

**GOLDEN JUBILEE NATIONAL HOSPITAL
JOB DESCRIPTION**

1. JOB IDENTIFICATION

Job Title: CLINICAL FELLOWSHIP IN CARDIOLOGY –
SCOTTISH ADULT CONGENITAL CARDIAC SERVICE (SACCS)

Department(s): SCOTTISH ADULT CONGENITAL CARDIAC SERVICE (SACCS)

Responsible to: Clinical Director, Heart & Lung Division

2. Introduction

The Golden Jubilee National Hospital (GJNH), has 300 beds with all wards having single or two bedded rooms with ensuite facilities. The estate is one of a high specification with a four star hotel and conference centre as an integral unit alongside the hospital. This has provided a very pleasing and attractive working environment for staff and a desirable patient experience. The main clinical services provided are heart and lung, elective major orthopaedics, general surgery, plastic surgery, diagnostic imaging and endoscopy services.

The GJNH is a state of the art tertiary referral centre on the banks of the River Clyde adjacent to the Erskine Bridge, in close proximity to Glasgow International Airport and within 30 minutes of the centre of Glasgow by road and rail links. A direct overnight sleeper rail service to Euston, London is available at the local station 5 minutes from the hospital. It is effectively situated west of Glasgow City and is minutes away from the countryside of the West of Scotland and Loch Lomond.

Glasgow and the immediate surroundings have a population of around 580,000. It is the largest city in and the commercial capital of Scotland. The city has a vibrant cultural life, with municipal art galleries and museums, first class sports and leisure facilities, a wide range of theatres and restaurants, excellent shopping and is only 45 miles from Edinburgh.

The West of Scotland Heart and Lung Centre

The Centre was created in March 2008 bringing interventional cardiology and specialist surgical heart and lung services previously provided by three different units in the West of Scotland onto the one site under one management team. The interventional cardiology service which includes primary PCI is among the busiest in the UK. The Centre provides one of the primary PCI services in the UK and also the regional electrophysiology service for the West of Scotland. In addition, it is the centre for the Scottish Adult Congenital Cardiac Service (SACCS), the Scottish National Advanced Heart Failure Service (SNAHFS) and the Scottish Pulmonary Vascular Unit (SPVU). With this comprehensive range of specialist cardiopulmonary services for a catchment population of 2.2 million, the GJNH is one of the largest heart and lung centres in Europe.

Management Structure

The NHS National Waiting Times Centre Board is one of eight Special Health Boards of Scotland. It reports directly to the Scottish Government. The hospital has recently undergone a process of organisational change, restructuring of services into two divisions: Elective Specialties and Heart, Lung and Diagnostics.

The Scottish Adult Congenital Cardiac Service

The postholder will join the existing team comprising the Scottish Adult Congenital Cardiac Service, based at the Golden Jubilee National Hospital in Clydebank. The major focus of the appointment will be to support the clinical service.

The Scottish Adult Congenital Service was recognised as a National Service in 2007 with the aim of offering specialist care throughout Scotland to patients over the age of 16 years with congenital heart disease. The service at GJNH is the only centre in Scotland providing the full complement of disciplines required to provide specialist ACHD care. The service has grown substantially since formation with the number of ACHD patients known to SACCS increasing from 1300 to 4500. There have been major improvements in all aspects of care provided to this group of patients in Scotland with the introduction of a contemporary approach to management. This can be recognised by the growth in surgical numbers from less than 40 annually prior to the formation of SACCS to the current level of 90-110 cases per year. Advanced imaging with cardiac CT, MRI and echocardiography together with detailed physiological assessment combines with a core multi-disciplinary approach to achieve a high quality of clinical decision making. The three congenital cardiac surgeons work between the paediatric and adult units provide a comprehensive surgical service and combined working between the paediatric and adult congenital catheter interventional cardiologists allows for complex intervention including percutaneous valve implantation.

