

# **GOLDEN JUBILEE NATIONAL HOSPITAL**

## **JOB DESCRIPTION:**

### **1. JOB IDENTIFICATION**

**Job Title:** CLINICAL FELLOWSHIP IN ADVANCED HEART FAILURE, CARDIAC TRANSPLANTATION, AND MECHANICAL CIRCULATORY SUPPORT

**Department(s):** SCOTTISH NATIONAL ADVANCED HEART FAILURE SERVICE (SNAHFS)

**Responsible to:** Associate Medical Director for Heart, Lung, Diagnostics

### **2. JOB PURPOSE**

This exciting post offers excellent training in advanced heart failure. The successful applicant will form part of the Scottish National Advanced Heart Failure Service multidisciplinary team responsible for the in-patient and out-patient care of patients with advanced heart failure (AHF), cardiac transplantation (CTx) and mechanical circulatory support (MCS). The post is available from August 2020 for one year in the first instance, with further extensions potentially available depending on satisfactory progress.

### **3. ORGANISATIONAL POSITION**

The post holder will be accountable clinically to Prof Roy Gardner, cardiology lead for SNAHFS, with responsibility to Prof Hany Eteiba, Associate Medical Director.

### **4. SCOPE AND RANGE**

This fellowship offers an excellent opportunity for clinical experience in advanced heart failure (including cardiac transplantation and mechanical circulatory support) and will be for 1 year in the first instance, with the potential to extend dependent on satisfactory progress.

SNAHFS is an integrated part of the West of Scotland Heart and Lung Centre at The Golden Jubilee National Hospital and is home to the national cardiac transplant service and mechanical circulatory support programme (including short-term and long-term MCS). The unit works closely with the local and regional cardiology and cardiac surgery services. This post would be suitable for a range of applicants including Specialty Registrars or trainees at other stages of training wanting subspecialist experience in advanced heart failure. There is also the potential to develop a research project that would lead towards an MD/PhD.

## **5. MAIN DUTIES/RESPONSIBILITIES**

The main responsibilities of the post are mainly, but not exclusively:

### **Clinical**

The job plan consists 1 week in 2 working on the SNAHFS ward, attending twice daily consultant-led ward rounds, performing right heart catheterisations, endomyocardial biopsies and presenting patients at the weekly multi-disciplinary team (MDT) meeting. The week 'off' the ward will involve covering advanced heart failure and post-transplant clinics and can be further tailored to suit the needs of the successful applicant, but could include training in cardiac MRI, complex device therapy, as well as input into the unit's busy research activities.

### **Training**

The post-holder will be trained to perform right heart catheterisation and endomyocardial biopsy. They will become experienced in the assessment of critically ill patients with heart failure, the management of immunosuppression and associated complications, the management of cardiac transplant patients and the management of patients on short and long term MCS. As the cardiologists responsible for SNAHFS also have sub-specialty interests in transplant medicine and MCS, complex devices (implantable cardioverter defibrillators and biventricular pacing), and imaging (cardiovascular magnetic resonance and echocardiography), exposure to these aspects of cardiology will be offered, but this post is primarily aimed at trainees wishing to pursue a sub-specialist interest in heart failure. Additionally, there are a range of other subspecialties practiced in the hospital including electrophysiology, adult congenital heart disease and pulmonary hypertension.

### **Research**

The SNAHFS has strong links with the University of Glasgow. There is an active research programme at the Golden Jubilee National Hospital, with an extensive portfolio of heart failure and device studies. The post-holder will be encouraged and supported to contribute to this.

### **Teaching**

Undergraduates attend throughout their training and the post-holder may be involved in supervision of students and bed-side teaching.

### **Administration**

Administrative duties will include the supervision and counselling of junior staff and planning the organisation of in-patient and out-patient services.

### **Education**

There will be teaching on the daily consultant-led ward round. As well as the SNAHFS and ITU MDT meetings, there are weekly valve, congenital, imaging and surgical MDT meetings, and fortnightly EP/devices meetings. There is a quarterly continued medical education program at the hospital.

There is a well stocked modern cardiology library within the Golden Jubilee National Hospital. Internet access and access to e-learning materials is available to the post-holder in accordance with local policies. There is Wi-Fi throughout the hospital and hotel.

