unit is a discreet Unit providing facilities for the safe pre and post natal care of mothers and their babies
510 .3.00	The number of birthing preparation rooms and the size of the associated service areas shall be as required by the proposed obstetrical workload as outlined in the Operational Policy.

#### PLANNING

##### Planning Models

510 .4.00	The preferred design for an Obstetric Unit includes a number of self contained rooms allowing for the total birthing process. The processes involved are: <ul style="list-style-type: none"><li>- Labour</li><li>- Delivery / Birthing</li><li>- Recovery</li><li>- Postnatal (or Post-Partum)</li></ul> <p>The design model combining Labour, Delivery and Recovery in one room will be referred to as LDR. The design model combining all four processes will be referred to as LDRP.</p>
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##### Functional Areas

510 .5.00	The Obstetric Unit consists of the following functional areas: <ul style="list-style-type: none"><li>- Reception and arrival area including provisions for visitors and administrative activities</li><li>- Inpatient areas</li><li>- Birthing Areas</li><li>- Neonatal Nursery Area - general care</li><li>- Shared and Support areas including facilities that can be shared between</li></ul>
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zones or Units

### 510 .6.00 OPERATING ROOM

An Obstetric Unit shall have access to an Operating Room and support rooms. The minimum facilities required are:

- Operating Room to comply with Standard Components Operating Room - Minor, 36 m<sup>2</sup>
- Scrub-up/ Gowning Bay to comply with Standard Components Scrub-up/ Gowning, 6 m<sup>2</sup>
- Sterilising Area including a flash steriliser
- Two Patient Bed Bays for Recovery - to comply with Standard Components Patient Bay 9 m<sup>2</sup>.

The distance to the Operating Room should not exceed three minutes of travel. Such travel should take into consideration:

- 1 metre per second travel speed
- Lifts (if any) to be lockable
- Lift delay and travel included in the time
- Distance measured from Birthing Room to Operating Room.

### 510 .7.00 WATER BIRTHING

If water birthing is included in the Operational Policy, the Unit will require access to a dedicated Bathroom. The Bathroom will require a large peninsular bath, with access to both sides of the bath. The Bathroom shall have a minimum area of 15 m<sup>2</sup>. and comply with all other requirements noted in Standard Components - Bathroom.

Note: These Guidelines do not imply endorsement of Water Birthing as a safe or appropriate operational model.

## Functional Relationships

510 .8.00 The Obstetric Unit shall be located and designed to prohibit non-related traffic through the unit. When Birthing and Operating Rooms are in close proximity, access and service arrangements shall be such that neither staff nor patients need to travel through one area to reach the other.

510 .9.00 It is highly desirable that, if an Intensive Care facility is to be provided for Obstetric use, then it be located as near as possible to the Obstetric Unit.

## DESIGN

### Doors

510 .10.00 Appropriately sized and located doors shall be provided for emergency bed transfer to the Birthing or Operating Units.

## COMPONENTS OF THE UNIT

### Introduction

510 .11.00 The Obstetric 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

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- 510 .12.00 Provide the Standard Components as identified in the Schedule of Accommodation.

### Non-Standard Components

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- 510 .13.00 Provide the Non-Standard Components identified in this section and in the Schedule of Accommodation, according to the Operational Policy and Functional Brief.

#### 510 .14.00 DESCRIPTION AND FUNCTION

##### NURSERY - NEONATAL

The Neonatal Nursery will provide facilities for the care of well babies away from their mother's bed area and for the following functions:

- Bathing of babies using controlled temperature water
- Changing, cleaning and drying of babies
- Feeding of babies in comfortable chairs
- Hand-washing facilities
- Parent and staff education
- Phototherapy
- Resuscitation including oxygen, medical air and suction
- Sleeping of babies in daytime using partial blackout curtains
- Storage of supplies such as nappies, towels, creams and powders
- Waste and dirty linen disposal
- Weighing of babies
- Use of staff assistance call and emergency call.

A Neonatal Nursery in a hospital must have:

- A minimum floor area of 2.8 m<sup>2</sup> per bassinet and a minimum of one metre clear and unobstructed passageway between each bassinet with a minimum of one bassinet to every two obstetric beds.