The population of Scotland is currently approximately 5.2 million and it is estimated that in 2010, over 15,000 people with a diagnosis of adult congenital heart disease were residing within the country. Whilst many of these individuals will not require the support of a specialist service, it is clear that the service will continue to grow at a rapid rate as access to the service continues to improve. Until the development of SACCS, the care of patients with adult congenital heart disease in Scotland was a largely local and regional issue. Care was fragmented and poorly linked to units with substantial expertise. The east side of the country developed a network of peripheral clinics supported by the Edinburgh Royal Infirmary under the guidance of Dr Jan Burns and Dr Peter Bloomfield providing local links with more specialist care. Aberdeen provided a regional service under the direction of Dr Steve Walton. The development of a National Service has allowed these units to link with the specialist centre in Clydebank improving access to specialist multi-disciplinary assessment and high volume surgery and catheter intervention. With the exception of a small ASD/PFO closure service in Edinburgh, all other congenital surgery and catheter intervention is now performed in Clydebank.

The National Service comprises the following core personnel:

Dr Niki Walker	Consultant Cardiologist (Clinical Lead)
Dr Amanda Hunter	Consultant Cardiologist
Dr Hamish Walker	Consultant Cardiologist
Dr Lorna Swan	Consultant Cardiologist
Dr Gruschen Veldtman	Consultant Cardiologist
Dr John Dreisbach	Consultant Radiologist
Mr Mark Danton	Consultant Surgeon – paediatric / adult
Mr Andrew McLean	Consultant Surgeon – paediatric / adult
Mr Ed Peng	Consultant Surgeon – paediatric / adult
Mrs Sandra Jansz	Clinical Nurse Specialist
Mrs Elaine Muirhead	Clinical Nurse Specialist
Ms Gemma Brown	Clinical Nurse Specialist
Mr David Rodgers	Clinical Nurse Specialist
Ms Lynsey Paton	Clinical Nurse Specialist

Other administrative support includes two WTE secretaries/coordinators, one WTE typist and one WTE data manager responsible for maintaining the national database and co-coordinating the data submissions to NICOR and the pulmonary hypertension national databases.

The three cardiac congenital surgeons provide surgery for both the paediatric patients at Yorkhill and the adult patients at the Golden Jubilee National Hospital. With the exception of congenital cardiac transplantation, all other adult congenital surgical procedures are offered. Valve sparing aortic root surgery is offered and the service has a programme for the care of Marfan patients in the West of Scotland. A ventricular assist device programme has been initiated at the GJNH under the auspices of the Scottish National Advanced Heart Failure Service. Mechanical circulatory support for adult congenital cardiac patients as a bridge to recovery post-cardiotomy forms a component of the service. There are good links between Glasgow and other surgical units such as the Brompton, Barts, St Thomas' and the Freeman in Newcastle.

Cardiac catheter intervention is facilitated by two congenital catheter laboratory sessions each week with general anaesthetic provision. Increasing complexity of intervention and the introduction of newer techniques including percutaneous pulmonary valve implantation combines with an increasing demand for detailed catheter data including combined catheter and MRI diagnostic procedures. Fellows will have the opportunity to participate in the catheter laboratory procedures.

Co-location and close collaboration with the electrophysiology team allows for management of arrhythmias in adult congenital heart disease at the GJNH. Dr Gary Wright and Dr Gareth Padfield lead the congenital aspect of the arrhythmia service. Arrhythmia ablation and complex devices are becoming increasingly important in the management of ACHD patients and are provided by the arrhythmia team.

Facilities for advanced imaging at the GJNH include 5 dedicated sessions on a Siemens Avanto 1.5Tesla MRI scanner supported by fully trained radiography staff. The sessions are led by Dr Hamish Walker, and fellows are encouraged to become actively involved in the programme. Physiological and pharmacological stress MRI is available and interaction with cardiologists providing other aspects of cardiac MRI imaging allows for collaborative working. A GE Optima 1.5Tesla MRI scanner is also installed used for non cardiac imaging

Cardiac CT is provided by a 64 slice GE 750HD Discovery scanner. A large CT coronary angiography service is supported by three cardiologists together with access to cardiac CT when required by SACCS and supported by Dr John Dreisbach. Complex echo is provided for the service including 3D and stress techniques. A comprehensive respiratory laboratory provides cardiopulmonary exercise testing and other cardiac and respiratory assessment tools. This laboratory is supported by the respiratory consultant Dr Martin Johnson.

