SOUTHAMPTON UNIVERSITY HOSPITALS NHS TRUST

CONGENITAL CARDIAC CENTRE

SPECIALIST REGISTRAR IN ADULT CONGENITAL HEART DISEASE

Health Education Wessex is responsible for the planning, development, education and training of the healthcare and public health workforce across Hampshire, Dorset, Isle of Wight and Salisbury. We also provide medical training for the States of Jersey and GP appraisal services for Jersey and Guernsey. We believe that the key to improving the health and healthcare of the 2.8 million people living in Wessex is investment in the skills and values of the 52,000 people working in the NHS and in primary care.

Within the field of postgraduate medical education and training, we manage across primary and secondary care for these health communities – totalling around 2,400 doctors in training at any one time across 12 Trusts and 160 GP practices. In addition, we support the workforce development for GP Practice Nurses and Public Health practitioners as well managing a bespoke GP appraisal service for established GP Practitioners to meet the requirements for revalidation in accordance with the statutory requirements set by the General Medical Council.

We manage training programmes for postgraduate medical training according to the statutory standards set by the General Medical Council (GMC) and have responsibility for establishing and maintaining quality management systems for all posts and programmes as required by the GMC.

The work of the Deanery is guided by the principles embedded within the NHS constitution.
CONGENITAL CARDIAC CENTRE

The Southampton University Hospitals Paediatric and Adult Congenital Heart Disease Unit currently serves a population of approximately 2.9 million people living in the counties of Hampshire, Dorset, Wiltshire, West Sussex, Cornwall, Devon, Somerset, the Channel Isles and the Isle of Wight. Government figures project a considerable increase in population of this region in the next decade. British forces families stationed abroad are also referred to the unit. Occasionally patients with complex congenital conditions are referred from even further afield including Scotland and Ireland.

Integrated cardiac and cardiac surgical services are provided for all age groups and the centre is recognised for training in Paediatric Cardiology, Adult Congenital Heart Disease and Paediatric Cardiac Surgery. It is one of the major centres for fetal, paediatric and adult congenital heart disease. Congenital heart disease surgery has been undertaken in Southampton for more than 35 years and there are consequently large numbers of adult patients with congenital lesions undergoing follow-up.

Southampton is a modern city on the South Coast of England with extensive cultural, recreational and sporting facilities. The New Forest, South Coast beaches and several internationally famous sailing centres are within easy reach of the hospital. There are surrounding picturesque villages and local housing and schools are superb making Southampton a highly desirable place to live and work. There are excellent road and rail links to London (just over 1 hour), an international airport with flights to Europe and other parts of the United Kingdom and fast sea crossings to France from nearby ports.

FACILITIES

In patients

The cardiac unit is an integrated facility situated on D and E level of the Southampton General Hospital and comprises 105 adult cardiology/cardiac surgical beds and a separate modernised children’s ward comprising 16 paediatric cardiology beds/cots in a newly refurbished ward. There is also a 12 bedded short stay/day unit. Thoracic surgery is served by 20 ward beds and 6 high care beds.
There is currently an area within adult cardiology on E4 ward for young adult patients with congenital heart disorders. It is planned to establish a new young adult area adjacent to the paediatric cardiac unit and Heartbeat has agreed to support this development. This will result in patients of all ages with congenital heart disease being in adjacent areas further developing the theme of ‘integrated care’.

**Intensive Care**

There is a 16 bedded dedicated adult cardiothoracic intensive care unit. The paediatric cardiac patients are cared for in a purpose-built 12 bedded ‘level 3’ paediatric intensive care unit. On average five of these are used for paediatric cardiology and cardiac surgery but this number can be increased according to demand. There are separate high care facilities for adult medical cardiology, adult cardiac surgery, coronary care and paediatric cardiology. There are five Adult Cardiology High Care beds and a 10 bed Coronary Care Unit within which patients with unstable coronary syndromes, arrhythmias and acute decompensated heart failure are managed. A further 10 bedded Fast Track Area accommodates routine postoperative patients which includes three beds for short-term ventilation. The Adult General Intensive Care, Cardiothoracic Intensive Care, Paediatric Intensive Care, Cardiac Surgical High Care, Cardiology High Care and Coronary Care lie in close proximity to each other.

