Training Programme Information for Posts in Paediatric Cardiology at ST4 Level

Recruitment 2016

This document has details of all of the training programmes in the UK/Eire/Scotland areas.

Entry requirements for all placements are in line with the Modernising Medical Careers Person specification which can be found on the MMC website: http://specialtytraining.hee.nhs.uk/ and the Applicant Guide.

Details of the full curriculum for Paediatric Cardiology can be found on the Joint Royal Colleges of Physicians Training Board (JRCPTB) website: http://www.jrcptb.org.uk/

Further details will be available from your new employing organisation once you have accepted an offer of a post.

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Any information not included in this document should be available from specific deanery websites.
London

Pan London and Oxford Paediatric Cardiology training programme

There are 4 training venues: Great Ormond Street Hospital for Children, Evelina Children’s Hospital and Royal Brompton Hospital in London, and John Radcliffe Hospital (Oxford Children’s Hospital) in Oxford.

The Oxford post is for ST4 training only. Rotation occurs between the training centres. This is flexible, and decided annually. Trainee preferences are considered. These are ranked according to seniority in the training programme. There are a total of 13 approved training posts (GOS 5, Evelina 4, RBH 3, Oxford 1).

All of the 2010 curriculum special interest options for ST 7-8 can be provided within the pan London programme.

Information about each specific training venue can be obtained from Dr I Sullivan (GOS), Dr G Morgan (Evelina), Dr Z Slavik (RBH), and Dr S Adwani (Oxford).

Dr Sadia Quyam, currently at GOS, is the pan London and National trainee representative, and can also provide information about the programme.
Northern

Health Education England - North East Rotation Base(s)

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Health Education working across the North East (HEE NE)

HEE NE operates across a wide and geographically varied area covering Northumberland, Tyne and Wear, North Cumbria, County Durham and Tees Valley. We work with 11 acute trusts (which includes two specialist trusts providing mental health and learning disabilities services), 13 primary care trusts, 196 general practice training practices and 60 general dental training practices.

In the recent GMC 2015 National Trainee Survey, HEE NE have been ranked number one for a fifth year running for educational supervision. We also scored highly in areas such as:

- Overall trainee satisfaction
- Supportive feedback
- Local training
- Supportive environment

To find out more information about what it is like to ‘Live and Train’ within HEE NE you can visit our website www.ne.hee.nhs.uk/recruitment or the Find Your Place website: http://www.nhsfindyourplace.co.uk/

Rotation Information

The Paediatric Cardiology rotation is based entirely at the Freeman Hospital, Newcastle-upon-Tyne.

Trust Generic/Specialty Information

The Regional Cardiothoracic Centre is based at Freeman Hospital, providing a service to the former Northern Region - a population of 3.1 million. Extra-regional referrals are commonly received for transplantation, ECMO, electrophysiology and cardiac surgery.

The department of paediatric cardiology provides all aspects of care for paediatric and congenital heart disease, including specialist services in interventional cardiology, fetal cardiology, invasive electrophysiology, transplantation, adult congenital heart disease and ECMO.

There are six diagnostic catheterisation laboratories within the main theatre suite and one is specifically designed for paediatric patients. The theatre suite consists of four operating rooms and there are two cardiac surgeons actively involved in the surgery of congenital heart disease.

Staffing at the unit is currently as follows;
3 cardiothoracic surgeons
6 consultant cardiologists
3 paediatric cardiology StRs
1 rotating Str (paediatrics)
1 StR adult congenital heart diseases
6 paediatric SHOs (ST1-ST3)
7 PICU fellows

**Teaching**

There are regular undergraduate and postgraduate teaching sessions. The former takes place on the ward and in the outpatient clinic and the latter is part of a regular MRCP Course run by the Department of Child Health.
Yorkshire and the Humber

Location

Leeds General Infirmary

Departmental information

The department serves a population of approximately 5.5 million in Yorkshire, Humberside and Northern Trent. Services include all aspects of specialist tertiary care of cardiac patients with the exception of transplantation and ECMO. The annual workload of the department includes over 10,000 outpatient consultations, approximately 320 catheterisations per year, and approximately 380 paediatric cardiac operations and 90 adult congenital operations.