SACCS independently provides treatment for patients with pulmonary hypertension as a result of congenital heart disease and is funded to prescribe endothelin antagonists and phosphodiesterase inhibitors. In pregnant women, nebulised iloprost is also available to the clinicians. Other targeted therapies are prescribed in conjunction with collaborative working with the Scottish Pulmonary Vascular Unit.

Dedicated inpatient facilities are provided within the NSD pod jointly with the SPVU and SAHFS. Although this 8 bedded unit provides facilities to all three National Services, flexible usage and extension into surrounding cardiothoracic ward space allows for greater numbers of inpatient beds when required. Patients recovering from surgical and catheter procedures are admitted to separate surgical and cardiology ward beds. Admissions to the unit are either from home, outpatient clinic or via transfer from other hospitals. One of the key roles for the fellow is to provide the day to day care for the SACCS inpatients.

Adult congenital cardiac clinics are held as all-day clinics 3 days per week. Each session has 6 booked slots with consultants supporting the sessions. Attendance by junior medical staff

joining the Service as part of their training is mandatory. Non-invasive investigations including ECG, echo, Holter and ambulatory monitoring are located within the clinic as a one stop facility. Dedicated nurse support and phlebotomy are also provided.

A major component of the service is the comprehensive assessment of patients from all over Scotland. Patients attend over a period of days and are offered free accommodation if they live a distance from Clydebank in the adjoining Golden Jubilee Hotel. An individualised series of investigations combines with clinical review so that the patient leaves the unit with a plan for future management including the frequency of their local review and timing for re-attendance to the specialist service. Referrals to the service originate occasionally from primary care but predominantly from other cardiologists, hospital physicians and outreach congenital heart disease clinics. Patients travelling from long distances are offered free accommodation in the adjoining Golden Jubilee Hotel.

Paediatric patients are transitioned to adult service via nurse led transition clinics involving specialist nurses at Royal Children's Hospital with input from consultant paediatric cardiology when needed, and then the SACCS nurse specialists. Medical transfer is from consultant to consultant. Approximately 150-200 patients are transitioned each year to the adult service.

The Queen Elizabeth University Hospital Maternity Unit provides the location for the combined cardiac obstetric clinic, held every two weeks within the antenatal clinic. This busy service has grown substantially in recent years and receives referrals from all over the West of Scotland, and further afield. Two consultant cardiologists from SACCS together with a consultant obstetrician with an interest in cardiac disease attends the clinic. Specialist echo facilities are located within the ante-natal clinic. Currently, approximately 12 patients are seen each clinic. The service provides all aspects of care from pre-conception counselling through to post delivery care. The pre-conception counselling clinics are held as separate clinics by video consultation.

Currently, women with low risk cardiac issues are allowed to deliver within their local obstetric units. Women at moderate to high risk from their cardiac disease are encouraged to deliver at the Queen Elizabeth University Hospital Maternity Unit where there is on site experienced cardiology support. Women at the highest risk from their cardiac disease are offered delivery within the GJNH with full cardiac, obstetric, neonatal and anaesthetic support.

SACCS consultants provide support to local and regional ACHD clinics in Scotland as part of the Clinical Network for congenital heart disease. ACHD clinics are currently held in Edinburgh Royal Infirmary, Aberdeen Royal Infirmary, Borders General Hospital, Ninewells Hospital in Dundee, Victoria Infirmary in Kirkcaldy, Perth Royal Infirmary, Raigmore in Inverness, Glasgow, Ayr, Wishaw, and Forth Valley.

A weekly multi-disciplinary meeting is held at the GJNH on a Friday morning. Attendance by the SACCS and paediatric teams is good and the meeting is extended by videoconference to allow participation by clinicians based further afield or whose clinical duties prevent them from attending in. A second combined electrophysiology and adult congenital cardiac meeting is held on a monthly basis on a Thursday morning to address the growing problem of arrhythmia management in congenital heart disease. The MDM coordinator facilitates the administration of meetings.