## **6. SYSTEMS AND EQUIPMENT**

Familiarity with hospital IT systems including the newly introduced Clinical Information System.  
Ability to make presentations at departmental meetings – Microsoft PowerPoint.

## **7. DECISIONS AND JUDGEMENTS**

Independent decision making to the level of your experience is encouraged. However, you will always have access to advice and support from one of the consultant cardiologists or transplant surgeons working in SNAHFS.

## **8. COMMUNICATIONS AND RELATIONSHIPS**

The post-holder will be expected to maintain a high level of communication with all grades of medical and allied staff.

## **9. PHYSICAL DEMANDS OF THE JOB**

Routine ward rounds and handovers commence at 0830 daily. Day shift ends 1700. Applicants may be required to take part on a shared night shift on an equal basis (currently a 1 in 8 rota covering Cardiology areas) which starts at 2000 and ends at 0900.

## **10. MOST CHALLENGING/DIFFICULT PARTS OF THE JOB**

Getting the balance between managing critically ill patients appropriately in a high-risk environment and referring problems to senior colleagues. Equally balancing the desire for training and the needs of service provision is challenging.

## **11. KNOWLEDGE, TRAINING AND EXPERIENCE REQUIRED TO DO THE JOB**

All applicants must have full registration with the General Medical Council.

Applicants should have MRCP(UK) or equivalent and have experience in Cardiology.

The post-holder will be required to adhere to all GJNH policies, procedures and regulations.

## **12. TERMS AND CONDITIONS OF SERVICE**

This post is covered by the Terms and Conditions of Service of Hospital and Dental Staff (Scotland).

Salary Scale: As per national rates.

<b>13. JOB DESCRIPTION AGREEMENT</b>	
<b>Job Holder's Signature:</b>	<b>Date:</b>
<b>Print Name:</b>	<b>Date:</b>
<b>Head of Department Signature:</b>	<b>Date:</b>

### Informal enquiries

In the first instance please contact either:

Prof Roy Gardner  
 Consultant Cardiologist  
 Scottish National Advanced Heart Failure Service  
 Golden Jubilee National Hospital  
 Agamemnon Street  
 Clydebank  
 G81 4DY  
 Roy.Gardner@Glasgow.ac.uk  
 0141 951 5861

Dr Jonny Dalzell  
 Consultant Cardiologist  
 Scottish National Advanced Heart Failure Service  
 Golden Jubilee National Hospital  
 Agamemnon Street  
 Clydebank  
 G81 4DY  
[j.dalzell@nhs.net](mailto:j.dalzell@nhs.net)  
 0141 951 5652

Prof Mark Petrie  
 Consultant Cardiologist  
 Scottish National Advanced Heart Failure Service  
 Golden Jubilee National Hospital  
 Agamemnon Street  
 Clydebank  
 G81 4DY  
 Mark.petrie@glasgow.ac.uk  
 0141 951 5652

Dr John Payne  
 Consultant Cardiologist  
 Scottish National Advanced Heart Failure Service  
 Golden Jubilee National Hospital  
 Agamemnon Street  
 Clydebank  
 G81 4DY [jpayne3@nhs.net](mailto:jpayne3@nhs.net)  
 0141 951 5652

**Completed applications to be returned to:**

Recruitment  
Human Resources Department  
Golden Jubilee National Hospital  
Agamemnon Street  
Clydebank  
G81 4DY

## Recruitment Person Specification – advanced heart failure fellow

	Essential	Desirable
Qualifications/Training	<ul style="list-style-type: none"> <li>○ MBChB or equivalent</li> <li>○ MRCP, or equivalent</li> <li>○ GMC registration</li> </ul>	
Experience	General (Internal) Medicine General Cardiology experience	Invasive procedures Evidence of an interest in heart failure
Skills/Knowledge	Excellent knowledge of written and spoken English. Excellent communication skills. Central venous cannulation	Basic Echocardiography
Additional job requirements e.g. car driver, unsocial hours	Evidence of completed research/audit projects.	Commitment to clinical research

