

Facility Name: _____

A: Clinical Support Services

The capability level of these support services are linked to the acuity of the patient and the number of acutely ill patients admitted to the facility. Turn-round time for these services is usually measured in hours rather than minutes therefore the opening hours and location of these services is usually a business management decision.

For all services appropriate access to information, records and results of interventions is critical. The service specified is assumed to be on-site unless specified otherwise.

The services included in this section are:

- A1 Pathology
- A2 Pharmacy
- A3 Diagnostic Imaging (excluding interventional radiology)

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A1. PATHOLOGY & LABORATORY SERVICES

Level	Checklist of Service Description
1	<ul style="list-style-type: none"> <input type="checkbox"/> Blood and diagnostic collecting facilities are available. <input type="checkbox"/> Collection staff appropriately trained in collection and specimen handling techniques are available.
2	<p>As Level 1 plus:</p> <ul style="list-style-type: none"> <input type="checkbox"/> A range of urgent tests available during normal working hours. <input type="checkbox"/> Pathologist available normal business hours, may be visiting or use telemedicine support. <input type="checkbox"/> Blood storage facilities are available on site with controlled stock of O-negative blood. <ul style="list-style-type: none"> o These tests may be performed by appropriately trained health workers using suitable Point of Care testing devices.
3	<p>As Level 2 plus:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Range of tests performed on site will include FBC, electrolytes, glucose, cross matching, basic coagulation, pregnancy testing, urine microscopy, and gram staining. <input type="checkbox"/> On site core pathology services operating normal working hours with 24 hour on-call access. <input type="checkbox"/> Pathologist available normal working hours. Not required to be on site. <ul style="list-style-type: none"> o The service may be part of network of laboratory services with a formal connection to a hub service which is Level 5 or greater.
4	<p>As Level 3 plus:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Range of tests performed on site will also include fine needle aspirations, frozen sections and bone marrows, liver function tests, cardiac enzymes, calcium, magnesium and phosphate. <input type="checkbox"/> On site core pathology services operating at least extended hours with 24 hour on-call access.
5	<p>As Level 4 plus:</p> <ul style="list-style-type: none"> <input type="checkbox"/> The range of tests available on site, determined by the clinical needs of the facility, are available in a timely manner. <input type="checkbox"/> On site core pathology services provided 24 hour service. <input type="checkbox"/> Pathologist(s) rostered on-site working hours and rostered on-call 24 hours.
6	<p>As Level 5 plus:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Will perform testing of a complex technical nature in fields such as molecular diagnostics, electron microscopy, flow cytometry and specialised inorganic chemical analysis. <input type="checkbox"/> All tests and results are able to be provided urgently.

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A2. PHARMACY

Level	Checklist of Service Description
1	<ul style="list-style-type: none"> <input type="checkbox"/> Pharmaceuticals supplied on individual prescription from retail pharmacy, or from another public hospital pharmacy for patients attending or resident in the facility.
2	<p>As Level 1 plus:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Limited clinical service supported by a regularly updated pharmacopoeia¹. <input type="checkbox"/> Registered Pharmacist available on a sessional basis. May be a community pharmacist on-site, adjacent, on-call or visiting. <input type="checkbox"/> Established mechanism to provide "out of hours" medications.
3	<p>As Level 2 plus:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Pharmacy-controlled drug distribution to inpatients. <input type="checkbox"/> Sterile dispensing and IV admixture service available. <input type="checkbox"/> Provides a specialist outpatient dispensing service. <input type="checkbox"/> Registered Pharmacist on-site normal working hours.
4	<p>As Level 3 plus:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Non-sterile manufacturing service. <input type="checkbox"/> Clinical pharmacy service includes drug information, drug monitoring, utilisation review & adverse drug reaction reporting. <input type="checkbox"/> Sterile manufacturing and IV admixture service including cytotoxic drugs if clinical unit present in hospital. <input type="checkbox"/> Registered Pharmacist on-site normal working hours and on-call 24 hours.
5	<p>As Level 4 plus:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Has developed subspecialty pharmacy support for Level 4 services or greater and supports a major hospital, or hospital network, which provides Level 5 or Level 6 services. <input type="checkbox"/> Registered Pharmacist on-site extended hours and on-call 24 hours.
6	Same as level 5.

¹ An official compendium of quality standards for pharmacologically active substances and drug products.

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A3. DIAGNOSTIC IMAGING	
Level	Checklist of Service Description
1	<ul style="list-style-type: none"> <input type="checkbox"/> Service has access to a range of plain X-ray dependant on operator's qualifications and unit's capacity available normal working hours. .
2	<p>As Level 1 plus:</p> <ul style="list-style-type: none"> <input type="checkbox"/> A designated x-ray facility with a bucky table. May be co-located with other clinical services. <input type="checkbox"/> Radiographer service available normal working hours. <input type="checkbox"/> Radiographer has formal access to Radiologist for consultation. May be teleradiology support provided off site.
3	<p>As Level 2 plus:</p> <ul style="list-style-type: none"> <input type="checkbox"/> General ultrasound service. <input type="checkbox"/> Radiographer service available extended working hours. <input type="checkbox"/> On-call radiographer for x-ray and ultrasound service 24 hours.
4	<p>As Level 3 plus:</p> <ul style="list-style-type: none"> <input type="checkbox"/> CT scanning service available normal working hours. <input type="checkbox"/> Mobile image intensifier in hospital facility to support theatre, CCU or ICU. <input type="checkbox"/> Full ultrasound service (including all modalities e.g. Doppler) supported by sonographers. <input type="checkbox"/> Radiographer service available extended hours with on-call after hours service. <input type="checkbox"/> Specialist Radiologists on site during normal working hours and on-call after hours. May be teleradiology support.
5	<p>As Level 4 plus:</p> <ul style="list-style-type: none"> <input type="checkbox"/> CT scan, MRI and full ultrasound service, available 24 hours on site. <input type="checkbox"/> Access to Digital Subtraction Angiography locally. <input type="checkbox"/> Specialist Radiologists on-site normal hours and on-call 24 hours. Will not be teleradiology or provided by offsite support.
6	<ul style="list-style-type: none"> <input type="checkbox"/> As Level 5.

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B: Patient Clinical Support Services – on-site

These services, although support in nature are critically important for patient safety. Above level 4 they must be provided in the facility and adjacent to clinical services as turn-around time is often immediate.

The services included in this section are:

- B1 Anaesthetic Services
- B2 Operating Theatres
- B3 Interventional Radiology
- B4 Critical Care Services (ICU/HDU)
- B5 Coronary Care Units

B1 ANAESTHETIC SERVICES

In describing anaesthetic service provision the Queensland Health "Clinical Services Capability Framework v3.1 2013" has been adopted. This is a matrix of the physical status of the patient adopted from the American Society ASA (American Society of Anesthesiologists) Scale and surgical complexity and is known as the Anaesthetic Service Capability Matrix.

Table one: Level of Anaesthetic Risk & Physical Status

	Physical status Adults	Physical status Paediatrics
Low	ASA1 and ASA2	ASA1 and ASA2
Medium	ASA3	ASA3
Risk	ASA4 and ASA5	ASA4 and ASA5

Table Two: Anaesthetic & Surgical Service Capability Matrix

Surgical Complexity	Surgical Anaesthetic Risk (Physical Status)		
	Low	Medium	High
Minor	Level 2	Level 2	Level 2
Intermediate	Level 2	Level 3	Level 4
Complex	Level 3	Level 4	Level 5

Level	Checklist of Service Description	Minimum Level of Support							
		Anaes	Op Theatre	Inter Rod	ICU/HDU	CCU	Pathology	Pharmacy	Diag Imog
1	<input type="checkbox"/> Analgesia/sedation available by Medical Officer or General Practitioner as part of a primary care or community service only.	-	-	-	-	-	1	1	-
2	As Level 1 plus: <input type="checkbox"/> Supports minor surgery on patient with up to medium risk and intermediate surgery on low risk patients. <input type="checkbox"/> Specialists Anaesthetist available normal business hours for consultation. May be visiting.	-	2	-	-	-	1	1	-
3	As Level 2 plus: <input type="checkbox"/> Supports intermediate surgery on medium risk patients, and complex surgery on low risk patients. <input type="checkbox"/> Provides all types of sedation, neuraxial block and regional blocks. <input type="checkbox"/> Specialist Anaesthetist on site during normal working hours and on -call roster after hours.	-	3	-	3	2	2	3	3

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4	As Level 3 plus: <ul style="list-style-type: none"> <input type="checkbox"/> Supports surgery of all patients except those having complex surgery with a high level of risk. <input type="checkbox"/> Provides acute pain management service. <input type="checkbox"/> Rostered Anaesthetist available on-site extended hours and rostered on-call after hours. 	-	4	-	4	3	4	4	4
5	As Level 4 plus: <ul style="list-style-type: none"> <input type="checkbox"/> Supports surgery of all complexity on patients with all levels of anaesthetic risk. <input type="checkbox"/> Does not transfer patients for anaesthetic risk. <input type="checkbox"/> Anaesthetic Registrar or SMO <u>on site 24 hours</u> a day. 	-	5	-	5	4	4	4	4
6	As Level 5:	-	5	-	5	4	4	4	4

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B2. OPERATING THEATRES

The Anaesthetic Service Capability Framework described in Anaesthetics is also used to describe Operating Theatre complexity.

Level	Checklist of Service Description
1	<ul style="list-style-type: none"> <input type="checkbox"/> Procedure Room used for therapeutic and minor surgical procedures provided by General Practitioners or Medical Officers.
2	<p>As Level 1 plus:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Supports minor surgery on patient with up to medium risk and intermediate surgery on low risk patients. <input type="checkbox"/> Operating room equipped for minor and intermediate diagnostic and therapeutic surgical procedures. <input type="checkbox"/> Service provided in daytime hours.
3	<p>As Level 2 plus:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Supports intermediate surgery on medium risk patients, and complex surgery on low risk patients. <input type="checkbox"/> Has a separate recovery area and a minimum of two operating theatres. <input type="checkbox"/> Service provided normal working hours with theatre staff rostered on-call after hours.
4	<p>As Level 3 plus:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Supports surgery for all patients except those having complex surgery with a high level of risk. <input type="checkbox"/> One acute operating theatre immediately available 24 hours with on-call theatre staff. <input type="checkbox"/> Has immediate on-site access to a Level 3 or greater critical care service.
5	<p>As Level 4 plus:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Supports surgery of all complexity on patients with all levels of anaesthetic risk. <input type="checkbox"/> Has immediate access to a Level 4 or greater critical care service. <input type="checkbox"/> Two acute operating theatres immediately available 24 hours with on-site theatre staff.
6	<p>Same as Level 5 plus:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Has immediate access to a Level 5 or greater critical care service.

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B3. INTERVENTIONAL RADIOLOGY

Interventional radiology is defined as the use of diagnostic imaging techniques to guide a catheter or needle to specific anatomical location. This model includes cardiac intervention.

Level	Checklist of Service Description
1	<input type="checkbox"/> No Service
2	<input type="checkbox"/> No Service
3	<input type="checkbox"/> No Service
4	As Level 3 plus: <input type="checkbox"/> Vascular diagnostic and interventional procedures. <input type="checkbox"/> Service is available normal working hours. May be a visiting service.
5	As Level 4 plus: <input type="checkbox"/> Cardiac Catheter Laboratory. And/or <input type="checkbox"/> Supports radiological interventions where an interventional therapeutic procedure is likely to result from a diagnostic assessment. And <input type="checkbox"/> Has registered nurses and/or technical staff to support more complex patients and procedures. <input type="checkbox"/> Service is available on-site normal working hours. <input type="checkbox"/> Level 4 Anaesthetics, Intensive Care, Coronary Care and Operating Suite Services are on-site.
6	As Level 5 plus: <input type="checkbox"/> Service is immediately available 24 hours and provides emergency procedures. <input type="checkbox"/> Specialist medical staff in radiology, and/or cardiology, are rostered on-site normal hours and rostered on-call after hours.