The congenital cardiology department is situated in the Children’s Hospital at the Leeds General Infirmary. The department includes a dedicated 16 bed paediatric cardiac ward, (of which 6 beds are designated as high dependency) and paediatric intensive care unit with 20 beds. There are obstetric, neonatal and all paediatric services on site. The adult congenital heart disease patients are cared for in the adjacent Jubilee Wing.

The department currently comprises:

- 7.5 consultant paediatric cardiologists
- 3.5 adult congenital cardiologists
- 3 congenital cardiac surgeons
- 1 cardiac radiologist
- 1 consultant echosonographer.
- 3 ST1-3
- 3 paediatric cardiology ST4+
- 2 ST7+ in paediatrics (a 1 year post for those wishing to be paediatricians with an expertise in cardiology)
- 1 ST4+ in adult congenital heart disease.

Echocardiography is delivered in a designated Congenital Echo Department. The Cardiac Investigations Unit provides ECG, ambulatory ECG, ambulatory BP, Exercise testing and CPEX.

Training information

Trainees will follow the curriculum as set out on the JRCPTB website. Special interest training areas are available in:

- Diagnostic and therapeutic cardiac catheterisation
- Electrophysiology, ablation and pacing
- Adult congenital heart disease
- Advanced echocardiography
- Advanced cardiac imaging (CT and MRI)
- Fetal cardiology
Trainees will receive training in all aspects of congenital heart disease. There are 2 weekly echo teachings, fortnightly MRI teachings and fortnightly journal clubs within the department. As part of a teaching hospitals trust, trainees will also be involved in the teaching of medical students.

Duties involve weekly ward cover managing patients on the ward, neonatal unit and PICU. This involves intra operative TOE/ epicardial Echo with consultant supervision. In addition, referrals are received from within the hospital and across the region. Trainees will attend outpatient clinics and will have exposure to catheterisation, EP, fetal, MRI and CT in advance of choosing their special interest area.

There is a 1 in 6 non resident on call rota covering only paediatric cardiology.

Trainees will be expected to contribute to the clinical audit programmes and practice monitoring such as CCAD data collection and prepare and present morbidity and mortality data. The trainee is will be encouraged to develop an interest in research.

**Contact**

For further information please contact:

Dr Dominic Hares/ Dr Fiona Willcoxson  
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West of Scotland

Preamble

Training in paediatric cardiology is motivationally demanding and frequently requires re-location within the United Kingdom, if not further afield. Candidates considering a career in paediatric cardiology should not embark on this without careful reflection. The importance of seeking the advice of both consultants and those training in the field cannot be over-emphasised. This brief prospectus does not endeavor to provide a comprehensive account of all aspects of training in paediatric cardiology in Scotland, nor should it. Potential candidates are strongly advised to contact the Training Program Director (details below) at the various units they are considering applying to, pending successful interview, and not to compare units simply on written information.

The Training Centre

The National Paediatric Cardiac Centre, based in Glasgow at the Royal Hospital for Sick Children, Yorkhill, provides the only training scheme for paediatric cardiology in Scotland. Its catchment population is 5.2 million. The unit did not fall under the auspices of the previous Safe and Sustainable review, nor subsequent bodies considering the configuration of congenital cardiac services in the United Kingdom. However, it voluntarily underwent reviews in 2011 by the Safe and Sustainable body, and 2013 by the Scottish government, in order to assure standards are comparable with other UK centers.

The unit undertakes all paediatric cardiac surgery and intervention in Scotland, this being over 300 cardiac surgical procedures and over 220 catheter intervention or electrophysiology cases annually. All paediatric cardiac procedures other than transplantation are represented in Glasgow. There is a highly developed paediatric ECMO service and an active research program in association with the Universities of Glasgow and Strathclyde. Cardiology patients are accommodated purely on Ward 5A, other than the neonatal and intensive care units. The paediatric intensive care unit consists of 16 ventilated beds, with an additional 8 high dependency beds. The hospital A&E is the only dedicated paediatric A&E in the West of Scotland, ensuring a steady flow of previously-undiagnosed cases. Outpatient services are provided both at Yorkhill and at 10 regional centers. The Cardiac Services department is staffed by five cardiologists with approval for a sixth appointment, and three congenital surgeons. A further two cardiologists maintain a predominantly outpatient-based service in Edinburgh. Two adult congenital cardiologists provide the ACHD arm of the service at the Golden Jubilee National Hospital, at which surgery and intervention are commissioned. The team also includes 10 physiologists and five liaison nurses.