# **GOLDEN JUBILEE NATIONAL HOSPITAL**

## **JOB DESCRIPTION:**

### **1. JOB IDENTIFICATION**

<b>Job Title:</b>	<b>CLINICAL FELLOWSHIP IN DEVICE THERAPY AND ADVANCED HEART FAILURE +/- ELECTROPHYSIOLOGY</b>
<b>Department(s):</b>	<b>REGIONAL ADVANCED HEART FAILURE SERVICE AND  SCOTTISH NATIONAL ADVANCED HEART FAILURE SERVICE (SNAHFS) AND  REGIONAL ELECTROPHYSIOLOGY SERVICE</b>
<b>Responsible to:</b>	<b>Associate Medical Director for Heart, Lung and Diagnostics</b>

### **2. JOB PURPOSE**

This exciting post offers excellent training in complex device therapy and either advanced heart failure or clinical cardiac electrophysiology. If the successful applicant wishes to train in advanced heart failure, he/she will form part of the SNAHFS multidisciplinary team responsible for the in-patient and out-patient care of patients with advanced heart failure (AHF), cardiac transplantation (CTx) and mechanical circulatory support (MCS). If the successful candidate wishes to train in electrophysiology, he/she will form part of the regional electrophysiology team responsible for the in-patient and out-patient care of patients with complex arrhythmias. There is close liaison between the heart failure and electrophysiology services, and regardless of the individual's interest the post will involve working collaboratively with both teams. The post is available from August 2020 for one year in the first instance with further extensions potentially available depending on satisfactory progress.

### **3. ORGANISATIONAL POSITION**

The post holder will be accountable clinically to Prof Roy Gardner, Cardiology lead for SNAHFS, and/or Prof Derek Connelly, lead clinician for cardiac electrophysiology, with responsibility to Prof Hany Eteiba, Associate Medical Director.

### **4. SCOPE AND RANGE**

This Fellowship offers an excellent opportunity for clinical experience in complex device therapy (implantable cardioverter-defibrillators (ICDs) and cardiac resynchronisation therapy (CRT) pacemakers and defibrillators) along with either advanced heart failure (including cardiac transplantation and mechanical circulatory support), or clinical cardiac electrophysiology

(including complex ablation procedures for both atrial and ventricular arrhythmias). The post will be for 1 year in the first instance, with the potential to extend dependent on satisfactory progress.

The SNAHFS is an integrated part of the West of Scotland Heart and Lung Centre at The Golden Jubilee National Hospital. This service specialises in the investigation and management of patients with advanced heart failure and includes the single Scottish cardiac transplant service, and mechanical circulatory support (or VAD) programme. The unit works closely with the local and regional cardiology and cardiac surgery services.

The West of Scotland Regional Cardiac Electrophysiology Service performs approximately 500 ablation procedures per year at the Golden Jubilee National Hospital, with arrhythmia clinics in greater Glasgow and Clyde and also in Forth Valley. There is an expanding service in complex ablation for adults with congenital heart disease, and close interaction with the Scottish Adult Congenital Cardiac Service (SACCS) which is based at the GJNH. Ablations are also performed in children with arrhythmias at the Royal Hospital for Children. The electrophysiology service has close links with clinical and preclinical research at the University of Glasgow. This post would be suitable for a range of applicants including Specialist Registrars or Trainees wanting subspecialist experience in device therapy and electrophysiology or advanced heart failure, as well as participating in clinical research.

## **5. MAIN DUTIES/RESPONSIBILITIES**

The main responsibilities of the post are mainly, but not exclusively:

### **Clinical**

For trainees interested in heart failure, the job plan consists 1 week in 2-3 working on the SNAHFS ward, attending twice daily consultant-led ward rounds, performing right heart catheterisations, endomyocardial biopsies, and presenting patients at the weekly multi-disciplinary team (MDT) meeting. The week 'off' the ward can be tailored to suit the needs of the successful applicant but will include training in complex device therapy and input into the unit's busy research activities.

For trainees interested in electrophysiology, the job plan is flexible depending on the interests of the trainee, but can involve 2-3 sessions of device implantation, 3-5 sessions of ablation, one out-patient arrhythmia clinic, and training in pacemaker/ defibrillator lead extraction if desired.