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B4: CRITICAL CARE SERVICES (ICU/HDU)

Critical Care Services is used to describe Intensive Care Unit (ICU) and High dependency Unit (HDU) care provided within facilities to support at risk patients in all inpatient facilities.

Level	Checklist of Service Description	Minimum Level of Support							
		Anaes	Op Theatre	Inter Rad	ICU/HDU	CCU	Pathology	Pharmacy	Diag Imag
1	<input type="checkbox"/> No Service	-	-	-	-	-	-	-	
2	<input type="checkbox"/> Immediate resuscitative management of the unexpectedly critically ill.	2	2	-	-	-	1	2	2
3	Level 2 plus <input type="checkbox"/> Identified facility in the hospital designated as either an HDU (High dependency Unit) and/or ICU (Intensive Care Unit) with clear admission and discharge policy. <input type="checkbox"/> Provides mechanical ventilation and simple invasive cardiovascular monitoring and inotropic support for less than 24 hours. <input type="checkbox"/> Specialist medical officer with interest in intensive care rostered in normal working hours. And/or <input type="checkbox"/> SMO cover for individual patients by other rostered specialty.	3	3	-	-	2	2	3	3
4	As Level 3 plus: <input type="checkbox"/> Provides complex multi-system life support for several days. <input type="checkbox"/> Designated ICU which excludes HDU patients. <input type="checkbox"/> Specialist medical officer with interest in intensive care rostered in normal working hours.	4	4	-	-	3	4	4	4
5	As Level 4 plus: <input type="checkbox"/> Service provides complex multi-system life support for an indefinite period. Specialist Intensivist rostered normal working hours and rostered on-call after hours.	5	5	4	-	4	4	5	5
6	As Level 5 plus: <input type="checkbox"/> May be sub-specialised e.g.; cardiovascular ICU, Paediatric ICU. <input type="checkbox"/> Provides complex life support which includes services such as Extra Corporeal Membrane Oxygenation (ECMO) and mechanical cardiac support.	5	5	5	-	5	5	5	5

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B5. CORONARY CARE UNITS								
Coronary Care is a discrete unit within the health facility which is able to supply critical care expertise for coronary patients, by providing a level of care more intensively than ward based care.								
Level	Checklist of Service Description	Minimum Level of Support						
		Anaes	Op Theat	Inter Rad	ICU/HDU	CCU	Pathology	Pharmacy
1	<input type="checkbox"/> No service	-	-	-	-	-	-	-
2	<input type="checkbox"/> Immediate resuscitative management of the critically ill.	-	-	-	-	-	1	2 2
3	As Level 2 plus: <input type="checkbox"/> Provides inotropic support. <input type="checkbox"/> Designated area with bedside monitoring. May be combined with ICU/HDU. <input type="checkbox"/> Specialist medical officer with interest in coronary care rostered in normal working hours.	3	3	-	3	-	2	3 3
4	As Level 3 plus: <input type="checkbox"/> Designated coronary care area. <input type="checkbox"/> Provides cardiology diagnostics on site and available during extended hours. Will include stress testing, holter monitoring and ultrasound. <input type="checkbox"/> Specialist cardiologist on site during normal working hours.	4	4	4	4	-	4	4 4
5	As Level 4 plus: <input type="checkbox"/> Invasive cardiac monitoring available. <input type="checkbox"/> Has on-site access to angiography, angioplasty and permanent pacemaker services during normal hours. <input type="checkbox"/> Specialist cardiologist rostered on-site during normal working hours and on call after hours.	5	5	5	5	-	4	5 5
6	As Level 5 plus <input type="checkbox"/> Capable of all forms of cardiac assessment, monitoring and therapy including intra-aortic balloon pump support. <input type="checkbox"/> 24 hour on-call access to angiography, angioplasty and permanent pacemaker services. <input type="checkbox"/> Immediate access to on-site cardiac surgery. <input type="checkbox"/> Specialist Cardiologists with procedural expertise available on site during normal working hours and rostered on-call after hours.	5	5	6	6	-	5	5 5

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C: Emergency Medicine Services

Emergency services are key entry points into acute care working at the interface between the community, general practice and hospitals. While closely related to the role of the hospital or service in which it functions this aspect of the model describes the function of the Emergency Department and the responsibilities of Emergency Medicine as a discrete service.

The framework has been adapted from the Australasian College of Emergency Medicine, Statement on Emergency Department Role Delineation², as well as the NSW Role Delineation Model³, the Queensland Clinical Services Capability Model⁴ and the "Roadside to Bedside"⁵ Report.

Emergency Medicine is a field of practice based on the knowledge and skills required for the prevention diagnosis and management of acute and urgent aspects of illness and injury affecting patients of all age groups with a full spectrum of undifferentiated physical and behavioural disorders.⁶

² Australasian College for Emergency Medicine. "Statement on Emergency Department Role Delineation"

³ NSW Health. "Guide to the Role Delineation of Health Services" Third Edition 2002

⁴ Queensland Health. "Clinical Services Capability Framework" 2004

⁵ Ministry of Health. "Roadside to Bedside" 1999

⁶ Australasian College for Emergency Medicine. "Policy Document – Standard Terminology"

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C1: EMERGENCY MEDICINE								
Level	Description	Minimum Level of Support						
		Ances	Theatre	Inter Rod	ICU/HDU	CCU	Path	Pharm
1	<input type="checkbox"/> Non-scheduled urgent medical services for minor illness and injury. <input type="checkbox"/> Resuscitation and limited stabilisation prior to referral to a higher level of care. <input type="checkbox"/> Medical officer or General Practitioner on-call for designated hours.	-	-	-	-	-	-	-
2	Level 1 plus: <input type="checkbox"/> Manages a range of acute illness and injury. <input type="checkbox"/> Designated assessment and treatment area. <input type="checkbox"/> Planned access to retrieval and transfer system. <input type="checkbox"/> Medical Officers available on-site during opening hours.	2	-	-	-	-	2	2
3	Level 2 plus: <input type="checkbox"/> Manages all emergencies, including stabilisation and assisted ventilation. <input type="checkbox"/> Experienced Medical Officers trained in resuscitation rostered on-site 24 hours. <input type="checkbox"/> Level 3 or higher general medicine, general surgery and paediatrics (unless children diverted to paediatric ED).	3	3	-	3	3	3	3
4	Level 3 plus: <input type="checkbox"/> Emergency Medicine Specialists rostered normal working hours. <input type="checkbox"/> Level 4 or higher gynaecology and orthopaedics, or equivalent.	3	3	-	4	4	4	4
5	Level 4 plus: <input type="checkbox"/> Emergency Medicine Specialists rostered on-site extended hours and rostered on-call after hours. <input type="checkbox"/> Paediatric trained nursing staff rostered 24 hours.	4	4	4	4	5	5	5
6	Level 5 plus: <input type="checkbox"/> Manages all emergencies providing definitive emergency care for all. <input type="checkbox"/> Capacity for invasive monitoring and short term assisted ventilation. <input type="checkbox"/> Neurosurgery and Cardiothoracic Surgery available normal working hours and rostered on-call after hours. <input type="checkbox"/> Advanced Emergency Medicine registrars on-site 24 hours.	5	5	6	5	6	5	5

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D: Medicine

Several specialties and sub-specialties may comprise medical services, which require significant support services to provide safe patient care.

Medical services encompass internal medicine services provided for patients, by medical practitioners and/or a range of specialists, with adequate support services. Additionally, a small number of patients may require super-specialist services, which deal with complex clinical issues and often result in a high cost per episode of care.

Medical services are made up of the following specialties:

- D1 General Medicine
- D2 Cardiology
- D3 Dermatology
- D4 Diabetes & Endocrinology
- D5 Gastroenterology
- D6 Genetics & Metabolic Medicine
- D7 Infectious Diseases
- D8 Immunology
- D9 Neurology
- D10 Palliative Care Medicine
- D11 Renal Medicine
- D12 Respiratory Medicine
- D13 Rheumatology

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D1. GENERAL MEDICINE									
Level	Description	Minimum Level of Support							
		Anaes	Theatre	Intr Rad	ICU/HDU	CCU	Path	Pharm	Diag Imag
1	<input type="checkbox"/> Primary and emergency care which may include stabilisation prior to moving to appropriate higher level of service. <input type="checkbox"/> Provided by rostered general practitioners or medical officers.	-	-	-	-	-	1	1	1
2	As Level 1 plus: <input type="checkbox"/> General Physician outpatient consultation during normal working hours. May be visiting. And/or <input type="checkbox"/> Designated inpatient beds in a healthcare facility cared for by an available Medical Officer or general practitioner.	1	1	-	-	-	2	2	2
3	As Level 2 plus: <input type="checkbox"/> Inpatient and outpatient general medical service. <input type="checkbox"/> Specialist physicians rostered in normal working hours with rostered on-call for after hours. <input type="checkbox"/> Consultations available from other specialists on referral which must include cardiology. May be visiting. <input type="checkbox"/> Has 24 hour access to Medical Officer or RMO rostered on site	2	2	-	2	3	3	3	3
4	As Level 3 plus: <input type="checkbox"/> Access to Level 4 cardiology and gastroenterology services on site. <input type="checkbox"/> Consultations available from other medical sub-specialists which must include palliative care, renal medicine, respiratory medicine and diabetes. May be visiting and/or available for consult. <input type="checkbox"/> Specialist Physicians rostered on extended hours with rostered on-call for after hours.	3	3	-	3	4	4	4	4
5	As Level 4 plus: <input type="checkbox"/> Access to Level 5 palliative care, renal medicine and respiratory medicine services on site. <input type="checkbox"/> Consultations available from other medical sub-specialists which must include neurology. <input type="checkbox"/> Planned access to Nuclear Medicine services that provides therapeutic administration of high-dose radiopharmaceuticals, including those requiring treatment as an inpatient. <input type="checkbox"/> Access to a dedicated stroke service on site.	4	4	4	4	5	5	5	5
6	As Level 5 plus: <input type="checkbox"/> Access to Level 5 neurology services on site.	4	4	5	5	6	6	5	5

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D2. CARDIOLOGY								
Level	Description	Minimum Level of Support						
		Anaes	Theatre	Inter Rad	ICU/HDU	CCU	Path	Pharm
1	<input type="checkbox"/> No Planned Service.	-	-	-	-	-	-	-
2	<input type="checkbox"/> General outpatient consultations for cardiology. May be visiting.	-	-	-	-	-	2	2
3	As Level 2 plus: <input type="checkbox"/> Provides an inpatient and outpatient cardiology service. <input type="checkbox"/> Provides cardiology diagnostics including echocardiography (e.g. Stress, TOE) in normal working hours. <input type="checkbox"/> General Physicians, with interest in cardiology, or specialist cardiologist, rostered normal working hours. <input type="checkbox"/> Level 3 General Medicine Service on site.	2	2	-	2	3	3	3
4	As Level 3 plus: <input type="checkbox"/> Specialist cardiologist, rostered normal working hours and rostered on call after hours. <input type="checkbox"/> Level 4 General Medicine Service on site.	3	3	-	3	4	4	4
5	As Level 4 plus: <input type="checkbox"/> Provides complex cardiology services including removal of pacing wires, cardiac biopsies and mitral & aortic valvuloplasty. <input type="checkbox"/> Provides planned interventional cardiology during normal working hours. <input type="checkbox"/> Level 5 General Medicine Service on site.	4	4	4	4	5	5	5
6	As Level 5 plus: <input type="checkbox"/> Provides the most complex of cardiology services including percutaneous VSD closure. <input type="checkbox"/> Cardiology sub-specialists rostered extended hours. <input type="checkbox"/> Cardiovascular unit and cardiothoracic surgery on site and available 24 hours. <input type="checkbox"/> Level 6 General Medicine Service on site. <input type="checkbox"/> Does not transfer for cardiology services.	4	4	6	5	6	6	5