There are two houses adjacent to the hospital named “Rotary Heartbeat House”, where relatives of cardiothoracic unit in-patients can stay. This facility has been provided by the Wessex Charity “Heartbeat” which works to support the activities of the cardiac unit.

**Investigations**

There is purpose built Non-Invasive Cardiac Unit with facilities for transthoracic and transoesophageal echo, exercise testing, ambulatory ECG, blood pressure monitoring, transtelephonic ECG, tilt testing, pacemaker and implantable defibrillator programming. The congenital heart disease service has several modern cardiac ultrasound machines including tissue Doppler and state of the art 3D echo facilities.
Two of the echo rooms are designed and equipped for trans-oesophageal echocardiography. Per-operative TOE is available as required. All echo studies are digitally archived.

There are four modern, fully equipped, digital cardiac catheterisation rooms, one with biplane imaging, with quantitative angiography, intravascular ultrasound and Doppler pressure and flow wire facilities. Images are stored on a networked digital archive. Congenital cardiac catheterisation takes place on most days of the week. A predominantly electrophysiological laboratory is equipped with a BARD Duolab recording system, together with the Endocardial Solutions™ (ESI) and Biosense CARTO™ mapping technologies. The catheter labs are situated in close proximity to the dedicated cardiothoracic operating theatres.

Cardiothoracic Radiology is integrated within the unit in close proximity to the non-invasive facilities and to the catheter laboratories, with dedicated Cardiac Magnetic Resonance Imaging and access to helical CT (two scanners). There are 4 consultant cardiothoracic radiologists providing a cardiothoracic on-call service.

The Department of Nuclear Medicine is adjacent to the cardiac unit and provides the full range of nuclear cardiology.

A close relationship exists between the Cardiothoracic Unit and the support services, in particular Nuclear Medicine, Microbiology and Cardiac Pathology.

**Operating Theatres**

There are four cardiothoracic operating theatres for both adult and paediatric patients.

**Out patients**

There is a dedicated Adult Cardiac Outpatients Department with onsite echocardiographic facilities. The adult congenital heart disease clinics take place in this area. The paediatric cardiology and paediatric cardiac surgical clinics are held in
the adjacent dedicated Children’s Outpatients department where early transition clinics take place for the younger age groups prior to transitioning to the adult area.

Support Specialties

Southampton general hospital is a fully functional Regional/Supra-regional University centre for both paediatric and adult medicine. Close liaison exists with adult cardiology, cardiac surgery, paediatrics (including the numerous regional specialist services) and with the general medical subspecialities. Regular joint educational meetings are held with the adult cardiologists, cardiac surgeons and paediatricians, geneticists and cardiac pathologists.

Fetal medicine with fetal cardiology, obstetrics and gynaecology, genetics and neonatology are located in the adjacent Princess Anne Hospital. There is a monthly multidisciplinary cardiac obstetric clinic with joint care of pregnant patients on both sites.

There is a full range of adult medical and surgical specialties in this major university teaching hospital.

Nursing support and liaison

There are two Adult Congenital Heart Disease Liaison Nurses, one pulmonary hypertension nurse specialist and two Paediatric Cardiac Nurse Specialists. There are two EP Specialist Nurses who are involved with congenital patients of all ages with arrhythmias.

Research

The cardiothoracic unit encourages and promotes research activity within the department. Increasingly members of the Directorate are forming links with the Research Divisions of the Southampton University School of Medicine. Over 100
Publications in peer reviewed international journals have been published by members of the cardiothoracic unit in the last 2 years. A copy of the Cardiothoracic Centre Research Portfolio is available for inspection.

On the Southampton University Hospital site, there is an extensive range of research facilities including the Medical Research Council and Wellcome Research Units. Of particular note are the research departments of the fetal origins of cardiac disease under Professor Mark Hanson (BHF professor of cardiovascular science) and Professor David Barker and the genetic research laboratory headed by Professor David Wilson who has a special interest in the genetics of congenital heart disease. Professor William Rosenberg heads the Wellcome Clinical Research Facility that has inpatient beds and outpatient facilities for clinical research.

It is hoped that with the continuing expansion of the Southampton University School of Medicine, there will be an opportunity in the future to make full-time academic appointments to support the unit’s clinical and basic science interests.