### **Training**

The post-holder will be trained to implant ICDs and CRT. Heart failure trainees will also be trained to perform right heart catheterisation, endomyocardial biopsy and intra-aortic balloon pump insertion. They will become experienced in the assessment of critically ill patients with heart failure, the basic management of immunotherapy and associated complications, the management of cardiac transplant patients and the management of patients with ventricular assist devices. Electrophysiology trainees will receive extensive training in all aspects of catheter ablation (RF and cryo) for atrial and ventricular arrhythmias, involving the use of electro-anatomical mapping systems.

### **Research**

The SNAHFS and the Regional Electrophysiology Service have strong links with the University of Glasgow. There is an active research programme at the Golden Jubilee National Hospital, with an extensive portfolio of heart failure and device studies. The post-holder will be encouraged and supported to contribute to this.



**Teaching**

Undergraduates attend throughout their training and the post-holder may be involved in supervision of students and bed-side teaching.

**Administration**

Administrative duties will include the supervision and counselling of junior staff and planning the organisation of in-patient and out-patient services.

**Education**

There will be teaching on the daily consultant-led ward round. As well as the SNAHFS MDT meeting, there are weekly valve, congenital, imaging and surgical MDT meetings, and fortnightly EP/devices meetings. There are also monthly MDT meetings between the electrophysiology team and the Scottish Adult Congenital Cardiac Service to discuss arrhythmia issues in these patients. There is a quarterly continued medical education program at the hospital.

There is a well stocked modern cardiology library within the Golden Jubilee National Hospital. Internet access and access to e-learning materials is available to the post-holder in accordance with local policies.

**6. SYSTEMS AND EQUIPMENT**

Familiarity with hospital IT systems including the newly-introduced Clinical Information System. Ability to make presentations at departmental meetings – Microsoft PowerPoint.

**7. DECISIONS AND JUDGEMENTS**

Independent decision making to the level of your experience is encouraged. However, you will always have access to advice and support from one of the consultant cardiologists.

**8. COMMUNICATIONS AND RELATIONSHIPS**

The post-holder will be expected to maintain a high level of communication with all grades of medical and allied staff.

**9. PHYSICAL DEMANDS OF THE JOB**

For device implants and ablations, patients are admitted and assessed between 8am and 9am, with lists commencing at 9am. Routine heart failure ward rounds and handovers commence at 0830 daily. Day shift ends 1700. Applicants may be required to take part on a shared night shift on an equal basis (currently a 1 in 8 rota covering Cardiology areas) which starts at 2000 and ends at 0900, although this is negotiable.

**10. MOST CHALLENGING/DIFFICULT PARTS OF THE JOB**

Getting the balance between managing critically ill patients appropriately in a high-risk environment and referring problems to senior colleagues. Equally balancing the desire for training and the needs of service provision is challenging.

## **11. KNOWLEDGE, TRAINING AND EXPERIENCE REQUIRED TO DO THE JOB**

All applicants must have full registration with the General Medical Council.

Applicants should have MRCP(UK) or equivalent and have significant experience in Cardiology and device implantation.

The post-holder will be required to adhere to all GJNH policies, procedures and regulations.

## **12. TERMS AND CONDITIONS OF SERVICE**

This post is covered by the Terms and Conditions of Service of Hospital and Dental Staff (Scotland).

Salary Scale: As per national rates.

## **13. JOB DESCRIPTION AGREEMENT**

**Job Holder's Signature:**

**Date:**

**Print Name:**

**Date:**

**Head of Department Signature:**

**Date:**

### **Informal enquiries**

In the first instance please contact either:

Prof Roy Gardner  
Consultant Cardiologist (Clinical lead – heart failure)  
Scottish National Advanced Heart Failure Service  
Golden Jubilee National Hospital  
Agamemnon Street  
Clydebank  
G81 4DY  
Roy.Gardner@Glasgow.ac.uk  
0141 951 5861

Prof Derek Connelly (Clinical lead – EP/devices)  
Consultant Cardiologist  
Golden Jubilee National Hospital  
Agamemnon Street  
Clydebank  
G81 4DY  
Derek.connelly@nhs.net  
0141 951 5861