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D3. DERMATOLOGY								
Level	Description	Minimum Level of Support						
		Anaes	Theatre	Inter Rad	ICU/HDU	CCU	Path	Pharm
1	<input type="checkbox"/> No Planned Service.	-	-	-	-	-	-	-
2	<input type="checkbox"/> General outpatient consultations for dermatology. May be visiting.	1	1	-	-	-	2	2
3	As Level 2 plus: <input type="checkbox"/> General physician with interest in dermatology, or specialist dermatologist available normal working hours. May be visiting. <input type="checkbox"/> Provides minor surgical skin procedures and treatments such as excisions and light therapy. May be off site. <input type="checkbox"/> Level 3 General Medicine Service on site.	2	2	-	2	-	3	3
4	As for Level 3 plus: <input type="checkbox"/> Specialist dermatologist available normal working hours to attend.	3	3	-	3	-	4	4
5	As Level 4 plus: <input type="checkbox"/> Inpatient admissions under a dermatologist. <input type="checkbox"/> On-site access to Level 5 Medical and Radiation Oncology service for the management of complex treatments.	4	4	4	5	5	5	5
6	Same as Level 5: <input type="checkbox"/> Specialist dermatologist rostered normal working hours and rostered on-call after hours. <input type="checkbox"/> Does not transfer patients for dermatology.	4	4	4	5	5	5	5

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D4. DIABETES & ENDOCRINOLOGY

		Minimum Level of Support							
Level	Description	Anaes	Theatre	Inter Rad	ICU/HDU	CCU	Path	Pharm	Diag Imag
1	<input type="checkbox"/> No Planned Service.	-	-	-	-	-	-	-	-
2	<input type="checkbox"/> General outpatient consultations for diabetes and/or endocrinology. May be visiting.	-	-	-	-	-	2	2	2
3	As Level 2 plus: <input type="checkbox"/> Provides an inpatient and outpatient diabetes/endocrinology service. <input type="checkbox"/> General physician with interest in diabetes and/or endocrinology, or specialist, available normal working hours. May be visiting. <input type="checkbox"/> Level 3 General Medicine Service on site.	2	2	-	2	3	3	3	3
4	As Level 3 plus: <input type="checkbox"/> Provides comprehensive diabetes/endocrinology service. <input type="checkbox"/> Ensures the provision of diabetic ophthalmology. <input type="checkbox"/> Diabetes specialist and/or endocrinologist rostered normal working hours. <input type="checkbox"/> Level 4 General Medicine Service on site.	3	3	-	3	4	4	4	4
5	As Level 4 plus: <input type="checkbox"/> Identified specialist adolescent diabetes outpatient services. <input type="checkbox"/> Diabetes specialist and/or endocrinologist rostered normal working hours and rostered on-call after hours. <input type="checkbox"/> Level 5 General Medicine Service on site.	4	4	4	4	5	5	5	5
6	As Level 5 plus: <input type="checkbox"/> Never transfers patients for diabetes/endocrinology care. <input type="checkbox"/> On-site access to Level 5 renal medicine service. <input type="checkbox"/> Level 6 General Medicine Service on site. <input type="checkbox"/> Does not transfer patients for diabetes/endocrinology medicine.	4	4	5	5	6	6	5	5

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D5. GASTROENTEROLOGY								
Level	Description	Minimum Level of Support						
		Anaes	Theatre	Inter Rad	ICU/HDU	CCU	Path	Pharm
1	<input type="checkbox"/> No Planned Service.	-	-	-	-	-	-	-
2	<input type="checkbox"/> General outpatient consultations for gastroenterology. May be visiting.	1	1	-	-	-	2	2
3	As Level 2 plus: <input type="checkbox"/> General physician with interest in gastroenterology, or specialist gastroenterologist available normal working hours. May be visiting. <input type="checkbox"/> Elective fibre optic scoping service. <input type="checkbox"/> Level 3 General Medicine Service on site.	2	2	-	2	3	3	3
4	As Level 3 plus: <input type="checkbox"/> Comprehensive inpatient and outpatient gastroenterology service. <input type="checkbox"/> Fibre optic scoping service provided by gastroenterologist and/or general surgeons. <input type="checkbox"/> Specialist gastroenterologist rostered normal working hours. <input type="checkbox"/> Level 4 General Medicine Service on site.	3	3	-	3	4	4	4
5	As Level 4 plus: <input type="checkbox"/> Inpatient admissions under a gastroenterologist. <input type="checkbox"/> Specialist gastroenterologist rostered normal working hours and rostered on call after hours. <input type="checkbox"/> Level 5 General Medicine Service on site.	4	4	4	4	5	5	5
6	As Level 5 plus: <input type="checkbox"/> Does not transfer patients for gastroenterology care. <input type="checkbox"/> Sub-specialised interest in hepatology services on-site. <input type="checkbox"/> Level 6 General Medicine Service on site. <input type="checkbox"/> Does not transfer patients for gastroenterology medicine.	4	4	5	5	6	6	5

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D6: GENETICS & METABOLIC MEDICINE

Level	Description	Minimum Level of Support							
		Anaes	Theatre	Inter Rad	ICU/HDU	CCU	Path	Pharm	Imag Diag
1	<input type="checkbox"/> No Planned Service	-	-	-	-	-	-	-	-
2	<input type="checkbox"/> No Planned Service	-	-	-	-	-	-	-	-
3	<input type="checkbox"/> Access to telephone advisory genetic service.	-	-	-	-	-	-	-	-
4	<input type="checkbox"/> Provision of an ambulatory genetics service. <input type="checkbox"/> Services provided by an associate or certified genetic counsellor. May be a visiting service. <input type="checkbox"/> Counselling and diagnostic services provided by clinical geneticists in normal working hours. May be visiting or a telephone consult service. <input type="checkbox"/> Level 3 General Medicine Service on site.	2	2	-	-	-	4	4	4
5	As Level 4 plus: <input type="checkbox"/> Specialist geneticist available normal working hours. <input type="checkbox"/> Co-located with genetics laboratory services	2	2	-	-	-	5	5	5
6	Same as Level 5 plus: <input type="checkbox"/> Does not transfer patients for genetics and/or metabolic medicine.	2	2	-	-	-	6	5	5

Facility Name: _____

D7: INFECTIOUS DISEASES								
Level	Description	Minimum Level of Support						
		Anoes	Theatre	Inter Rad	ICU/HDU	CCU	Path	Pharm
1	<input type="checkbox"/> No Planned Service	-	-	-	-	-	-	-
2	<input type="checkbox"/> Provides a general outpatient and consulting infectious diseases service. May be visiting	-	-	-	-	-	2	2
3	As Level 2 plus: <input type="checkbox"/> General physician with interest in infectious diseases medicine rostered normal working hours. <input type="checkbox"/> Level 3 General Medicine Service on site.	2	2	-	2	3	3	3
4	As Level 3 plus: <input type="checkbox"/> Comprehensive infectious diseases service including outpatients and inpatient admissions. <input type="checkbox"/> Infectious diseases specialist rostered normal working hours. <input type="checkbox"/> Designated isolation facilities on-site.	3	3	-	3	4	4	4
5	As Level 4 plus: <input type="checkbox"/> Negative air pressure isolation rooms. <input type="checkbox"/> Inpatient admissions under an infectious diseases specialist. <input type="checkbox"/> Infectious diseases specialist rostered normal working hours and on-call after hours.	4	4	-	4	5	5	5
6	As Level 5 plus: <input type="checkbox"/> Designated inpatient area for infectious and communicable diseases. <input type="checkbox"/> Facilities to treat all quarantinable diseases. <input type="checkbox"/> Does not transfer patients for infectious diseases medicine.	4	4	-	5	6	6	5

Facility Name: _____

D8: IMMUNOLOGY								
Level	Description	Minimum Level of Support						
		Anaes	Theatre	Inter Rad	ICU/HDU	CCU	Path	Pharm
1	<input type="checkbox"/> No Planned Service.	-	-	-	-	-	-	-
2	<input type="checkbox"/> No Planned Service.	-	-	-	-	-	-	-
3	<input type="checkbox"/> Provision of an outpatient immunology service. May be on a visiting basis.	1	1	-	-	-	2	2
4	As Level 3 plus: <input type="checkbox"/> Immunology specialist available normal working hours. <input type="checkbox"/> Level 3 General Medicine Service on site. May be a general physician with interest in immunology rostered normal working hours.	2	2	-	2	3	3	3
5	As Level 4 plus: <input type="checkbox"/> Inpatient admissions under an immunologist.	4	4	-	4	5	5	5
6	As Level 5 plus: <input type="checkbox"/> Specialist immunologist rostered normal working hours and rostered on call after hours. <input type="checkbox"/> Does not transfer patients for immunology medicine.	4	4	4	5	6	6	5

Facility Name: _____

D9: NEUROLOGY								
Level	Description	Minimum Level of Support						
		Anaes	Theatre	Intr Rod	ICU/HDU	CCU	Path	Pharm
1	<input type="checkbox"/> No Planned Service	-	-	-	-	-	-	-
2	<input type="checkbox"/> General outpatient consultations for neurology. May be visiting.	1	1	-	-	-	2	2
3	As level 2 plus: <input type="checkbox"/> General physician with interest in neurology or specialist neurologist rostered normal working hours. <input type="checkbox"/> Level 3 General Medicine Service on site.	2	2	-	2	3	3	3
4	As Level 3 plus: <input type="checkbox"/> A general neurology outpatient & inpatient neurology service. <input type="checkbox"/> Specialist neurologist rostered normal working hours. <input type="checkbox"/> Level 4 General Medicine Service on site.	3	3	-	3	4	4	4
5	As Level 4 plus: <input type="checkbox"/> Provides a comprehensive neurology outpatient & inpatient neurology service including EMG, nerve conduction, evoked responses and EEG available on site. <input type="checkbox"/> Neurology specialists' rostered normal working hours and rostered on-call after hours. <input type="checkbox"/> May support a dedicated stroke service <input type="checkbox"/> Level 5 General Medicine Service on site.	4	4	4	4	5	5	5
6	As Level 5: <input type="checkbox"/> Level 5 Neurosurgical service on-site. <input type="checkbox"/> Level 6 General Medicine Service on site. <input type="checkbox"/> Does not transfer patients for neurology medicine.	4	4	5	5	6	6	5

Facility Name: _____

D10: PALLIATIVE CARE MEDICINE

Level	Description	Minimum Level of Support							
		Anaes	Theatre	Inter Rad	ICU/HDU	CCU	Path	Pharm	Imag Diag
1	<input type="checkbox"/> Community based services including district nursing and hospice nursing.	-	-	-	-	-	1	1	1
2	As Level 1 plus: <input type="checkbox"/> General Practitioner or Medical Officer or RMO with special interest working from a community facility providing consultations in the community.	-	-	-	-	-	1	1	1
3	As Level 2 plus: <input type="checkbox"/> Palliative consultation and referral service. <input type="checkbox"/> Specialist palliative care physician or GP/SMO with special interest available normal working hours. <input type="checkbox"/> Community inpatient care provided in specialised Hospice or Residential Service.	2	2	-	2	3	3	3	3
4	As Level 3 plus: <input type="checkbox"/> Inpatient admissions under an acute senior medical officer service such as medicine or oncology. <input type="checkbox"/> Palliative Care Specialists rostered in normal working hours for referral and consultation. <input type="checkbox"/> Level 4 General Medicine Service on site.	3	3	-	3	4	4	4	4
5	As Level 4 plus: <input type="checkbox"/> Has formal links with oncology, radiotherapy, anaesthetics, psychiatry multidisciplinary pain clinic, and surgical services. <input type="checkbox"/> Level 5 General Medicine Service on site.	4	4	4	4	5	5	5	5
6	As for Level 5 plus: <input type="checkbox"/> Comprehensive specialist palliative care service. <input type="checkbox"/> Palliative care specialists rostered extended hours and rostered on-call after hours. <input type="checkbox"/> Level 6 General Medicine Service on site. <input type="checkbox"/> Does not transfer patients for palliative medicine excluding hospice transfers.	4	4	5	5	6	6	5	5