Unit patient activity includes four all-day operating sessions, two all-day catheterisation sessions, with an extra weekly session shared between the two. There is a weekly electrophysiology session. There are currently eight
weekly outpatient sessions, with intentions for this to be expanded. In addition there are weekly pacing and fetal medicine clinics. The pre-admission clinic is run weekly.

In summer 2015 the Royal Hospital for Sick Children will transfer all services to a bespoke, new children's hospital build at the Southern General Hospital site, nearby. This is a state-of-the-art building, designed along contemporary best-practice guidelines, including IT capability and new models for patient care and movement throughout the hospital. All tertiary paediatric services will be represented and accommodated, including the largest neonatal unit and paediatric intensive care units in Scotland. The new cardiac ward will be a 14-bed dedicated unit adjacent to the intensive care unit, cardiac catheter laboratory and cardiac theatres, and connected across a walk-way to the neonatal unit. In preparation for the move, the Trust recently adopted a ‘paper-light’ policy with the introduction of an electronic patient record and tracking system, in addition to HeartSuite, a dedicated database developed in Glasgow. A new MRI suite will be added to the current scanner commissioned in 2012, and a new CT scanner will be installed.

**Training**

Training in paediatric cardiology is via a national grid system, is uncoupled from other schemes and can accept ST4 entrants from either general paediatrics or adult cardiology. All areas of training required for the attainment of a CCT according to the curriculum are represented in Glasgow. The training posts are recognised by the Royal College of Physicians and administered through the West of Scotland Deanery. The Trust adheres to the Deanery's requirements for study leave and funding. Training exposure is provided in echocardiography, cardiac catheterisation, electrophysiology, fetal medicine, cardiac intensive care, adult congenital cardiology and cross-sectional imaging. Special interest training can be undertaken in most of these areas, though it is generally recommended that trainees aspire to gaining experience in an additional centre(s) in the case of special interest training.

Only two trainees are simultaneously enrolled at the West of Scotland Deanery, ensuring excellent training exposure and the rapid accumulation of experience. This is important, as the five year training scheme consists of three years core training, during which all base competencies must be accrued, followed by two years of sub-specialty training. Core training can be tailored to afford trainees a chance to sample sub-specialty areas to help them chose an area for further training in the final two years. Sub-specialist training may require re-locating to another centre depending on individual requirements.

Trainees in Paediatric Cardiology at Yorkhill currently take part in a 1:5 resident partial shift roster, overnight call being provided via the Hospital At Night Team initiative. Trainees are based throughout their training at Yorkhill, with exposure to fetal medicine at the Southern General Hospital and to adult congenital cardiology at the Golden Jubilee National Hospital. Ward care is delivered by two ST1-3 trainees and an FY2, with additional support from two
Advanced Nurse Practitioners. A general paediatric trainee developing a special interest in paediatric cardiology is frequent attached to the unit. There is office accommodation with computer access located in close proximity to the ward and the secretarial area.

ST4-6 trainees are assigned to training weeks in ward duty, cardiac catheterisation, echocardiography, and audit/research. The ward registrar for the week is responsible for ensuring patient documentation including discharge summaries are up-dated. Attendance at up to two weekly outpatients sessions supported by a consultant is mandatory. Outreach clinics are provided at consultant level; attendance by trainees is not compulsory, though encouraged in the latter years. There is an active teaching program, consisting of weekly consultant teaching and a journal club, in addition to the hospital-wide CME program. Trainees are expected to participate in the teaching and supervision of more junior grades and medical students, including lecturing. Participation in audit and research initiatives is required at all times. Active contribution to the weekly unit surgical meeting is expected. This includes preparation of morbidity and mortality patients for discussion, as well as those for surgical referral. Trainees are enabled to attend the national training days. Trainees are expected to become involved in the running of the service at a greater than point-of-care level, with early exposure to management principles.

As mentioned, trainees considering nominating Glasgow as their preferred training centre are strongly encouraged to contact the Training Program Director prior to interview, who will be more than happy to discuss their intentions:

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North West - Mersey

Rotation Base

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<td>Alder Hey Children’s NHS Foundation Trust</td>
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LETB information

Health Education North West is one of two organisations in the NHS North West region responsible for the facilitation, commissioning and management of postgraduate medical and dental education and training of doctors and dentists.