**Completed applications to be returned to:**

Recruitment  
Human Resources Department  
Golden Jubilee National Hospital  
Agamemnon Street  
Clydebank  
G81 4DY

## Recruitment Person Specification – device fellowship with Advanced heart failure and / or Electrophysiology

	Essential	Desirable
Qualifications/Training	<ul style="list-style-type: none"> <li>○ MBChB or equivalent</li> <li>○ MRCP or equivalent</li> <li>○ GMC registration</li> </ul>	
Experience	General (Internal) Medicine General Cardiology experience First operator skills in pacemaker implantation	Invasive procedures CRT implant experience
Skills/Knowledge	Excellent knowledge of written and spoken English. Excellent communication skills.	Basic Echocardiography
Additional job requirements e.g. car driver, unsocial hours	Evidence of completed research/audit projects.	Commitment for clinical research
Any other additional information		

# **GOLDEN JUBILEE NATIONAL HOSPITAL**

## **JOB DESCRIPTION:**

### **JOB IDENTIFICATION**

<b>Job Title:</b>	<b>CLINICAL FELLOW – Intervention and Imaging</b>
<b>Department(s):</b>	<b>CARDIOLOGY</b>
<b>Responsible to:</b>	<b>Associate Medical Director – Heart, Lung and Diagnostics</b>

### **4. JOB PURPOSE**

These posts will form part of the medical team responsible for the in-patient cardiology beds in the West of Scotland Regional Heart & Lung Centre. These posts are available from August 2020 for 12 months in the first instance with further annual extensions available depending on satisfactory progress.

### **5. ORGANISATIONAL POSITION**

The post holders will be responsible clinically to Dr H Eteiba, Associate Medical Director.

### **3. SCOPE AND RANGE**

The West of Scotland Heart and Lung Centre opened at the Golden Jubilee National Hospital in summer 2008. It provides cardiothoracic surgery, interventional cardiology, electrophysiology and complex cardiac device services for most of the West of Scotland. As part of this development the hospital became a heart attack centre and offers primary PCI on a 24/7 basis to a catchment population of 1.6M. The GJNH is now the second largest volume PCI centre in the UK. The Heart and Lung Centre also houses the National Services for Advanced Heart Failure including cardiac transplantation (SNAHFS), Adult Congenital Cardiac Disease (SACCS) and Pulmonary Vascular Disease (SPVU).

The Cardiology Unit has 4 modern cardiac catheterisation labs (including EP) and a device theatre. There is a 16 bay day unit attached to the cardiac catheterisation suite, an 8-bed coronary care unit and a 14-bed cardiology ward on Level 2. Additional beds, including those assigned to the National Services are situated on Level 3. There is full range of non-invasive facilities including echo, TOE, Cardiac-MRI and CT scanning.

### **4. MAIN DUTIES/RESPONSIBILITIES**

The main responsibilities of the post are mainly, but not exclusively:

#### **Clinical**

Part of the team responsible for all of the in-patient cardiology beds in the West of Scotland Regional Heart & Lung Centre including the regional 24/7 primary PCI service for patients with STEMI. He/she will also

participate in a 1 in 8 resident on-call rota. The overnight component is split into blocks of 4x12hour shifts (Mon-Thurs) and 3x12 hour shifts (Fri-Sun). When covering night hours there is no requirement to work through the day, including weekends. Dependant on experience there will be the opportunity to be exposed to primary and rescue emergency PCI procedures within the cath lab.

The 12-hour cover for daytime weekdays for CCU, the five-day cardiology wards 2C/2D and day unit is provided on rotation with the other clinical fellows (1:3) and in combination with a rotating specialist trainee. When not required for ward duties/cover there is ample time and opportunity to pursue specific aspects of cardiology training e.g. echo, cardiac CT, cardiac MRI, research/audit, cardiac catheterisation and invasive electrophysiology.

### **Training**

There will be opportunities for training in all aspects of general cardiology and exposure to the following sub-specialties: coronary and/or intensive care, interventional cardiology, electrophysiology, device implantation, heart failure, adult congenital cardiac disease, imaging (echo, CT, MRI).