Facility Name: _____

D11: RENAL MEDICINE								
Level	Description	Minimum Level of Support						
		Anaes	Theatre	Infer Road	ICU/HDU	CCU	Path	Pharm
1	<input type="checkbox"/> No Planned Service.	-	-	-	-	-	-	-
2	<input type="checkbox"/> General outpatient consultations for nephrology. May be visiting.	-	-	-	-	-	2	2
3	As Level 2 plus: <input type="checkbox"/> General physician with interest in nephrology, or specialist nephrologist available normal working hours. May be visiting. <input type="checkbox"/> Self care dialysis centre and/or CAPD & Home Haemodialysis. <input type="checkbox"/> Formal relationships with a Level 5 or greater Renal Medicine Service <input type="checkbox"/> Level 3 General Medicine Service on site.	2	2	-	2	3	3	3
4	As Level 3 plus: <input type="checkbox"/> Comprehensive Renal Inpatient and Outpatient Service. <input type="checkbox"/> Specialist nephrologist rostered normal working hours. <input type="checkbox"/> Level 4 General Medicine service on site.	3	3	-	3	4	4	4
5	As Level 4 plus: <input type="checkbox"/> All types of dialysis available including treatment of patients requiring incentre haemodialysis. <input type="checkbox"/> Renal biopsies performed. <input type="checkbox"/> Specialist nephrologist, rostered normal working hours and rostered on call after hours. <input type="checkbox"/> Level 5 General Medicine Service on site.	4	4	4	4	5	5	5
6	As Level 5 plus: <input type="checkbox"/> Formal on-site relationship with renal transplantation centre provided by a level 5, or greater General Surgical Service. <input type="checkbox"/> Level 6 General Medicine Service on site. <input type="checkbox"/> Does not transfer patients for renal medicine.	4	4	5	5	6	6	5

Facility Name: _____

D12: RESPIRATORY MEDICINE								
Level	Description	Minimum Level of Support						
		Ances	Theatre	Inter Rod	ICU/HDU	CCU	Path	Pharm
1	<input type="checkbox"/> No Planned Service.	-	-	-	-	-	-	-
2	<input type="checkbox"/> General outpatient consultations for respiratory medicine. May be visiting	-	-	-	-	-	2	2
3	As Level 2: <input type="checkbox"/> General physician with interest in respiratory medicine rostered normal working hours. <input type="checkbox"/> Level 3 General Medicine Service on site.	2	2	-	2	3	3	3
4	As for Level 4 General Medicine plus: <input type="checkbox"/> A comprehensive inpatient and outpatient respiratory service. <input type="checkbox"/> Respiratory specialist rostered normal working hours. <input type="checkbox"/> Inpatient admissions under a respiratory specialist. <input type="checkbox"/> Level 4 General Medicine Service on site.	3	3	-	3	4	4	4
5	As Level 4 plus: <input type="checkbox"/> Has on-site access to Level 5 Cardiology Services <input type="checkbox"/> Specialist respiratory physician, rostered normal working hours and rostered on call after hours. <input type="checkbox"/> Level 5 General Medicine Service on site.	4	4	4	4	5	5	5
6	As Level 5 plus: <input type="checkbox"/> Has a respiratory function laboratory. <input type="checkbox"/> Does not transfer patients for respiratory medicine. <input type="checkbox"/> Level 5 cardiothoracic service on site. <input type="checkbox"/> Level 6 General Medicine Service on site.	4	4	5	5	6	6	5

Facility Name: _____

D13: RHEUMATOLOGY								
Level	Description	Minimum Level of Support						
		Anoes	Theatre	Inter Rad	ICU/HDU	CCU	Path	Pharm
1	<input type="checkbox"/> No Planned Service.	-	-	-	-	-	-	-
2	As Level 1 General Medicine plus: <input type="checkbox"/> General outpatient consultations for rheumatology. May be visiting.	-	-	-	-	-	2	2
3	Level 2 plus: <input type="checkbox"/> General physician with an interest in rheumatology, or specialist rheumatologist available normal working hours. <input type="checkbox"/> Level 3 General Medicine Service on site.	2	2	-	2	3	3	3
4	As for Level 3 plus: <input type="checkbox"/> Provision of a comprehensive inpatient & outpatient rheumatology service. <input type="checkbox"/> Specialist rheumatologist available normal working hours. <input type="checkbox"/> Level 4 General Medicine Service on site.	3	3	-	3	4	4	4
5	As Level 4 plus: <input type="checkbox"/> Level 5 General Medicine Service on site. <input type="checkbox"/> Formal links to level 5 Immunology Service. May be visiting or consultative.	4	4	4	4	5	5	5
6	As Level 5 plus: <input type="checkbox"/> Level 6 General Medicine Service on site. <input type="checkbox"/> Does not transfer patients for rheumatology care.	4	4	5	5	6	6	5

E: Oncology & Haematology Services

Oncology is the branch of medicine that manages the prevention, diagnosis and treatment of cancers. Clinical Haematology is the branch of medicine that manages disorders of the blood including leukemia and lymphoma. The NZ Cancer Control Strategy published in 2003 outlines the commitment of the NZ Government to achieve two key things:

- reduce the incidence and impact of cancer
- reduce inequalities with respect to cancer

The development of a more planned approach to the management of Cancer Services including the development of Cancer Networks across New Zealand has influenced the decision to deliberately separate cancer services from medicine and surgery. This is also consistent with the Queensland Health Clinical Services Capability Framework⁷.

The framework has been adapted from the NSW Role Delineation Model⁸, the Queensland Clinical Services Capability Model and has considered the “The NZ Cancer Control Strategy⁹”.

This grouping includes:

- E1 Medical Oncology
- E2 Radiation Oncology
- E3 Clinical Haematology

⁷ Queensland Health. “Clinical Services Capability Framework” 2004

⁸ NSW Health. “Guide to the Role Delineation of Health Services” Third Edition 2002

⁹ Ministry of Health. “The New Zealand Cancer Control Strategy”. 2003

Facility Name: _____

E1 MEDICAL ONCOLOGY								
Level	Description	Minimum Level of Support						
		Anaes	Op Theatre	Inter Rad	ICU/HDU	CCU	Pathology	Pharmacy
1	<input type="checkbox"/> No Service	-	-	-	-	-	-	-
2	<input type="checkbox"/> Specialist Medical Oncologist or, physician with special interest, providing outpatient service in normal working hours. May be on a visiting.	-	-	-	-	-	2	2
3	As Level 2 plus: <input type="checkbox"/> Chemotherapy administered in a medical day stay facility. <input type="checkbox"/> Is part of a comprehensive cancer service network including medical oncology, radiation oncology, haematology and palliative care provided at other sites. <input type="checkbox"/> Level 3 General Medicine Service on site.	3	3	-	3	-	3	3
4	As Level 3 plus: <input type="checkbox"/> Specialist Medical Oncologist providing service in normal working hours. <input type="checkbox"/> Inpatient beds available for admission under specialist medical oncologist.	3	3	-	4	4	4	4
5	As Level 4 plus: <input type="checkbox"/> Provides most inpatient and outpatient chemotherapy treatment. <input type="checkbox"/> Has on-site access to Pain Clinics & Palliative Care Specialist Support <input type="checkbox"/> Specialist oncologists rostered in extended hours with rostered on-call for after hours.	4	4	4	5	5	5	5
6	As Level 5 plus: <input type="checkbox"/> Provides all forms of inpatient and outpatient chemotherapy. <input type="checkbox"/> Is part of an <u>on-site</u> comprehensive cancer service including radiation oncology, haematology and palliative care. <input type="checkbox"/> Oncology Registrar on site 24 hours. <input type="checkbox"/> Does not transfer patients for medical oncology care.	5	5	4	5	5	6	5

Facility Name: _____

E2 RADIATION ONCOLOGY

Level	Description	Minimum Level of Support							
		Anaes	Op Theatre	Inter Rad	ICU/HDU	CCU	Pathology	Pharmacy	Diag Imag
1	<input type="checkbox"/> No service	-	-	-	-	-	-	-	-
2	<input type="checkbox"/> No service	-	-	-	-	-	-	-	-
3	<input type="checkbox"/> Radiation Oncologist providing outpatient consult service during normal working hours.	-	-	-	-	-	-	-	-
4	<input type="checkbox"/> Level 4 medical oncology service on site. <input type="checkbox"/> Is part of a comprehensive cancer service network including medical oncology, radiation oncology, haematology and palliative care.	3	3	-	4	4	4	4	4
5	As for Level 4 plus <input type="checkbox"/> Has access to full radiation treatment planning and support. <input type="checkbox"/> On site linear accelerator(s). <input type="checkbox"/> Inpatient beds available for admission under specialist radiation oncologist for all forms of complications. <input type="checkbox"/> Radiation oncologists rostered in normal working hours. <input type="checkbox"/> Is part of an on-site comprehensive cancer service including medical oncology, haematology and palliative care.	4	4	4	5	5	5	5	5
6	As for Level 5 plus: <input type="checkbox"/> Full planning and delivery of radiation treatment including system(s) for verifying precision, planning and treatment modalities, <input type="checkbox"/> Formal access to orthovoltage therapy, brachytherapy, stereotactic radiotherapy or unsealed isotope therapy. <input type="checkbox"/> Specialist oncologists rostered extended hours with rostered on-call for after hours. <input type="checkbox"/> Does not transfer patients for radiation oncology care.	5	5	4	5	5	6	5	5

Facility Name: _____

E3. CLINICAL HAEMATOLOGY

Level	Description	Minimum Level of Support							
		Anaes	Op Theatre	Inter Rad	ICU/HDU	CCU	Pathology	Pharmacy	Diag Imag
1	<input type="checkbox"/> No Service	-	-	-	-	-	-	-	
2	<input type="checkbox"/> General outpatient consultations for haematology. May be visiting.	-	-	-	-	-	2	2	2
3	As Level 2 plus: <input type="checkbox"/> Basic haematology treatments administered in a medical day stay facility. <input type="checkbox"/> Specialist Haematologist or physician with special interest providing outpatient service in normal working hours. May be visiting. <input type="checkbox"/> Is part of a comprehensive cancer service network including medical oncology, radiation oncology, haematology and palliative care. <input type="checkbox"/> Level 3 General Medicine Service on site.	3	3	-	3	-	3	3	3
4	As Level 3 plus: <input type="checkbox"/> Specialist Medical Haematologist providing service in normal working hours.	3	3	-	4	4	4	4	4
5	As Level 4 plus: <input type="checkbox"/> Provides outpatient haematology treatment described as less intensive chemotherapy as an outpatient for malignant and non malignant haematological conditions. <input type="checkbox"/> Inpatient beds available for admission under specialist haematologist for all forms of complications. <input type="checkbox"/> Is part of an on-site comprehensive cancer service including medical oncology, radiation oncology, haematology and palliative care. <input type="checkbox"/> Specialist haematologists rostered extended hours with rostered on-call for after hours.	4	4	4	5	5	5	5	5
6	As Level 5 plus: <input type="checkbox"/> Provides all forms of chemotherapy including intensive chemotherapy and bone marrow transplantation for malignant and non malignant haematological conditions. <input type="checkbox"/> Is part of an on-site comprehensive cancer service including medical oncology, radiation oncology, haematology and palliative care. <input type="checkbox"/> Does not transfer patients for clinical haematology care.	5	5	4	6	5	6	5	5

F: Surgery

There are several surgical specialties and sub-specialties that require significant support services to ensure safe care for patients. Surgical services encompass elective and emergency surgery, regardless of where procedures are performed.