#### 510 .15.00 LOCATION AND RELATIONSHIPS

The Neonatal Nursery should be located centrally to patient Bedrooms with direct observation from the Staff Station.

#### 510 .16.00 CONSIDERATIONS

The Neonatal Nursery will require the following:

- Natural and artificial lighting, colouring corrected to natural
- At least one clinical handbasin per four Neonatal Bays
- Clear glazed partitions installed complying with AS 1288, where provided
- General comfort air-conditioning
- An emergency call system complying with AS 3811
- A dedicated area within or adjacent to the nursery to allow easy examination and changing of the baby, and storage of necessary linen and equipment
- An area within the Nursery that can be made available for stabilisation prior to transport by a transport team.

Refer to Standard Components - Neonatal Bay - General Care for a description and room details required for each Neonatal Bay within the Nursery.

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## APPENDICES

### Obstetric Unit Generic Schedule of Accommodation

510.17.00 Schedule of Accommodation for an Obstetric Unit at Levels 3, 4, 5 & 6:

ROOM / SPACE	Standard Component		Level 3 Qty x m2	Level 4 Qty x m2	Level 5 Qty x m2	Level 6 Qty x m2	Remarks
			2 Rms	4 Rms	10 Rms	12 Rms	
BAY - LINEN	yes			1 x 3	2 x 3	2 x 3	Includes space for Blanket/ Fluid Warming Cabinet
BAY - MOBILE EQUIPMENT	yes				2 x 4	2 x 4	
BAY - RESUS TROLLEY	yes		1 x 2	1 x 2	1 x 2	1 x 2	
BIRTHING ROOM	yes		2 x 28	4 x 28	10 x 28	12 x 28	Labour, Delivery, Recovery, Postnatal
CLEANER'S ROOM	yes		1 x 4 optional	1 x 4	1 x 4	1 x 4	
CLEAN UTILITY	yes		1 x 12 optional	1 x 12	1 x 12	1 x 12	
DIRTY UTILITY	yes		1 x 10 optional	1 x 10	1 x 10	1 x 10	
DISPOSAL ROOM	yes		1 x 8 optional	1 x 8	1 x 8	1 x 8	
ENSUITE - SPECIAL	yes		2 x 7	4 x 7	10 x 7	10 x 7	If spa bath is required additional area may be required
EXAMINATION / ASSESSMENT	see remarks		1 x 28 optional	1 x 28 optional	2 x 28 optional	2 x 28 optional	Refer to Standard Component - Birthing Room
LOUNGE - PATIENT	yes		1 x 15 optional	1 x 15	1 x 20	1 x 20	
MEDICATION ROOM					1 x 6 optional	1 x 6 optional	May be incorporated into Clean Utility
PANTRY	yes		1 x 8 optional	1 x 8	1 x 8	1 x 8	
RECEPTION	yes		1 x 10 optional	1 x 10	1 x 10	1 x 10	
SCRUB-UP/ GOWNING	yes		1 x 6	2 x 6	5 x 6	6 x 6	May be located at Birthing Room entry; Shared between 2 Birthing Rooms
STAFF STATION	yes		1 x 14 optional	1 x 14	1 x 14	1 x 14	
STORE - BIRTHING ROOM			2 x 3 optional	4 x 3 optional	10 x 3 optional	10 x 3 optional	May be accommodated within the Birthing Room
STORE - EQUIPMENT	yes				1 x 20	1 x 20	
STORE - GENERAL	yes		1 x 9	1 x 9	2 x 9	2 x 9	
WAITING	yes		1 x 15 optional	1 x 15	1 x 20	1 x 20	
CIRCULATION %			35	35	35	35	

### 510.18.00 STAFF AND SUPPORT AREAS

Staff and Support Areas are dependent on the Operational Policy and management structure:

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ROOM / SPACE	Standard Component		Level 3 Qty x m2	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	1 x 9	1 x 9	Unit Manager
OFFICE - SINGLE PERSON 9 M2	yes				1 x 9 optional	1 x 9 optional	Nursing Educator, according to staffing establishment
OVERNIGHT STAY - BEDROOM	yes		1 x 10 optional	1 x 10 optional	1 x 10 optional	1 x 10 optional	For Medical staff on close call
OVERNIGHT STAY - ENSUITE	yes		1 x 3 optional	1 x 3 optional	1 x 3 optional	1 x 3 optional	
TOILET - STAFF	yes		1 x 2 optional	1 x 2	2 x 2	2 x 2	

### 510.19.00 SHARED AREAS - STAFF & SUPPORT AREAS

ROOM / SPACE	Standard Component		Level 3 Qty x m2	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	1 x 3	1 x 3	Co-located with Staff Room
CHANGE ROOM - STAFF	yes		1 x 8	1 x 8	2 x 8	2 x 8	Area dependent on staffing establishment
MEETING ROOM - MEDIUM	yes		1 x 15	1 x 15	1 x 20	1 x 20	
OFFICE - CLINICAL/ HANDOVER	yes				1 x 12	1 x 12	
SHOWER - STAFF	yes		1 x 2	1 x 2	1 x 2	1 x 2	
STAFF ROOM	yes			1 x 15	1 x 15	1 x 15	

### 510.20.00 SHARED AREAS - OPERATING UNIT

ROOM / SPACE	Standard Component		Level 3 Qty x m2	Level 4 Qty x m2	Level 5 Qty x m2	Level 6 Qty x m2	Remarks
OPERATING ROOM - MINOR	yes		1 x 36	1 x 36	1 x 36	1 x 36	
SCRUB-UP/ GOWNING	yes		1 x 6	1 x 6	1 x 6	1 x 6	
STERILISING AREA			1 x 6	1 x 6	1 x 6	1 x 6	
PATIENT BAY	yes		2 x 9	2 x 9	2 x 9	2 x 9	Recovery

### 510.21.00 NURSERY AREAS - GENERAL CARE

Note: Refer to Intensive Care - Neonatal/ Special Care Nursery for NICU/ Special Care Nursery requirements:

ROOM / SPACE	Standard Component		Level 3 Qty x m2	Level 4 Qty x m2	Level 5 Qty x m2	Level 6 Qty x m2	Remarks
BAY - LINEN	yes		1 x 2	1 x 2	2 x 2	2 x 2	
NURSERY - NEONATAL	see remarks		1 x 15	1 x 20	1 x 30	1 x 40	Refer to Standard Component Neonatal Bay-General Care for individual bays

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### Obstetric Unit Generic Schedule of Accommodation

#### 510 .22.00 SHARED AREAS - NURSERY

ROOM / SPACE	Standard Component		Level 3 Qty x m2	Level 4 Qty x m2	Level 5 Qty x m2	Level 6 Qty x m2	Remarks
BATHING / EXAMINATION			1 x 10	1 x 10	1 x 10	1 x 10	
FEEDING AREA			1 x 12	1 x 12	1 x 15	1 x 15	
FORMULA ROOM	yes		1 x 9	1 x 9	1 x 15	1 x 15	
STAFF STATION	yes		1 x 14	1 x 14	1 x 14	1 x 14	
STORE - GENERAL	yes		1 x 9	1 x 9	1 x 9	1 x 9	

### Maternity Inpatient Generic Schedule of Accommodation

510 .23.00 Refer to Inpatient Accommodation Unit Generic Schedule of Accommodation for requirements applicable to Maternity Inpatient Unit.

### References and Further Reading

- 510 .24.00
- American Institute of Architects, Guidelines for Design & Construction of Hospital & Healthcare Facilities. 1997.
  - Department of Human Services, Victoria, Neonatal Services Guidelines: defining levels of care in Victorian hospitals, 2004.
  - Health Department Western Australia, Private Hospital Guidelines, 1998.
  - NSW Health, Design Series 18, Health Building Guidelines - Obstetric Unit, 1992.
  - Queensland Government, Private Health Facilities Building Code, 2000.

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### FUNCTIONAL RELATIONSHIPS DIAGRAM - OBSTETRIC UNIT