### **Research**

The Golden Jubilee National Hospital has strong links with the University of Glasgow. There is an active research programme in a number of therapeutic, diagnostic and basic science fields. The postholder will be encouraged and supported to develop an individual research project consistent with the existing interests of the department and suitable, if appropriate, for submission for a higher degree. The postholder will also be expected to participate in ongoing audit and research activities within the Cardiology department.

### **Teaching**

Undergraduates attend throughout their training and the postholder may be involved in supervision of students and bed-side teaching.

### **Administration**

The administrative duties include the supervision and counselling of junior staff and planning the organisation of in-patient and out-patient services. You will be required to ensure the accuracy and completion of both written and electronic medical records in line with hospital policy.

### **Education**

There is an education half-day held once per month in the Cardiology Unit. There are weekly multidisciplinary meetings for the interventional / surgical teams, the heart failure team and the adult congenital heart disease team. Participation in these meetings will be expected as appropriate.

There is a well stocked modern cardiology library within the Golden Jubilee National Hospital. Internet access and access to e-learning materials is available to the postholder in accordance with local policies.

## **5. SYSTEMS AND EQUIPMENT**

Familiarity with hospital IT systems including the newly-introduced Clinical Information System.

Ability to make presentations at departmental meetings – Microsoft PowerPoint.

## **6. DECISIONS AND JUDGEMENTS**

Independent decision making to the level of your experience is encouraged. However, you will always have access to advice and support from a Specialist Trainee in Cardiology (years 3-6) who in turn can call on consultants in both interventional and non-invasive cardiology.

## **7. COMMUNICATIONS AND RELATIONSHIPS**

The postholder will be expected to maintain a high level of communication with all grades of medical and allied staff. They will be supported in their role by Cardiology Speciality Trainees and by the Consultant Staff.

## **8. PHYSICAL DEMANDS OF THE JOB**

Routine ward rounds and handovers commence at 0800 daily. Day shift ends variably between 1800 and 2200. All applicants are expected to take part on a shared night shift on an equal basis which starts at 2000 and ends at 0900.

## **9. MOST CHALLENGING/DIFFICULT PARTS OF THE JOB**

Getting the balance between managing critically ill patients appropriately in a high risk environment and referring problems to senior colleagues. Equally balancing the desire for training and the needs of service provision is challenging.

## **10. KNOWLEDGE, TRAINING AND EXPERIENCE REQUIRED TO DO THE JOB**

All applicants must have full registration with the General Medical Council.

Applicants should have MRCP(UK) or equivalent and experience in Cardiology is desirable.

The post holder will be required to adhere to all GJNH policies, procedures and regulations.

## **11. TERMS AND CONDITIONS OF SERVICE**

This post is covered by the Terms and Conditions of Service of Hospital and Dental Staff (Scotland).

Salary Scale: As per national rates.

<b>12. JOB DESCRIPTION AGREEMENT</b>	
<b>Job Holder's Signature:</b>	<b>Date:</b>
<b>Print Name:</b>	<b>Date:</b>
<b>Head of Department Signature:</b>	<b>Date:</b>

**Informal enquiries**

In the first instance please contact:

Dr Mitchell Lindsay  
 Consultant Cardiologist  
 Department of Cardiology  
 West of Scotland Heart & Lung Centre  
 Golden Jubilee National Hospital via switchboard  
 Tel 0141 951 5431

**Completed applications to be returned to:**

Recruitment  
 Human Resources Department  
 Golden Jubilee National Hospital  
 Agamemnon Street  
 Clydebank  
 G81 4DY



## Recruitment Person Specification

The aim of this form is to record the criteria applicants need to meet to qualify for appointment to the vacant post. It must be completed before the recruitment process begins and must reflect the job description for the post.

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

**GOLDEN JUBILEE NATIONAL HOSPITAL  
JOB DESCRIPTION**

**6. JOB IDENTIFICATION**

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

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

**Responsible to:** ASSOCIATE MEDICAL DIRECTOR - HEART, LUNG AND DIAGNOSTICS

**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 remains 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 116 cases in 2012/2013. 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 working 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 pulmonary 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 - Locum
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
Mr Jim Mearns	Clinical Nurse Specialist

Mrs Sandra Jansz	Clinical Nurse Specialist
Mrs Elaine Muirhead	Clinical Nurse Specialist
Mrs Maggie Simpson	Clinical Nurse Specialist
Ms Gemma Brown	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 Fontan revision surgery and 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 cardiectomy forms a component of the service. There are good links between Glasgow and other surgical units such as Southampton and 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 leads 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 Giana Wong, 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. 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.