Surgical services consist of the following specialties:

- F1 General Surgery
- F2 Cardiothoracic
- F3 ENT/ORLOtorhinolaryngology
- F4 Gynaecology
- F5 Neurosurgery
- F6 Ophthalmology
- F7 Oral Health & Maxillo Facial
- F8 Orthopaedics
- F9 Plastic Surgery(incl Burns)
- F10 Urology
- F11 Vascular Surgery

It is recognised that there are significant metropolitan and provincial networks for the provision of low volume but relatively high risk surgical services including ophthalmology, otorhinolaryngology and urology. The framework used for anaesthetic care is also to describe complexity in surgical services.

Anaesthetic & Surgical Service Capability Matrix

Surgical Complexity	Surgical Anaesthetic Risk (Physical Status)		
	Low	Medium	High
Minor	Level 2	Level 2	Level 2
Intermediate	Level 2	Level 3	Level 4
Complex	Level 3	Level 4	Level 5 to 6

Facility Name: _____

F1. GENERAL SURGERY									
Level	Description	Minimum Level of Support							
		Anaes	Theatre	Inter Rad	ICU/HDU	CCU	Path	Pharm	Diag Imag
1	<input type="checkbox"/> Minor procedures under local anaesthetic only in procedures room. E.g. skin lesion removal <input type="checkbox"/> Provided by a medical officer in normal working hours.	1	1	-	-	-	1	1	1
2	Level 1 plus: <input type="checkbox"/> Outpatient consultations provided by a general surgeon. May be visiting. <input type="checkbox"/> Services provided by General Surgeon available during normal working hours. And/or <input type="checkbox"/> Minor procedures, usually on the periphery, at all levels of anaesthetic risk.	2	2	-	2	-	2	2	2
3	As Level 2 plus: <input type="checkbox"/> Up to intermediate surgery on medium risk patients and some complex surgery on low risk patients. <input type="checkbox"/> General surgeon rostered on site normal working hours and rostered on-call after hours. <input type="checkbox"/> Access to Level 3 orthopaedic and gynaecology services on site. <input type="checkbox"/> Medical Officer or RMO rostered on site 24 hours.	3	3	-	3	3	3	3	3
4	As Level 3 plus: <input type="checkbox"/> Complex surgical procedures on all levels of patient risk performed regularly by Specialist Surgeons. <input type="checkbox"/> Has designated General Surgical Registrars or equivalent on site 24 hours.	4	4	4	4	4	4	4	4
5	As Level 4 plus: <input type="checkbox"/> Full range of complex diagnostic and treatment procedures on all levels of anaesthetic risk performed regularly by sub specialised surgeons. <input type="checkbox"/> Developed general surgical sub-specialties with referral pathways for at least three sub-specialties available. E.g. colorectal, breast.	5	5	5	5	5	5	4	5
6	As Level 5 plus: <input type="checkbox"/> Ability to deal with complex diagnostic and treatment procedures in association with other specialties. <input type="checkbox"/> Has Registrars in surgical subspecialties available for consultation 24 hours. <input type="checkbox"/> Never transfers patients for general surgical care excluding transplant.	5	5	6	6	5	6	5	5

Facility Name: _____

F2. CARDIOTHORACIC SURGERY

		Minimum Level of Support							
Level	Description	Anaes	Theatre	Inter Rad	ICU/HDU	CCU	Path	Pharm	Diag Imag
1	<input type="checkbox"/> No Planned Service	-	-	-	-	-	-	-	-
2	<input type="checkbox"/> No Planned Service	-	-	-	-	-	-	-	-
3	<input type="checkbox"/> No planned service but the General Surgical Service Level 3 or greater may provide cardiothoracic procedures provided.	3	3	-	3	3	3	3	3
4	As Level 3 plus: <input type="checkbox"/> Outpatient consultations by cardiothoracic surgeon during normal working hours. May be visiting. <input type="checkbox"/> Up to intermediate thoracic procedures provided by a Level 4 general surgical service, on patients medium level risk.	4	4	-	4	4	4	4	4
5	As Level 4 plus: <input type="checkbox"/> Thoracic and emergency cardiothoracic procedures (e.g. closed pulmonary embolectomy) provided. <input type="checkbox"/> Works with an on-site Level 5 cancer network including radiation oncology. <input type="checkbox"/> Thoracic/Cardiothoracic Surgeons rostered normal hours.	5	5	5	5	5	5	4	5
6	As Level 5 plus: <input type="checkbox"/> Provides complex diagnostic and treatment procedures e.g. cardiac surgery (e.g. mitral valvotomy) on all levels of patient risk. <input type="checkbox"/> Cardiopulmonary bypass performed regularly by Cardiothoracic Surgeons. <input type="checkbox"/> Provides lung surgery such as lung cancer surgery and lung volume reduction surgery and may undertake lung transplantation. <input type="checkbox"/> Thoracic/Cardiothoracic Surgeons rostered on-call after hours. <input type="checkbox"/> Level 6 Emergency Medicine service on site.	5	5	6	6	5	6	5	5

Facility Name: _____

F3. ENT/ORL - OTORHINOLARYNGOLOGY

Level	Description	Minimum Level of Support							
		Anaes	Theatre	Inter Rad	ICU/HDU	CCU	Path	Pharm	Imag Diag
1	<input type="checkbox"/> No Planned Service	-	-	-	-	-	-	-	
2	Level 2: <input type="checkbox"/> Outpatient consultations by an ENT/ORL Surgeon. May be visiting. And/or <input type="checkbox"/> Minor procedures/diagnostics usually on the peripheral limbs. <input type="checkbox"/> Provided by ENT/ORL surgeon during normal working hours. May be visiting.	2	2	-	2	-	2	2	2
3	As Level 2 plus: <input type="checkbox"/> Up to intermediate ENT/ORL surgical procedures on low or medium risk patients. Excluding neuro-otic or intracranial surgery. <input type="checkbox"/> ENT/ORL surgeon available normal working hours. May be part of a regional service. <input type="checkbox"/> Medical Officer or RMO rostered on site 24 hours.	3	3	-	3	3	3	3	3
4	As Level 3 plus: <input type="checkbox"/> Up to complex surgical procedures on medium risk patients. <input type="checkbox"/> ENT/ORL surgeon available normal working hours and rostered on-call after hours.	4	4	-	4	4	4	4	4
5	As Level 4 plus: <input type="checkbox"/> Complex surgical procedures on all levels of risk. <input type="checkbox"/> Developed ENT/ORL sub-specialties with referral pathways for at least two sub-specialties. <input type="checkbox"/> Has surgical Registrars, or equivalent, on site 24 hours.	5	5	5	5	5	5	4	5
6	As Level 5 plus: <input type="checkbox"/> Ability to deal with complex diagnostic and treatment procedures in association with other specialties including neuro-otic and intracranial procedures. <input type="checkbox"/> Level 6 Neurosurgery is available on site. <input type="checkbox"/> Is part of a comprehensive cancer service network including medical oncology and radiation oncology.	5	5	6	6	5	6	5	5

Facility Name: _____

	<input type="checkbox"/> Never transfers patients for ENT/ORL care								
F4. GYNAECOLOGY									
		Minimum Level of Support							
Level	Description	Anaes	Theatre	Infer Rod	ICU/HDU	CCU	Path	Pharm	Diag Imag
1	<input type="checkbox"/> No Planned Gynaecological Service.	-	-	-	-	-	-	-	-
2	As Level 1 plus: <input type="checkbox"/> Outpatient consultations by a gynaecologist. May be visiting. And/or <input type="checkbox"/> Minor diagnostic and therapeutic gynaecological surgical procedures on low risk patients in an ambulatory setting requiring sedation but not general anaesthetic. <input type="checkbox"/> Performed by Gynaecologists or General Surgeons with post graduate training in gynaecological surgery.	2	2	-	2	-	2	2	2
3	As Level 2 plus: <input type="checkbox"/> Intermediate gynaecological procedures on low or medium risk patients and complex procedures on low risk patients. <input type="checkbox"/> Specialist Gynaecologists rostered in normal working hours with rostered on-call for after hours. <input type="checkbox"/> Medical Officer or RMO rostered on site 24 hours.	3	3	-	3	3	3	3	3
4	As Level 3 plus: <input type="checkbox"/> Up to complex gynaecological procedures on medium risk patients. <input type="checkbox"/> Has designated Gynaecology Registrar or equivalent on site 24 hours.	4	4	-	4	4	4	4	4
5	As Level 4 plus: <input type="checkbox"/> Complex diagnostic and treatment procedures on all risk patients.	5	5	5	5	5	5	4	5
6	As Level 5 plus: <input type="checkbox"/> Able to deal with complex diagnostic and treatment procedures in associations with other specialities. o These will include reproductive endocrinology, infertility and multidisciplinary management of gynaecological malignancy (including chemotherapy and radiotherapy). <input type="checkbox"/> Has an onsite cancer service including medical oncology, radiation oncology, and palliative care	5	5	6	6	5	6	5	5

Facility Name: _____

<input type="checkbox"/> Never transfers for gynaecological care.								
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F5. NEUROSURGERY								
Level	Description	Minimum Level of Support						
		Anaes	Theatre	Inter Rad	ICU/HDU	CCU	Path	Pharm
1	<input type="checkbox"/> No Planned Service	-	-	-	-	-	-	-
2	<input type="checkbox"/> No Planned Service	-	-	-	-	-	-	-
3	<input type="checkbox"/> No planned service but the General Surgical Service Level 3 or greater may provide neurosurgical procedures provided.	3	3	-	3	3	3	3
4	As Level 3 plus: <input type="checkbox"/> Outpatient consultations by a neurosurgeon during normal working hours. <input type="checkbox"/> Minor and intermediate neurosurgical procedures on low or medium risk patients. <input type="checkbox"/> Neurosurgeon available for emergency consultations during normal working hours.	4	4	-	4	4	4	4
5	As Level 4 plus: <input type="checkbox"/> Full range of complex diagnostic and treatment procedures on all levels of patient risk. <input type="checkbox"/> Neurosurgeons rostered on site extended hours and rostered on-call after hours. <input type="checkbox"/> Surgical Registrar on site 24 hours.	5	5	5	5	5	4	5
6	As Level 5 plus: <input type="checkbox"/> Complex neurosurgical procedures e.g.; epilepsy <input type="checkbox"/> Neurosurgical High Dependency and/or Level 5 ICU <input type="checkbox"/> Neurosurgery Registrar on call 24 hours. <input type="checkbox"/> Designated neurosurgical anaesthetists rostered on-call 24 hours <input type="checkbox"/> Never transfers patients for neurosurgical care. <input type="checkbox"/> On site level 6 emergency medicine services.	5	5	6	6	5	6	5

Facility Name: _____

F6. OPHTHALMOLOGY									
Level	Description	Minimum Level of Support							
		Anaes	Theatre	Inter Rad	ICU/HDU	CCU	Path	Pharm	Diag Imag
1	<input type="checkbox"/> No Planned Service	-	-	-	-	-	-	-	
2	Level 2: <input type="checkbox"/> Outpatient consultations by an Ophthalmologist. May be visiting. And/or <input type="checkbox"/> Minor extra ocular diagnostic and treatment ophthalmological procedures on low risk. <input type="checkbox"/> Provided by Ophthalmologists during normal working hours. May be visiting.	2	2	-	2	-	2	1	-
3	As Level 2 plus: <input type="checkbox"/> Intermediate ophthalmology procedures on low or medium risk. <input type="checkbox"/> Ophthalmologist available normal working hours. May be part of regional service. <input type="checkbox"/> Level 3 General Surgical service on site.	3	3	-	3	3	3	3	3
4	As Level 3 plus: <input type="checkbox"/> Complex surgical ophthalmology procedures on low or medium risk patients. <input type="checkbox"/> Ophthalmologist on site normal working hours and rostered on-call after hours. <input type="checkbox"/> Has Surgical Registrars or equivalent on site 24 hours.	4	4	-	4	4	4	4	4
5	As Level 4 plus: <input type="checkbox"/> Complex diagnostic and treatment ophthalmology procedures on all risk patients. <input type="checkbox"/> Designated Ophthalmology Registrar or equivalent on call 24 hours. <input type="checkbox"/> Has an onsite cancer service including medical oncology, radiation oncology, and palliative care.	5	5	5	5	5	5	4	5
6	As Level 5 plus: <input type="checkbox"/> Ability to deal with complex diagnostic and treatment procedures in association with other specialities including neuro-ophthalmology supported by a Level 6 Neurosurgery Service on site. <input type="checkbox"/> Never transfers patients for Ophthalmology care.	5	5	6	6	5	6	5	5