**Activity of the Unit**

**Clinics:***

- Paediatric Congenital Heart Disease Clinics (Southampton) 300
- Paediatric Congenital Heart Disease (13 Peripheral hospitals) clinics 175
- Adult Congenital Heart Disease Clinics (Southampton) 300
- Adult Congenital Heart Disease Clinics (Peripheral hospitals) 12
- Total attendances at SGH clinics 5000
- Total Peripheral Clinic attendances 1700
Non Invasive Investigations - congenital heart disease
(excludes outlying clinic work)

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Count</th>
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<tbody>
<tr>
<td>Echocardiograms</td>
<td></td>
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<tr>
<td>Transthoracic</td>
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<tr>
<td>Transoesophageal</td>
<td>300</td>
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<tr>
<td>Fetal</td>
<td>400</td>
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<tr>
<td>Exercise Tests</td>
<td>400</td>
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<td>Tilt Tests</td>
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Cardiac Catheterisation
- Total procedures: 300
- Interventional: 200

There are currently 6 anaesthetically covered paediatric/adult congenital heart disease cardiac catheterisation sessions per week plus 1 anaesthetically covered EP session which may include congenital heart disease patients.

Emergency cardiac catheterisation is accommodated as required.
Cardiac Surgery:

Over 1500 open heart operations are performed each year, with approximately 470 for patients with congenital heart disease including approximately 70 adults with congenital heart disease. One of the strengths of this unit is the availability of carefully audited surgical results that compare favourably with anywhere in the world. These are available for inspection.

STAFF

**Congenital Heart Disease**

Dr AP Salmon  
Consultant Paediatric & Adult Congenital Cardiologist

Dr JP Gnanapragasam  
Consultant Paediatric Cardiologist

Dr KS Roman  
Consultant Paediatric Cardiologist

Dr AJ Carroll  
Consultant Adult Congenital Cardiologist

Dr T Richens  
Consultant Paediatric Cardiologist

Dr T Bharucha  
Consultant Paediatric Cardiologist

Dr Z Lim  
Consultant Paediatric Cardiologist

Dr A Magee  
Consultant Paediatric Cardiologist

Dr N Hayes  
Consultant Paediatric Cardiologist

Dr Z Ahmed  
Consultant Paediatric Cardiologist

**Cardiology**

Dr HH Gray  
Consultant Cardiologist & Interventionalist

Dr IA Simpson  
Consultant Cardiologist & Interventionalist
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Prof JM Morgan
Consultant Cardiologist & Electrophysiologist

Dr AL Calver
Consultant Cardiologist & Interventionalist

Dr PR Roberts
Consultant Cardiologist & Electrophysiologist

Dr N Curzen
Consultant Cardiologist & Interventionalist

Dr P Cowburn
Consultant Cardiologist & Heart Failure Specialist

Dr A Yue
Consultant Cardiologist & Electrophysiologist

Dr D Rakhit
Consultant Cardiologist & Echocardiography

Dr S Corbett
Consultant Cardiologist & Interventionalist

Dr J Wilkinson
Consultant Cardiologist & Interventionalist

Dr Andrew Flett
Consultant Cardiologist & Heart Failure Specialist

**Cardiac and Thoracic Surgery**

Mr S A Livesey
Consultant Cardiac Surgeon

Mr S Ohri
Consultant Cardiac Surgeon

Mr G Tsang
Consultant Cardiac Surgeon

Mr C W Barlow
Consultant Cardiac Surgeon

Mr T Velissaris
Consultant Cardiac Surgeon

Mr M Kaarne
Consultant Cardiac Surgeon (Adult and Paediatric)

Mr M Lavrsen
Consultant Cardiac Surgeon (Adult and Paediatric)

Mr Nicola Viola
Consultant Cardiac Surgeon (Adult and Paediatric)

Mr D Weeden
Consultant Thoracic Surgeon

Mr M Chamberlain
Consultant Thoracic Surgeon

Mr E Woo
Consultant Thoracic Surgeon

www.hee.nhs.uk
hee.enquiries@nhs.net
@NHS_HealthEdEng
Mr K Amer  
Consultant Thoracic Surgeon