The weekly adult congenital cardiac clinic is held as an all-day clinic. Each session has 12 booked slots with 2 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 Beardmore 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 Beardmore Hotel.

Paediatric patients are transitioned to adult service via a monthly transition clinic which is held at Royal Children's Hospital with input from consultant paediatric cardiology when needed. The youngest patients are 14 years with an intention to transition all paediatric patients by the age of 18 years. Echo and ECG facilities are provided within the cardiology department. Approximately 150 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. A consultant cardiologist 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.

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, Forth Valley and Dumfries.

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 person. 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 N Walker	Scottish Adult Congenital Cardiac Service/ACHD Intervention
Dr H Eteiba	Coronary Intervention (Associate Medical Director)
Prof. KG Oldroyd	Coronary Intervention
Dr M Lindsay	Coronary Intervention
Dr M McEntegart	Coronary Intervention
Prof C Berry	Coronary Intervention
Dr A Davie	Coronary Intervention
Dr S Hood	Coronary Intervention
Dr P Rocciccioli	Coronary Intervention
Dr S Watkins	Coronary Intervention
Dr R Good	Coronary Intervention
Dr DT Connelly	Electrophysiology/Device Therapy
Dr G Wright	Electrophysiology/Device Therapy
Dr G Marshall	Electrophysiology/Device Therapy
Dr R Myles	Electrophysiology
Dr G Padfield	Electrophysiology
Prof RS Gardner	Heart failure/ Device therapy
Prof MC Petrie	Heart Failure
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

<b>Thoracic</b>	<b>Adult Cardiac</b>	<b>Adult Congenital Cardiac</b>
Mr Alan Kirk	Mr Vivek Pathi	Mr Mark Danton

Mr Mo Asif	Mr Fraser Sutherland	Mr Andrew McLean
Mr John Butler (also cardiac)	Mr Stewart Craig	Mr Ed Peng
Mr Rocco Bilancia	Mr Zahid Mahmood	
Mr Nikos Kostoulas	Mr Kasra Sheikhrezai	

### **Scottish National Heart Failure Service**

Prof Nawwar Al Attar (Clinical Lead of Scottish National Heart Failure Service)

Mr Philip Curry

Mr Hari Doshi

Mr Suko Nair

### **Facilities of the Heart and Lung Centre**

- 4 cardiac catheterisation laboratories (one dedicated EP, one biplane, pressure wire, IVUS, rotablation)
- 8 cardiothoracic operating theatres (one for pacing)
- 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 which includes a dedicated procedures room for haemodynamic assessments and myocardial biopsy
- All standard non-invasive cardiological services
- Non-invasive cardiac imaging including:
- Siemens Avanto 1.5T CMR scanner
- GE Optima 1.5T MRI GE 750HD Discovery CT scanner
- Echocardiography department
- Respiratory laboratory
- Cardiopulmonary exercise testing
- Full range of pulmonary function testing
- Outpatient facilities
- Excellent well appointed dedicated area for specialist outpatient review
- Links with Glasgow, Strathclyde, 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.

#### **Provisional Timetable**

	<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>	<b>Friday</b>
<b>Morning</b>	Ward round	Ward round Echo / Cath lab	Ward round MRI	Ward round SACCS clinic	Ward round SACCS MDT
<b>Afternoon</b>	Echo	Echo / Cath lab	MRI / Ward work	SACCS clinic	Ward work/CPD/Audit

#### **On-Call**

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

#### **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 through out 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"> <li>○ MBChB or equivalent</li> <li>○ MRCP or equivalent</li> </ul>	
Experience	Previous Internal Medicine experience	General cardiology experience
Skills/Knowledge	Excellent knowledge of written and spoken English. Excellent communication skills.	
Additional job requirements e.g. car driver, unsocial hours	Evidence of completed research/audit projects.	Evidence of completed research projects
Any other additional information		