Facility Name: _____

F7. ORAL MAXILLO FACIAL									
Level	Description	Minimum Level of Support							
		Anaes	Theatre	Inter Rad	ICU/HDU	CCU	Path	Pharm	Diag Imag
1	<input type="checkbox"/> No planned service	1	1	-	-	-	1	1	1
2	<input type="checkbox"/> No planned service.	1	1	-	-	-	2	2	2
3	<input type="checkbox"/> No planned service	2	2	-	3	-	3	3	3
4	<input type="checkbox"/> Emergency and specialist oral health care for inpatients. <input type="checkbox"/> Facilities for general anaesthesia for day surgery or longer admission. <input type="checkbox"/> Medical Officer or RMO rostered on site 24 hours.	3	3	-	4	-	4	4	4
5	As Level 4 plus: <input type="checkbox"/> Full range of specialist oral health care available. <ul style="list-style-type: none"> ○ Specialist care includes oral surgery, oral medicine, endodontics, orthodontics, periodontics, paediatric dentistry. <input type="checkbox"/> Inpatients admitted under maxillo-facial surgeon. <input type="checkbox"/> Specialist maxillo-facial surgeons rostered extended hours.	4	4	-	4	5	5	4	5
6	As Level 5 plus: <input type="checkbox"/> Specialist maxilla-facial surgeons rostered on-call after hours. <input type="checkbox"/> Onsite support to a level 6 ORL/ENT Service	5	5	6	6	5	6	5	5

Facility Name: _____

F8. ORTHOPAEDICS								
Level	Description	Minimum Level of Support						
		Anaes	Theatre	Inter Rad	ICU/HDU	CCU	Path	Pharm
1	<input type="checkbox"/> No Planned Service.	-	-	-	-	-	-	-
2	Level 1 plus: <input type="checkbox"/> Outpatient consultations by an Orthopaedic surgeon. May be visiting. And/or <input type="checkbox"/> Minor procedures usually on the periphery requiring sedation but not general anaesthetic. <input type="checkbox"/> Provided by Orthopaedic Surgeon during normal working hours.	2	2	-	2	-	2	2
3	As Level 2 plus: <input type="checkbox"/> Minor and intermediate orthopaedic surgical procedures on low or medium risk patients. <input type="checkbox"/> Orthopaedic surgeon rostered on site normal working hours and rostered on-call after hours. <input type="checkbox"/> Medical Officer or RMO rostered on site 24 hours.	3	3	-	3	3	3	3
4	As Level 3 plus: <input type="checkbox"/> Complex orthopaedic surgical procedures on low or medium risk. <input type="checkbox"/> Has designated Orthopaedic Registrars or equivalent on site 24 hours.	4	4	-	4	4	4	4
5	As Level 4 plus: <input type="checkbox"/> Full range of complex diagnostic and treatment procedures on all risk patients. <input type="checkbox"/> Developed orthopaedic sub-specialties with referral pathways for at least three sub-specialties available for referrals. E.g. hips, knees, spines. <input type="checkbox"/> Has an onsite cancer service including medical oncology, radiation oncology, and palliative care.	5	5	5	5	5	5	5
6	As Level 5 plus: <input type="checkbox"/> Ability to deal with complex diagnostic and treatment procedures in association with other specialties. E.g.; bone tumours. <input type="checkbox"/> Never transfers patients for orthopaedic care. <input type="checkbox"/> On site level 6 emergency medicine services	5	5	6	6	5	6	5

Facility Name: _____

F9. PLASTIC SURGERY								
Level	Description	Minimum Level of Support						
		Anaes	Theatre	Inter Rad	ICU/HDU	CCU	Path	Pharm
1	<input type="checkbox"/> No Planned Service	-	-	-	-	-	-	-
2	<input type="checkbox"/> No Planned Service	-	-	-	-	-	-	-
3	<input type="checkbox"/> Outpatient consultations by plastic surgeon during normal working hours. May be visiting. And/or <input type="checkbox"/> Minor procedures on low or medium risk patients by a plastic or general surgeon. May be visiting. <input type="checkbox"/> Plastic surgical procedures provided by Level 3 General Surgical Service.	2	2	-	-	-	2	2
4	As Level 3 plus: <input type="checkbox"/> Up to intermediate plastic surgery procedures on low or medium risk patients performed. <input type="checkbox"/> Specialist plastic surgeons available normal working hours. <input type="checkbox"/> Has designated Surgical Registrars or equivalent on site 24 hours.	4	4	-	4	4	4	4
5	As Level 4 plus: <input type="checkbox"/> Full range of complex plastic surgical diagnostic and treatment procedures on all levels of patient risk. <input type="checkbox"/> Plastic Surgeons rostered on-site extended hours and rostered on-call after hours. <input type="checkbox"/> Plastics Registrar available working hours.	5	5	5	5	5	5	5
6	As Level 5 plus: <input type="checkbox"/> Ability to deal with complex diagnostic and treatment procedures in association with other specialties. <input type="checkbox"/> Never transfers patients for Plastics Care <input type="checkbox"/> On site Level 6 Emergency Medicine Service	5	5	6	6	5	6	5

Facility Name: _____

F10. UROLOGY								
Level	Description	Minimum Level of Support						
		Anaes	Theatre	Inter Rad	ICU/HDU	CCU	Path	Pharm
1	<input type="checkbox"/> No Planned Service	-	-	-	-	-	-	-
2	Level 2: <input type="checkbox"/> Outpatient consultations by an Urologist. May be visiting. And/or <input type="checkbox"/> Minor procedures/diagnostics usually on the periphery. <input type="checkbox"/> Provided by Urologist during normal working hours. May be visiting.	2	2	-	-	-	2	2
3	As Level 2 plus: <input type="checkbox"/> Minor and intermediate urological procedures on low or medium risk patients. <input type="checkbox"/> Urologist available normal working hours. May be part of a regional service. <input type="checkbox"/> On site level 3 general surgical service.	3	3	-	3	3	3	3
4	As Level 3 plus: <input type="checkbox"/> Complex urological procedures on low or medium risk patients. <input type="checkbox"/> Urologists on site normal working hours and rostered on-call after hours. <input type="checkbox"/> Has surgical Registrars, or equivalent, on site 24 hours.	4	4	-	4	4	4	4
5	As Level 4 plus: <input type="checkbox"/> Complex diagnostic and treatment procedures on all risk patients. <input type="checkbox"/> Developed urological sub-specialties with referral pathways for at least two sub-specialties of Urology available for referrals. <input type="checkbox"/> Has Urology Registrars or equivalent on site 24 hours.	5	5	5	5	5	4	5
6	As Level 5 plus: <input type="checkbox"/> Ability to deal with complex diagnostic and treatment procedures in association with other specialties e.g. bladder reconstruction. <input type="checkbox"/> Has an onsite cancer service including medical oncology, radiation oncology, and palliative care. <input type="checkbox"/> Never transfers patients for Urology care.	5	5	6	6	5	6	5

Facility Name: _____

F11. VASCULAR SURGERY								
Level	Description	Minimum Level of Support						
		Anaes	Theatre	Inter Rad	ICU/HDU	CCU	Path	Pharm
1	<input type="checkbox"/> No Planned Service	-	-	-	-	-	-	-
2	<input type="checkbox"/> No Planned Service	-	-	-	-	-	-	-
3	<input type="checkbox"/> No Planned Service. The level 3 or greater general surgery service may be providing vascular services.	3	3	-	3	3	3	3
4	Level 3 plus: <input type="checkbox"/> Outpatient consultations by vascular surgeon during normal working hours. May be visiting.	4	4	-	4	4	4	4
5	As Level 4 plus: <input type="checkbox"/> Complex diagnostic and treatment procedures on all risk patients including an acute aortic aneurism service. <input type="checkbox"/> Vascular Surgeons rostered normal hours and on-call after hours. <input type="checkbox"/> Vascular Registrars or equivalent on site 24 hours.	5	5	5	5	5	4	5
6	As Level 5 plus: <input type="checkbox"/> Provides highly complex diagnostic and treatment procedures for vascular medicine in association with other specialties. <input type="checkbox"/> On site level 6 Emergency Medicine Service.	5	5	6	6	5	6	5

Facility Name: _____

G: Maternity & Neonatal Services

Maternity services aim to achieve a balance between local access to services and the safe provision of care for both mother and baby. This role delineation model covers the spectrum of emergency care for community based lead maternity care to complex obstetrician led care.

Neonatal resuscitation, stabilisation and examination skills are essential in all maternity services. Neonatal care is an integral component of general paediatrics services. The provision of care by neonatal paediatric specialists occurs only at the most complex levels of care. All units may be involved in the stabilisation of unexpectedly sick babies before they can reach the appropriate level of care. This model is assessing the planned level of care only, not the exceptions.

The framework has been adapted from the NSW Role Delineation Model¹⁰, the Queensland Clinical Services Capability Model¹¹ and has considered “A Review of Neonatal Intensive Care Provision in New Zealand” Report¹².

This grouping includes:

- G1 Maternity/Obstetric Care
- G2 Neonatal Services

¹⁰ NSW Health. “Guide to the Role Delineation of Health Services” Third Edition 2002

¹¹ Queensland Health. “Clinical Services Capability Framework” 2004

¹² Ministry of Health. “A Review of Neonatal Intensive Care Provision in New Zealand “ February 2004

Facility Name: _____

G1: MATERNITY/OBSTETRIC CARE

Level	Description	Minimum Level of Support							
		Anaes	Theatre	Inter Rad	ICU/HDU	CCU	Patholog	Pharmac	Imag Diag
1	<ul style="list-style-type: none"> <input type="checkbox"/> Lead Maternity Care in the home or in community birthing facility and/or midwifery led postnatal care at home or in birthing facility. <input type="checkbox"/> Provided by Lead Maternity Carers recognised under Section 88 	-	-	-	-	-	1	1	-
2	Level 1 plus: <ul style="list-style-type: none"> <input type="checkbox"/> Expected normal delivery and post-natal care including mothers and babies delivered elsewhere returned to domicile with no complications. <input type="checkbox"/> Provides basic resuscitation support and stabilisation in case of emergency. <input type="checkbox"/> Formal links to Level 3 or greater Maternity/Obstetric Unit 	-	-	-	2	-	2	2	-
3	Level 2 plus: <ul style="list-style-type: none"> <input type="checkbox"/> Supports higher risk pregnancies and delivers equal to but no earlier than 34 weeks gestation. <input type="checkbox"/> Elective and emergency caesarean sections, vaginal and assisted deliveries. <input type="checkbox"/> Specialist obstetrician rostered on-site normal working hours with on-call after hours. 	3	3	-	2	-	2	2	3
4	Level 3 plus: <ul style="list-style-type: none"> <input type="checkbox"/> Supports low and medium risk pregnancies and delivers equal to but no earlier than 30 weeks gestation. <input type="checkbox"/> Support from neonatal level 4 and general surgical level 3. <input type="checkbox"/> Obstetric registrars or specialist on site 24 hours. 	4	4	-	3	3	3	3	3
5	Level 4 plus: <ul style="list-style-type: none"> <input type="checkbox"/> Supports high risk pregnancies and delivers equal to but no earlier than, 28 weeks gestation. <input type="checkbox"/> Support from neonatal level 5 and general surgical level 4. <input type="checkbox"/> Anaesthetic Registrar or Specialist available exclusively for obstetrics on site 24 hours. <input type="checkbox"/> General surgery level 5 on-site extended hours with rostered on-call after hours. 	5	5	-	4	3	5	4	4
	Level 5 plus: <ul style="list-style-type: none"> <input type="checkbox"/> Definitive Care Centre for all high-risk pregnancy including, those requiring surgical or medical sub-specialty support. <input type="checkbox"/> On-site access to maternal foetal medicine service. <input type="checkbox"/> Never transfers for maternity care except for neonatal bed access. <input type="checkbox"/> On-site support from level 6 neonatal service 	5	5	-	5	4	6	5	5