Consultant Cardiologists

Dr Niki Walker	Scottish Adult Congenital Cardiac Service (Clinical Lead)
Dr Amanda Hunter	Scottish Adult Congenital Cardiac Service
Dr Hamish Walker	Scottish Adult Congenital Cardiac Service
Dr Lorna Swan	Scottish Adult Congenital Cardiac Service
Dr Gruschen Veldtman	Scottish Adult Congenital Cardiac Service
Prof H Eteiba	Coronary Intervention (Associate Medical Director)
Dr M Lindsay	Coronary Intervention (Clinical Director)
Prof C Berry	Coronary Intervention
Dr A Davie	Coronary Intervention
Dr S Hood	Coronary Intervention
Dr P Rocchiccioli	Coronary Intervention
Dr S Watkins	Coronary Intervention
Dr R Brogan	Coronary Intervention
Dr R Good	Coronary Intervention
Dr D Collison	Coronary Intervention
Dr A Ghattas	Coronary Intervention
Prof D Connelly	Electrophysiology/Device Therapy
Dr G Wright	Electrophysiology/Device Therapy
Dr G Marshall	Electrophysiology/Device Therapy
Dr R Dobson	Electrophysiology/Device Therapy
Dr G Padfield	Electrophysiology/Device Therapy
Dr J Dalzell	Heart Failure
Dr J Cannon	Heart Failure
Dr V Baston	Heart Failure
Prof R Gardner	Heart Failure/ Device therapy
Dr J Adams	Cardiac CT
Dr J Byrne	Cardiac CT
Dr P Sonecki	Echocardiography

Consultant Respiratory Physicians

Dr Martin Johnson	Scottish Pulmonary Vascular Unit (Clinical Lead)
Dr Colin Church	Scottish Pulmonary Vascular Unit
Dr Mel Brewis	Scottish Pulmonary Vascular Unit

Cardiothoracic Department and Surgeons

Thoracic

Mr Alan Kirk
Mr Mo Asif
Mr John Butler
Mr Rocco Bilancia
Mr Nikos Kostoulas
Mr Matthew Thomas

Adult Cardiac

Ms Rashmi Birla
Mr Fraser Sutherland
Mr Stewart Craig
Mr Zahid Mahmood
Mr Kasra Sheikhezai
Prof Nawwar Al Attar

Adult Congenital Cardiac

Mr Mark Danton
Mr Andrew McLean
Mr Ed Peng

Scottish National Heart Failure Service

Mr Simon Messer
Mr Philip Curry
Mr Hari Doshi
Mr Suko Nair

Facilities of the Heart and Lung Centre

- 5 cardiac catheterisation laboratories (one dedicated EP, one biplane, one for pacing)
- 8 cardiothoracic operating theatres

- 21 Intensive Care beds in 2 Units (ICU)
- 2 Cardiothoracic High Dependency Units (HDU)
- Coronary Care Unit (8 beds)
- Cardiology day and in-patient wards
- 2 Cardiothoracic wards
- 8 bedded National Services Division unit includes a dedicated procedure room
- All standard non-invasive cardiological services
- Non-invasive cardiac imaging including: Siemens Avanto fit 1.5T, Siemens Sola 1.5T and Siemens Aera 1.5T CMR scanner – all cardiac capable
- Siemens Amira CMR scanner (not cardiac)
- Siemens CT scanner
- Canon Acquilion One Prism CT scanner
- Echocardiography department
- Respiratory laboratory with full range of pulmonary function testing
- Cardiopulmonary exercise testing
- Outpatient facilities
- Dedicated area for specialist outpatient review
- Links with Glasgow, Strathclyde, Glasgow Caledonian and Stirling Universities

Research, Development and Innovation

Research is a very important component of the activity at the Golden Jubilee National Hospital and is supported by a R&D steering group and dedicated manager. Contract (commercial) research is encouraged and staff use income generated from this source to maintain research support staff such as Clinical Research Fellows and Research Nurses. Academic research is also encouraged and the new appointment will be strongly encouraged to take an active role in this activity. There are established links with all three Glasgow Universities and NHS GG&C under the administrative structure of Glasgow Biomedicine. The appointee will be expected to support local and national collaborative projects that are relevant to his/her activity. The Board is committed to the development of innovative clinical programmes and activity.

The Golden Jubilee Hotel and the integral conference centre attached to the Golden Jubilee is a unique arrangement in the UK and facilitates a variety of local, national and international meetings for the Heart and Lung specialties to share learning in the UK and beyond.

