Cardiac Services

Current Service Provision
The continuum of cardiac care includes prevention, screening, diagnosis, acute and ongoing medical care, surgery, rehabilitation and palliative care. SCHHS focus is acute (medical) and rehabilitation care. Services provided are:
- Cardiac medicine services;
- Cardiac (Coronary) Care Unit services;
- Cardiac diagnostic and interventional services; and
- Cardiac rehabilitation services.

From late 2012 percutaneous coronary intervention/angioplasty (PCI), electrophysiology studies (EPS) and implantable cardioverter defibrillator (ICD) insertion has been available at NGH.

Patients requiring coronary bypass grafting and heart valve surgery are referred to TPCH and RBWH. A cardiac surgery outpatient clinic is held weekly at NGH.

NGH – level 5 services including an 8 bed CCU, a 22 bed medical/cardiac specialty ward and outpatient clinics. Cardiac diagnostic and interventional procedures are performed in procedural suites and cardiac investigations unit.

GHS - level 3 service including a close observation care area, outpatient clinics, stress testing and cardiac rehabilitation services.

CHS - level 3 emergency care for cardiac patients in the ED with transfer to the appropriate treatment centre for ongoing management.

Community Based Service
The SCHHS heart failure service offers inpatient and outpatient support, education and discharge follow up by a multidisciplinary team. A level 4 outpatient service (phase 2 cardiac rehabilitation program) is provided in partnership with the University of the Sunshine Coast (USC).

Relative Utilisation
RU is low for the ESRG’s of heart failure and shock (RU 71), coronary bypass (RU 80) and other thoracic surgery (RU 84).

Self Sufficiency
SCHHS facilities were 73% self-sufficient for cardiac services in 09/10.

Historical Activity
Cardiac inpatient separations from SCHHS facilities totalled 5,687 in 10/11, an increase of 32% since 06/07. The highest volume of separations was from the ESRGs of chest pain, non-major arrhythmia and conduction disorders.

In 10/11 52% of SCHHS inpatient cardiac separations were from NGH, with 23% from CHS and 15% from GHS.

A further 1,828 inpatient separations were at Brisbane metropolitan facilities, of which 63% were for the SRG of interventional cardiology.

Outpatient OOS were 6,263 in 10/11, an increase of 52% since 06/07. 78% of these were at NGH.

Service Transition Priorities 2012 - 2016

2012-2014
- Develop partnerships with SCUH to build capacity and increase capability prior to SCUH (public and private services).
- Develop level 4 inpatient cardiac rehabilitation service (Phase 1) at NGH.
- Implement service enhancements to outpatient services at GHS including echo and ECG, improve diagnostic capability and day clinics at GHS and CHS (dependent on accommodation).
- Develop coordinated model of care for cardiac rehabilitation services (Phase 2).
- Expand community based cardiac rehabilitation services to support service expansion.

2014-2016
- Plan for an outreach service model from SCUH for consultation to inpatient and outpatients at NGH.
- Establish a Sunshine Coast and Wide Bay cardiac network including collaboration with the private sector service partners.
- Develop coordinated model of care with Wide Bay HHS focusing on cardiac rehabilitation and outpatient clinics to facilitate reversal of flows from Brisbane.
- Plan for the establishment of cardiothoracic surgery in SCUH 17/18 initially in partnership with TPCH.
- Develop and implement a workforce strategy to support the specialisation of cardiac service and other services as required (eg ICU).

Future Service Configuration

2012-2016
- Greater demand expected for ICU, CCU, admitted and outpatients services due to increasing complexity of interventional cardiology.
- Maintain service configuration and CSCF levels at NGH, GHS and CHS with NGH increasing the outpatient cardiothoracic service.
- Invest in cardiac specialties required for the SCUH opening to ensure skilled staff are available to operate the enhanced service levels.

2016/17

SCUH
- Comprehensive level 6 referral service for SC and Wide-Bay HHSs.
- In 2017/18 SCUH will provide a partial cardiothoracic surgery in partnership with TPCH and potentially the SCUH (if available). A full service will be available from mid 2018.

NGH
- Level 4 service with medical ward, combined CCU/ICU, cardiac rehabilitation, outpatients and a level 3 cardiac diagnostics and interventional service providing non-invasive diagnostic services such as Holter monitoring only.

GHS
- Level 3 service providing emergency, outpatient and inpatient services.

Beyond 2021/22
Services continue at previous configuration.

Projected SCHHS Resident Demand

Future Clinical Service Capability Level

<table>
<thead>
<tr>
<th>Facility</th>
<th>CSCF level</th>
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<tbody>
<tr>
<td>SCUH</td>
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<tr>
<td>Cardiac Medicine</td>
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<tr>
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<td>Cardiac Diagnostic and Interventional Services</td>
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<tr>
<td>Cardiac Surgery</td>
<td>6*</td>
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<tr>
<td>Cardiac Rehabilitation</td>
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<tr>
<td>Cardiac Medicine</td>
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<td>Cardiac Diagnostic and Interventional Services</td>
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</tr>
<tr>
<td>Cardiac Rehabilitation (outpatient)</td>
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</tbody>
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* will not reach level 6 until 2017/18.