Facility Name: _____

G2: NEONATAL SERVICES									
Level	Description	Minimum Level of Support							
		Anaes	Theatre	Inter Rad	ICU/HDU	CCU	Path	Pharm	Imma Diag
1	<input type="checkbox"/> No service.	-	-	-	-	-	-	-	
2	<input type="checkbox"/> As per Maternity L2.	-	-	-	2	-	2	2	
3	Level 2 plus: <ul style="list-style-type: none"> <input type="checkbox"/> Provides neonatal care for the baby no earlier than 34 weeks gestation and support younger babies returning to domicile from higher level units. <input type="checkbox"/> Does not ventilate babies but will provide continuous positive airways pressure (CPAP) <input type="checkbox"/> Able to support cardio respiratory monitoring, IV fluid therapy, tube feeds and phototherapy. <input type="checkbox"/> Specialist paediatrician oversight with SMO, registrar or nurse practitioners on call <input type="checkbox"/> Has planned referral links with Level 5 Unit or greater. 	3	3	-	-	-	2	2	3
4	Level 3 plus: <ul style="list-style-type: none"> <input type="checkbox"/> Provides neonatal care for the baby no earlier than 30 weeks gestation and support younger babies returning to domicile from higher level units. (Level 2 Unit)¹³ <input type="checkbox"/> May provide short term and complex care in consultation with Level 5/6 Neonatal Centre including convalescing medical and surgical patients. <input type="checkbox"/> Specialist paediatrician rostered on-site extended hours and rostered on-call after hours. <input type="checkbox"/> Paediatric registrars or specialist senior nurses on site 24 hours. 	4	4	-	-	-	3	3	3
5	Level 4 plus: <ul style="list-style-type: none"> <input type="checkbox"/> Provides neonatal care for the baby no earlier than 28 weeks gestation. (Level 2+ Unit) <input type="checkbox"/> Supports antenatal foetal management of high risk pregnancies. <input type="checkbox"/> Provides advanced resuscitation support. <input type="checkbox"/> Neonatal paediatric specialists rostered extended working hours and rostered on-call after hours. 	5	5	-	-	-	5	4	4
6	Level 5 plus: <ul style="list-style-type: none"> <input type="checkbox"/> Provides neonatal care including intensive care for the critically ill baby from any gestation. (Level 3 Unit) 	5	5	5	-	-	6	5	5

¹³ Ministry of Health. "A Review of Neonatal Intensive Care Provision in New Zealand." Unit Levels P5

Facility Name: _____

	<ul style="list-style-type: none"><input type="checkbox"/> Neonatal surgery and care for complex congenital and metabolic diseases of the newborn.<input type="checkbox"/> On-site access to intrauterine surgical services.<input type="checkbox"/> On-site Level 6 Paediatric Medicine and Paediatric Surgery.<input type="checkbox"/> Onsite clinical and diagnostic paediatric subspecialty services on-site extended hours and rostered on-call after hours.									
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H: Paediatric Specialty Services (Child Health)

The range of Child Health services provided to communities through District Health Boards is extensive. This model is seeking to delineate core services and focuses on paediatric specialty services.

The extent and focus of these services was extensively explored in the report; “Through the Eyes of a Child, A National Review of Paediatric Specialty Services¹⁴”. With its overarching principle that *children and young people in New Zealand will have their needs treated as paramount*, the review focused on nine subsequent principles which would underlie its recommendations.

That services must be:

- child and family focused;
- as close to home as possible within the bounds of quality and safety;
- provided to achieve equity of outcome;
- based on international best practice, research and education;
- monitored and evaluated regularly;
- integrated with other health services;
- culturally safe; and
- fiscally responsible.

This framework has been adapted from the NSW Role Delineation Model¹⁵, the Queensland Clinical Services Capability Model¹⁶ and has considered the “Through the Eyes of a Child” report. The number of sub-specialties that should be recognized has been considered using this report. The range of sub-specialties continues to develop in paediatrics and the services modelled are those that provide 24 hour acute care for children. They framework assumes critical co-locations

This grouping includes:

- H1 Paediatric Medicine & other Medical Subspecialties
- H2 Paediatric General Surgery
- H3 Paediatric Cardiology & Cardiac Surgery
- H4 Paediatric Oncology & Haematology
- H5 Paediatric Neurology & Neurosurgery
- H6 Paediatric ORL/ENT
- H7 Paediatric Orthopaedics

¹⁴ Paediatric Society of NZ and the Health Funding Authority. “Through the Eyes of A Child, A National Review of Paediatric Specialty Services.” 1998

¹⁵ NSW Health. “Guide to the Role Delineation of Health Services” Third Edition 2002

¹⁶ Queensland Health. “Clinical Services Capability Framework” 2004

Facility Name: _____

H1: PAEDIATRIC MEDICINE & MEDICAL SUBSPECIALTIES

Level	Service Description Checklist	Minimum Level of Support							
		Anaes	Op Theatre	Inter Rad	ICU/HDU	CCU	Pathology	Pharmacy	Diag Imag
1	<ul style="list-style-type: none"> <input type="checkbox"/> Primary and emergency care to children which may include stabilisation for children prior to moving to appropriate higher level of service. <input type="checkbox"/> Provided by rostered general practitioners or medical officers. 	-	-	-	-	-	1	1	1
2	<p>As Level 1 plus:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Paediatrician specialist outpatient consultation in normal business hours, may be visiting. 	1	1	-	-	-	2	2	2
3	<p>As Level 2 plus:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Inpatients may be in a general ward under the care of a general physician. <input type="checkbox"/> Inpatient and outpatient specialist paediatric medical care for all children. <input type="checkbox"/> Specialist paediatricians on site normal business hours. <input type="checkbox"/> Medical Officer rostered on site 24 hours. 	2	2	-	2	-	3	3	3
4	<p>As Level 4 plus:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Designated Paediatric Inpatient Unit. <input type="checkbox"/> Specialist paediatricians' rostered on-call 24 hours. <input type="checkbox"/> Provides integrated hospital inpatient, ambulatory family and child health services, and community health services for most child health needs. 	3	3	-	3	-	4	4	4
5	<p>As Level 4 plus:</p> <ul style="list-style-type: none"> <input type="checkbox"/> On-site access to paediatric general surgical service. <input type="checkbox"/> Paediatric Registrar on site 24 hours. 	4	4	4	4	-	5	5	5
6	<p>As Level 5 plus:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Paediatric medical and surgical sub-specialties available on site provided by paediatric trained specialists. anaesthetics, cardiology & cardiac surgery, oncology & haematology, neurology & neurosurgery, orthopaedics and ORL. <input type="checkbox"/> Clinical and diagnostic services provided by appropriately trained Paediatric Specialists. 	4	4	5	5	-	6	5	5

H2: PAEDIATRIC GENERAL SURGERY

Facility Name: _____

Level	Description	Minimum Level of Support						
		Anaes	Op Theatre	Inter Rad	ICU/HDU	CCU	Pathology	Pharmacy
1	<input type="checkbox"/> No service.	-	-	-	-	-	-	-
2	<input type="checkbox"/> Surgeons providing consultation services to adults and children And/or <input type="checkbox"/> Paediatrician specialist outpatient consultation in normal business hours, may be visiting.	-	-	-	-	-	-	-
3	As Level 2 plus: <input type="checkbox"/> Minor and intermediate complexity elective surgical procedures on low risk children over the age of 1 year. <input type="checkbox"/> Except in emergencies, children under the age of one year are not admitted. <input type="checkbox"/> Performed by General Surgeons. May be a visiting specialist paediatric surgical service. <input type="checkbox"/> Medical officer rostered on site 24 hours.	3	3	-	3	-	3	3
4	As Level 3 plus: <input type="checkbox"/> Intermediate and complex surgical procedures on low and medium risk children over the age of 1 year. <input type="checkbox"/> Designated paediatric inpatient unit. <input type="checkbox"/> Formal consultative links with Level 5 Paediatric Surgical service.	4	4	-	4	-	4	4
5	As Level 4 plus: <input type="checkbox"/> Provides most complex diagnostic and treatment procedures on children with all levels of anaesthetic risk. <input type="checkbox"/> Except in emergencies, children under the age of one month are not admitted. <input type="checkbox"/> Paediatric general surgeons and paediatric anaesthetists rostered on site normal hours and on-call after hours. <input type="checkbox"/> Paediatric Registrar and Surgical Registrar rostered on site 24 hours.	5	5	4	5	-	5	5
6	As Level 5 plus: <input type="checkbox"/> Provides complex diagnostic and treatment procedures on all risk children including on rare complex congenital malformations (frequency of less than 1 in 2,500 births). <input type="checkbox"/> Paediatric medical and surgical sub-specialties available on site: anaesthetics, cardiology & cardiac surgery, oncology & haematology, neurology & neurosurgery, orthopaedics and ORL. <input type="checkbox"/> Clinical and diagnostic services provided by appropriately trained Paediatric Specialists. <input type="checkbox"/> Never transfers for paediatric general surgical care.	5	5	5	6	-	6	5

Facility Name: _____

H3: PAEDIATRIC CARDIOLOGY & CARDIAC SURGERY

		Minimum Level of Support							
Level	Description	Anaes	Op Theatre	Inter Rad	ICU/HDU	CCU	Pathology	Pharmacy	Diag Imag
1	<input type="checkbox"/> No service	-	-	-	-	-	-	-	-
2	<input type="checkbox"/> No service	-	-	-	-	-	-	-	-
3	<input type="checkbox"/> Level 3 Paediatric Medical Service <input type="checkbox"/> Specialist Cardiologist with a Paediatric interest available in normal business hours. May be visiting.	2	2	-	2	-	3	3	3
4	As Level 3 plus: <input type="checkbox"/> Provides cardiology diagnostics including echocardiography for children.	3	3	-	3	-	4	4	4
5	As Level 4 plus: <input type="checkbox"/> Provides complex cardiology services including removal of cardiac biopsies. <input type="checkbox"/> Specialist paediatric cardiologist and cardiac surgeon, rostered normal business hours and rostered on call after hours. <input type="checkbox"/> Provides services to babies less than 1 years of age.	5	5	4	5	-	5	5	5
6	As Level 5 plus: <input type="checkbox"/> Provides the most complex of cardiology services including major cardiac surgery. <input type="checkbox"/> Cardiovascular unit and cardiothoracic surgery on site and available 24 hours. <input type="checkbox"/> Paediatric medical and surgical sub-specialties available on site: anaesthetics, general surgery, oncology & haematology, neurology & neurosurgery, orthopaedics and ORL. <input type="checkbox"/> Provides services to babies less than one month in age. <input type="checkbox"/> On-site access to Paediatric Intensive Care Unit.	5	5	5	6	-	6	5	5

H4: PAEDIATRIC ONCOLOGY & HAEMATOLOGY

		Minimum Level of Support						
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Facility Name: _____