**Cardiac Anaesthesia**

- Dr JMT Pierce  
  Consultant Anaesthetist
- Dr GC Charlton  
  Consultant Anaesthetist
- Dr DC Smith  
  Consultant & Senior Lecturer in Anaesthesia
- Dr RA Cope  
  Consultant Anaesthetist
- Dr MJ Herbertson  
  Consultant Anaesthetist
- Dr RS Gill  
  Consultant Anaesthetist
- Dr DA Hett  
  Consultant Anaesthetist
- Dr CD Deakin  
  Consultant Anaesthetist
- Dr P Diprose  
  Consultant Anaesthetist
- Dr A Curry  
  Consultant Anaesthetist
- Dr K Wilkinson  
  Consultant Anaesthetist

**Cardiac Radiology**

- Dr I W Brown  
  Consultant Cardiothoracic Radiologist
- Dr C R Peebles  
  Consultant Cardiothoracic Radiologist
- **Dr S Harden**  
  *Consultant Cardiothoracic Radiologist*
- Dr J Shambrook  
  Consultant Cardiothoracic Radiologist
MIDDLE GRADE AND JUNIOR STAFF

**Congenital Heart Disease**

1 Specialist Trainee in Adult Congenital Heart Disease
1 Senior Fellow in Adult Congenital Heart Disease
1 Trust Fellow in Adult Congenital Heart Disease

3 Specialist Trainees in Paediatric Cardiology
2 Rotating Specialist Registrars in Paediatrics
3 Trust Fellows in Paediatric Cardiology
4 CT1/CT2’s in Paediatric Cardiology

**Adult Cardiology**

9 Specialist Registrars (SpR)
2 Clinical Fellows in EP
1 Clinical Fellow in PCI
1 Clinical Fellow in Heart Failure
1 Clinical Fellow in Echocardiography

10 Senior House Officers
DETAILS OF THE POST

The Specialist Trainee will work in Adult Congenital Heart Disease under the supervision of Dr Aisling Carroll, Dr Tony Salmon and the team of congenital cardiologists. The congenital heart disease team assist in the post operative care of congenital heart disease surgical patients and the Adult Congenital Specialist Trainee will also work under the supervision of the Cardiac Surgical Consultants and of the Cardiac Intensivists.

No previous experience in adult congenital heart disease is required. The postholder will be given the required training in adolescent and adult congenital patient care, including the management of patients undergoing cardiac investigation and treatment including surgery.

Duties will include out-patient clinic work in Southampton.

Ward duties will include assessment of day cases, in addition to the care of in-patients on the wards, the adult cardiothoracic intensive care units and some patients on the medical, obstetric and surgical wards.

The Specialist Trainee will be required to undertake transthoracic and transoesophageal echocardiography. Training will be given in congenital cardiac catheterisation, pacemaker and arrhythmia management and electrophysiology. There is a regular teaching programme consisting of case presentations, topic discussions, journal club and echo review meetings. Excellent opportunities are available for training in all aspects of congenital heart disease.

The trainee will be required to maintain a training record which will be countersigned by the educational supervisor to confirm the satisfactory fulfilment of the required experience, and the acquisition of the competencies enumerated in the specialty curriculum.

Undergraduate medical students from the Southampton University Medical School are taught throughout the Trust and the post-holder is required to participate in undergraduate clinical teaching.
As a major university centre of excellence, the unit is at the forefront of research activity and the new postholder will be expected to actively participate in research and audit.

**Entry Requirements**

No previous experience in adult congenital heart disease is required. The applicant should have completed ST3 training and obtained the MRCP or equivalent qualification in paediatrics or in medicine.

**VISITING**

Candidates are encouraged to visit and should contact Dr Aisling Carroll (02380-795942) or Dr. Tony Salmon (02380-796724) for further details of the training post.

**Main Conditions of Service**

The posts are whole-time and the appointments are subject to:

1. The Terms and Conditions of Service (TCS) for Hospital Medical and Dental Staff (England and Wales)
2. Satisfactory registration with the General Medical Council
3. Medical Fitness – You may be required to undergo a medical examination and chest x-ray. Potential applicants should be aware of the Department of Health and GMC/GDC requirements with regards to HIV/AIDS and Hepatitis viruses. Candidates must be immune to Hepatitis B. You will be required to provide, in advance of appointment, evidence of immunity or have a local blood test (as deemed necessary by the Occupational Health Department)
4. Right to work in the UK
5. Criminal Records Check/POCA check carried out by the Trust Medical HR department.