The Research and Development Director is Professor Colin Berry.

Golden Jubilee Research Centre for Health Science

This contains a dedicated Clinical Research Facility which is designed to provide a 'fit for purpose' space for patients recruited to clinical trials. There are four consulting rooms; one is set up for echocardiography and one as an exercise tolerance suite. The remaining two rooms are general consulting rooms. The rest of the centre is made up of prep rooms, simulator training wet lab work stations and a patient waiting area. The Centre is adjacent to the main auditorium of the conference centre providing excellent opportunities to develop teaching techniques and learning. Improved audiovisual links to theatre and the cardiac cath lab are installed as part of this development. The hotel and the integral conference centre attached to the Golden Jubilee Hospital is a unique arrangement in the UK and will enable important national and 'focus' international meetings for the Heart and Lung specialties to share learning in the UK and beyond.

Governance and Risk management

The Board has a comprehensive programme that covers both clinical and research governance domains and all medical staff are expected to uphold clinical and non-clinical policies and be exemplar role models for all other medical and non-medical staff. The importance of infection

control, hand hygiene and dress code must be adhered to at all times.

Patient safety underpins clinical practice and initiatives following the guidance of the SPSP and subsequent programmes apply to all staff.

Junior Medical staff will have annual appraisal and be supported by a Consultant mentor during their period of employment.

The appointee will be accountable to the Associate Medical Director and clinically responsible to the Clinical Lead of SACCS

Junior medical staff and education

Junior staffing in the cardiology department is provided by a resident on-call 1 in 8 rota populated by a combination of research fellows, fellows attached to the advanced heart failure and adult congenital services and 3 CCU Clinical Fellows. The postholder may have to take a share of this rota.

In addition, cardiology trainees in the West of Scotland in year ST4 and above rotate through the CCU and provide middle grade out-of-hours cover. Finally, sub-specialty trainees undertake modular training in the GJNH during their final two years.

The Board is committed to developing a strong educational ethos within the department. There is a forward thinking Department of Education and Learning led by a manager, Mrs Cathy Fox. There are close links with the West of Scotland Deanery and the Faculty of Medicine at Glasgow University. There is an excellent MDT/ educational room for the department which is close proximity to the junior doctors' common room, study rooms with computer workstations and lockers. There is a small library adjacent to the department.

Mr Alan Kirk is the Director of Medical Education of the Board. There will be commitment to the education of undergraduate Medical students from Glasgow University.

Sample Timetable

	Monday	Tuesday	Wednesday	Thursday	Friday
Morning	Ward round	Ward round	Ward round	Ward round	SACCS MDT
Afternoon	Imaging/Echo	MDT preparation/ subspecialist interest	MDT preparation	Audit/ Research	Ward round

On-Call

There may be a requirement to take part in the out of hours cardiology rota (to be discussed)

4. Terms & Conditions of Service

- National terms and conditions of service cover the post.
- The post is subject to pre-employment checks such as Disclosure Scotland, Occupational

Health, Visa clearance (where applicable) and satisfactory references.

- You are required to be registered with the General Medical Council/General Dental Council throughout the duration of your employment and to comply with and abide by the relevant code of professional practice, as appropriate.
- All medical and dental staff employed by the Centre are expected to comply with the agreed health and safety policies.

5. JOB DESCRIPTION AGREEMENT

A separate job description will need to be signed off by each jobholder to whom the job description applies.

Job Holder's Signature:

Date:

Head of Department Signature:

Date:

**Recruitment Person Specification
Clinical Fellow SACCS**

	Essential	Desirable
Qualifications / Training	<ul style="list-style-type: none"> • GMC registration • MBChB or equivalent • MRCP or equivalent 	
Experience	<ul style="list-style-type: none"> • Previous Internal Medicine experience 	<ul style="list-style-type: none"> • General cardiology experience
Skills / Knowledge	<ul style="list-style-type: none"> • Excellent knowledge of written and spoken English • Excellent communication skills 	
Additional job requirements e.g. car driver, unsocial hours	<ul style="list-style-type: none"> • Evidence of completed research / audit projects 	<ul style="list-style-type: none"> • Evidence of completed research projects
Any other additional information		