Health Education North West (HENW) is a non-statutory organisation and is co-terminus with the Cheshire and Merseyside boundaries (2,265,000 population¹). Since October 2011, as a consequence of ‘Equity and excellence: Liberating the NHS’, HENW as part of the former NHS North West comes under NHS North of England as the current statutory body.

From April 2013, HENW is part of a Local Education and Training Board under Health Education England; a Special Health Authority accountable to the Secretary of State for Health.

Rotation Information

Expected rotation arrangements for this programme are:

- The programme will be divided into six month rotations – with exposure to general cardiology, interventional cardiology, fetal cardiology, cardiac MRI/CT, electrophysiology and adult congenital cardiology.

- The main duties are at the Alder Hey Children’s NHS Foundation Trust, serving wards 1C, High Dependency Unit and the Paediatric Intensive Care Unit, along with outpatients. Occasionally duties will include visits and duties in hospitals other than headquarters. A trainee may occasionally travel to Manchester for additional training experiences, either at the new Royal Manchester Children’s Hospital (general paediatric cardiology) or at St Mary’s Hospital, Manchester (foetal cardiology) or at the Manchester Royal Infirmary/Liverpool Heart and Chest Hospital (Adolescent and Adult Congenital Heart Disease).

Trust Generic/Specialty Information

Alder Hey Children's NHS Foundation Trust is one of Europe’s biggest and busiest children’s hospitals providing care for over 200,000 children and young people each year. It is one of only four stand-alone paediatric trusts in the UK and is staffed by 2,800 employees. The department, which is the cardiac surgery centre for the North West, North Wales and the Isle of Man, has been selected to remain a dedicated centre for
paediatric cardiac surgery following a national review of children’s cardiac services by the Safe and Sustainable team.

The Liverpool department provides a fully integrated regional and supra-regional medical and surgical service for infants, children, adolescents and adults with congenital heart disease. Close links exist with the Institute of Child Health at the University of Liverpool, the Department of Child Health at the University of Manchester and, for adolescent and adult congenital heart disease, with both the Liverpool Heart and Chest Hospital and the Manchester Royal Infirmary.

- Statistics

Each year there are approximately 7,000 clinic attendances, 300 cardiac catheterisations and 430 cardiac operations. The regional unit in Manchester is based at the Manchester Children’s Hospital. Close working links exist between the two Units. All cardiac surgery and interventional catheter procedures are undertaken in the Liverpool Unit. Both units have active foetal diagnostic services and training in adult congenital heart disease.

- Services provided to patients

The Liverpool department provides a fully integrated regional and supra-regional medical and surgical service for infants, children, adolescents and adults with congenital heart disease. Close links exist with the Institute of Child Health at the University of Liverpool, the Department of Child Health at the University of Manchester and, for adolescent and adult congenital heart disease, with both the Liverpool Heart and Chest Hospital and the Manchester Royal Infirmary.

- Department staff breakdown

8 Consultant Paediatric Cardiologists
3 Consultant Paediatric Cardiac Surgeons

Junior Staff:
4 Specialist Registrars in Paediatric Cardiology,
2 Paediatric Registrars,
2 Clinical Fellows
5 Cardiology SHOs and 1 F2 post holders
5 Cardiac Surgical Registrars.

- Rota

This is a resident partial-shift rota (1:8)

- Timetable information

The training timetable can be adapted to meet the training requirements of any individual trainee. The successful applicant will be provided with training in all aspects of paediatric cardiology. Their specific timetable will be
appropriate to their previous experience and level of expertise within the specialty.

**Teaching**

There are formal teaching sessions in cardiology and cardiac surgery on a regular basis. There are joint cardiology and cardiac surgical meetings on Mondays and Thursday mornings where the results of cardiac catheterisation and echocardiography are presented and discussed. There are regular clinical audit meetings and the post holder is expected to take an active part in the audit cycle.

On the Alder Hey site a good library is available around the clock in the Education Centre. It contains up to date textbooks and the most important paediatric journals. A separate cardiac library is also available within the department and there are two medical reference libraries at the Liverpool Medical Institution and the University of Liverpool sited within 6 miles of the hospital.