6. Pre-employment checks carried out by the Trust Medical HR department.

**Hours**

The working hours for junior doctors in training are now 48-hours averaged over 26 weeks (six months). Doctors in training also have an individual right to opt-out if they choose to do so, but they cannot opt-out of rest break or leave requirements. However, the contracts for doctors in training make clear that overall hours **must not exceed 56 hours in a week** (New Deal Contract requirements) across all their employments and any locum work they do.

[http://www.nhsemployers.org/PlanningYourWorkforce/MedicalWorkforce/EWT D/Pages/EWTD.aspx](http://www.nhsemployers.org/PlanningYourWorkforce/MedicalWorkforce/EWT D/Pages/EWTD.aspx)

**Pay**

You should be paid monthly at the rates set out in the national terms and conditions of service for hospital medical and dental staff and doctors in public health medicine and the community health service (England and Wales), “the TCS”, as amended from time to time. The payscales are reviewed annually. Current rates of pay may be viewed at

[http://www.nhsemployers.org/PayAndContracts/Pay%20circulars/Pages/PayCircular sMedicalandDental.aspx](http://www.nhsemployers.org/PayAndContracts/Pay%20circulars/Pages/PayCircularsMedicalandDental.aspx)

Part-time posts will be paid pro-rata.
Pay supplement

Depending upon the working pattern and hours of duty you are contracted to undertake by the employer you should be paid a monthly additional pay supplement at the rates set out in paragraph 22 of the TCS. The current payscales may be viewed at: http://www.nhsemployers.org/. The pay supplement is not reckonable for NHS pension purposes. The pay supplement will be determined by the employer and should be made clear in their offer of employment and subject to monitoring.

Pension

You will be entitled to join or continue as a member of the NHS Pension Scheme, subject to its terms and rules, which may be amended from time to time.

Annual leave

Your entitlement to annual leave will be five or six weeks per annum depending upon your previous service/incremental point, as set out in paragraphs 205 – 206 of the TCS.

The TCS may be viewed at http://www.nhsemployers.org/PayAndContracts/MedicalandDentalContracts/JuniorDoctorsDentistsGPReg/Pages/DoctorsInTraining-JuniorDoctorsTermsAndConditions150908.aspx

Sick pay

Entitlements are outlined in paragraphs 225-240 of the TCS.

Notice

You will be required to give your employer and entitled to receive from them notice in accordance with paragraphs 195 – 196 of the TCS.
Study leave

The employer is expected to offer study leave in accordance with paragraphs 250 – 254 of the TCS. Local policy and procedure will be explained at your induction.

Travel expenses

The employer is expected to offer travel expenses in accordance with paragraphs 277 – 308 of the TCS for journeys incurred in performing your duties. Local policy and procedure will be explained at induction.

Subsistence expenses

The employer is expected to offer subsistence expenses in accordance with paragraph 311 of the TCS. Local policy and procedure will be explained at induction.

Relocation expenses

The employer will have a local policy for relocation expenses based on paragraphs 314 – 315 of the TCS and national guidance at http://www.nhsemployers.org/PayAndContracts/MedicalandDentalContracts/JuniorDoctorsDentistsGPReg/Pages/DoctorsInTraining-JuniorDoctorsTermsAndConditions150908.aspx

You are advised to check eligibility and confirm any entitlement with the employer before incurring any expenditure. In addition to local policy there is Deanery guidance which can be viewed on www.wessexdeanery.nhs.uk

Pre-employment checks

All NHS employers are required to undertake pre-employment checks. The employer will confirm their local arrangements expected to be in line with national guidance at
Professional registration

It will be a requirement of employment that you have professional registration with the GMC for the duration of your employment.

Health and safety

All employers have a duty to protect their workers from harm. You will be advised by the employer of local policies and procedures intended to protect your health and safety and to comply with these.

Disciplinary and grievance procedures

The employer will have local policies and procedures for dealing with any disciplinary concerns or grievances you may have. They will advise you how to access these, not later than eight weeks after commencement of employment.

Educational supervisor

The employer will confirm your supervisor on commencement.

General information

The Deanery’s management of Specialty Training programmes, including issues such as taking time out of programme and dealing with concerns or complaints, is available at www.wessexdeanery.nhs.uk and in the national ‘Gold guide’ to Specialty Training at http://www.mmc.nhs.uk/specialty_training_2010/gold_guide.aspx