Level	Description	Anaes	Op Theat	Inter Rad	ICU/HDU	CCU	Pathology	Pharmacy	Diag Imag
1	<input type="checkbox"/> No Service.	-	-	-	-	-	-	-	-
2	<input type="checkbox"/> No Service.	-	-	-	-	-	-	-	-
3	<input type="checkbox"/> As per Paediatric Medicine L3.	2	2	-	2	-	3	3	3
4	As for Level 4 Paediatric Medicine plus: <input type="checkbox"/> Specialist Medical Oncologist or Haematologist with paediatric experience in normal business hours. May be visiting. <input type="checkbox"/> Is part of a comprehensive cancer service network including medical oncology, radiation oncology, haematology and palliative care.	3	3	4	3	-	4	4	4
5	As Level 4 plus: <input type="checkbox"/> Supports all forms of chemotherapy for children/adolescents except for bone marrow transplantation <input type="checkbox"/> Inpatient child/adolescent beds available for admission under specialist medical oncologist or haematologist. <input type="checkbox"/> Paediatric haematologists and oncologists rostered in normal business hours. <input type="checkbox"/> Has on-site access to a comprehensive cancer service including medical oncology, radiation oncology, and haematology.	4	4	5	5	-	5	5	5
6	As Level 5 plus: <input type="checkbox"/> Supports all forms of chemotherapy for children and adolescents including intensive chemotherapy and all types of bone marrow transplantation. <input type="checkbox"/> Specialist oncologists & haematologists (with child interest) rostered in extended hours with rostered on-call for after hours. <input type="checkbox"/> Paediatric medical and surgical sub-specialties available on site: anaesthetics, general surgery, cardiology & cardiac surgery, neurology & neurosurgery, orthopaedics and ORL. <input type="checkbox"/> Has on-site access to child/adolescent dedicated palliative care. <input type="checkbox"/> Access to on-site Paediatric Intensive Care Unit.	5	5	5	6	-	6	5	5

Facility Name: _____

H5: PAEDIATRIC NEUROLOGY & NEUROSURGERY

Level	Description	Minimum Level of Support						
		Anaes	Op Theatre	Intr Rad	ICU/HDU	CCU	Pathology	Pharmacy
1	<input type="checkbox"/> No service.	-	-	-	-	-	-	-
2	<input type="checkbox"/> No service.	-	-	-	-	-	-	-
3	<input type="checkbox"/> As per Paediatric Medicine Level 3 <input type="checkbox"/> Provides a neurology outpatient consultation service by a neurologist. May be visiting.	2	2	-	2	-	3	3
4	As Level 3 plus: <input type="checkbox"/> Specialist neurologist available working hours. <input type="checkbox"/> Provides paediatric EMG, nerve conduction, evoked responses and EEG.	3	3	-	3	-	4	4
5	As Level 4 plus: <input type="checkbox"/> Provides a comprehensive neurology outpatient & inpatient neurology service. <input type="checkbox"/> Access to paediatric CT scanning and MRI on a 24 hours basis on site. <input type="checkbox"/> Facilities for inpatient admission under a paediatric neurologist or neurosurgeon. <input type="checkbox"/> Paediatric neurology specialists and neurosurgeons rostered normal business hours. <input type="checkbox"/> Paediatric Registrar and Surgical Registrar rostered on site 24 hours.	5	5	4	5	-	5	4
6	As Level 5: <input type="checkbox"/> Provides complex diagnostic and treatment procedures on all risk children including complex neurosurgery. <input type="checkbox"/> Paediatric medical and surgical sub-specialties available on site: anaesthetics, general surgery, cardiology & cardiac surgery, oncology & haematology, orthopaedics and ORL. <input type="checkbox"/> Paediatric neurosurgeons and paediatric anaesthetists rostered on call 24 hours. <input type="checkbox"/> On-site access to Paediatric Intensive Care Unit.	5	5	5	6	-	6	5

H6: PAEDIATRIC ENT/ORL (Otorhinolaryngology)

Facility Name: _____

Level	Description	Minimum Level of Support						
		Anoes	Op Theatre	Inter Rad	ICU/HDU	CCU	Pathology	Pharmacy
1	<input type="checkbox"/> No service.	-	-	-	-	-	-	-
2	<input type="checkbox"/> No service	-	-	-	-	-	-	-
3	<input type="checkbox"/> Minor and intermediate complexity elective surgical procedures on low risk children over the age of 1 year. <input type="checkbox"/> Except in emergencies, children under the age of one year are not admitted. <input type="checkbox"/> Performed by ENT/ORL surgeon. May be a visiting specialist paediatric service. <input type="checkbox"/> Medical officer or RMO rostered on site 24 hours.	3	3	-	3	-	3	3
4	As Level 3 plus: <input type="checkbox"/> Intermediate and complex surgical procedures on low and medium risk children. <input type="checkbox"/> Designated paediatric inpatient unit. <input type="checkbox"/> Formal consultative links with Level 5 Paediatric ENT/ORL service.	4	4	-	4	-	4	4
5	As Level 4 plus: <input type="checkbox"/> Provides complex diagnostic and treatment procedures on all risk children. <input type="checkbox"/> Paediatric ENT/ORL surgeon and paediatric anaesthetists rostered on site normal working hours and on-call after hours. <input type="checkbox"/> Except in emergencies, children under the age of one month are not admitted. <input type="checkbox"/> Paediatric Registrar and Surgical Registrar rostered on site 24 hours.	5	5	4	5	-	5	4
6	As Level 5 plus: <input type="checkbox"/> Never transfers for paediatric ENT/ORL care. <input type="checkbox"/> Paediatric medical and surgical sub-specialties available on site: anaesthetics, general surgery, cardiology & cardiac surgery, neurology & neurosurgery, orthopaedics and oncology haematology. <input type="checkbox"/> Specialist Paediatric ENT/ORL surgeons and Paediatric Anaesthetists rostered on call 24 hours. <input type="checkbox"/> Onsite access to Paediatric Intensive Care Unit.	5	5	5	5	-	6	5

Facility Name: _____

H7: PAEDIATRIC ORTHOPAEDICS

Level	Description	Minimum Level of Support						
		Anaes	Op Theatre	Inter Rad	ICU/HDU	CCU	Pathology	Pharmacy
1	<input type="checkbox"/> No service.	-	-	-	-	-	-	-
2	<input type="checkbox"/> No service	-	-	-	-	-	-	-
3	<input type="checkbox"/> Minor and intermediate complexity elective surgical procedures on low risk children over the age of 1 year. <input type="checkbox"/> Except in emergencies, children under the age of one year are not admitted. <input type="checkbox"/> Performed by Orthopaedic Surgeon. May be a visiting specialist paediatric service. <input type="checkbox"/> Medical officer or RMO rostered on site 24 hours.	3	3	-	3	-	3	3
4	As Level 3 plus: <input type="checkbox"/> Intermediate and complex surgical procedures on low and medium risk children. <input type="checkbox"/> Designated paediatric inpatient unit. <input type="checkbox"/> Formal consultative links with Level 5 paediatric Orthopaedic service.	4	4	-	4	-	4	4
5	As Level 4 plus: <input type="checkbox"/> Provides most complex diagnostic and treatment procedures on all risk children excluding complex orthopaedic surgery e.g.; scoliosis surgery. <input type="checkbox"/> Paediatric orthopaedic surgeon and paediatric anaesthetists rostered on site normal working hours and on-call after hours. <input type="checkbox"/> Except in emergencies, children under the age of one month are not admitted. <input type="checkbox"/> Paediatric Registrar and Surgical Registrar rostered on site 24 hours.	5	5	4	5	-	5	4
6	As Level 5 plus: <input type="checkbox"/> Never transfers for paediatric orthopaedic care. <input type="checkbox"/> Paediatric medical and surgical sub-specialties available on site: anaesthetics, general surgery, cardiology & cardiac surgery, neurology & neurosurgery, oncology & haematology and ORL. <input type="checkbox"/> Specialist Paediatric Orthopaedic Surgeons and Paediatric Anaesthetists rostered on call 24 hours. <input type="checkbox"/> Onsite access to Paediatric Intensive Care Unit.	5	5	5	5	-	6	5

Facility Name: _____

I: Older Adults

In the development of this model it was identified that Older Adults needed a separate categorisation to recognise the intent of the “Health of Older People Strategy” and to enable the model to more effectively reflect the distribution of services within DHB’s, regions and nationally.

Services for Older Adults covers two areas:

- I1 Health of Older Adults
- I2 Mental Health Services for Older Adults

Facility Name: _____

11. HEALTH OF OLDER ADULTS

Level	Description	Minimum Level of Support							
		Anaes	Theatre	Inter Rad	ICU/HDU	CCU	Path	Pharm	Diag Imag
1	<input type="checkbox"/> Community based support in the home.	-	-	-	-	-	1	1	-
2	As Level 1 plus: <input type="checkbox"/> Community specialist older persons services <input type="checkbox"/> Outpatient consultations by specialist physicians with geriatric interest And/or <input type="checkbox"/> Respite Care and/or Rest Home and/or Private Hospital Care	-	-	-	-	-	1	1	-
3	As Level 2 plus: <input type="checkbox"/> Facilities for inpatient admission under a general physician in a medical ward or specialist ward. <input type="checkbox"/> Specialist Physicians with geriatric interest rostered normal working hours. <input type="checkbox"/> Consultations available from other specialists on referral. May be visiting. <input type="checkbox"/> Medical officers or RMOs available on-site 24 hours.	2	2	-	2	3	3	3	3
4	As Level 3 plus: <input type="checkbox"/> Active assessment and rehabilitation involving inter-disciplinary team providing services to day patients and/or inpatients in a designated inpatient unit. <input type="checkbox"/> Specialist in geriatric medicine rostered normal working hours. <input type="checkbox"/> Consultation and referral links to relevant medical and surgical services.	3	3	-	3	4	4	4	4
5	As Level 4 plus: <input type="checkbox"/> Sub-specialist designated rehabilitation units for older adults which will include designated ortho-geriatrics and stroke units.	4	4	4	4	5	5	5	5
6	As Level 5 plus: <input type="checkbox"/> Frail elderly admissions, including from emergency services department, to inpatient wards. <input type="checkbox"/> Acute inpatients admitted under the inpatient care of specialist geriatricians.	4	4	5	5	6	6	5	5

Facility Name: _____

12. Mental Health Services for Older Adults

Level	Description	Minimum Level of Support							
		Anoes	Op Theatre	Inter Rad	ICU/HDU	CCU	Pathology	Pharmacy	Diag Imog
1	<input type="checkbox"/> Community Mental Health Teams or Older Adults Health Services Teams	-	-	-	-	-	1	1	-
2	As Level 1 plus: <input type="checkbox"/> Designated Mental Health for Older Adults Respite Care And/or <input type="checkbox"/> Rest Home and/or Private Hospital Residential Care	-	-	-	-	-	1	1	-
3	As Level 2 plus: <input type="checkbox"/> Inpatient and Outpatient mental health service for older adults. <input type="checkbox"/> Facilities for inpatient admission under a general physician in a general ward area or ATR Unit. <input type="checkbox"/> Specialist Physicians with geriatric interest rostered normal working hours. <input type="checkbox"/> Psychogeriatrician consultation available normal business hours. <input type="checkbox"/> Has 24 hour access to Medical Officer or RMO rostered on site.	2	2	-	2	3	3	3	3
4	As Level 3 plus: <input type="checkbox"/> Inpatient and outpatient psychogeriatric service with Level 3 or above general medicine service on site. <input type="checkbox"/> Specialist Geriatric or Psychogeriatric Physicians rostered normal working hours.	3	3	-	3	4	4	4	4
5	As Level 4 plus: <input type="checkbox"/> Provides specialised psychogeriatric consultation-liaison services. <input type="checkbox"/> Dedicated psychogeriatric inpatient unit with Level 4 or above general medicine service on site. <input type="checkbox"/> Specialist Geriatric or Psychogeriatric Physicians rostered normal working hours and on-call after hours. <input type="checkbox"/> Psychiatric registrar on call after hours.	4	4	4	4	5	5	5	5
6	As Level 5 <input type="checkbox"/> Admits older adults with acute mental health needs.	4	4	4	4	5	5	5	5