Training Programme Information for Posts in Cardiothoracic Surgery at ST1 Level

Recruitment 2013

This document has details of all of the training programmes in the UK.

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

Details of the full curriculum for Cardiothoracic Surgery ST1 can be found on the Intercollegiate Surgical Curriculum Programme (ISCP) website: https://www.iscp.ac.uk/Default.aspx

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

Below are the Deaneries which have indicated they will be recruiting an ST1 in Cardiothoracic Surgery. Any changes to posts will be updated on the Wessex Deanery website and in this document.

<table>
<thead>
<tr>
<th>East Midlands</th>
<th>Northern</th>
</tr>
</thead>
<tbody>
<tr>
<td>North West</td>
<td>Scotland</td>
</tr>
<tr>
<td>South West</td>
<td>Wales</td>
</tr>
<tr>
<td>West Midlands</td>
<td>Wessex</td>
</tr>
</tbody>
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Any information not included in this document should be available from specific deanery websites.
East Midlands

Deanery Rotation Base(s)

<table>
<thead>
<tr>
<th>HOSPITAL</th>
<th>LOCATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glenfield Hospital</td>
<td>Leicester</td>
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<tr>
<td>City Hospital</td>
<td>Nottingham</td>
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East Midlands Healthcare Workforce Deanery (EMHWD) is an integral part of NHS Midlands and East, and the East Midlands Local Education and Training Board (LETB). The Deanery teams work closely with the Education Commissioning and Workforce teams in East Midlands to ensure that together we deliver a fit for purpose healthcare workforce dedicated to providing high quality safe healthcare for the population of the East Midlands.

The area in which our educators work is geographically large and serves a population of 4.3 million, and a healthcare workforce in excess of 80,000. This provides a breadth of learning and working environments including some of the largest teaching hospitals nationally and some of the smallest rural Primary Care Trusts.

The Deanery is led by Dr Sheona MacLeod as Postgraduate Dean

**Rotation Information**

Expected rotation arrangements for this programme are:

**ST1** : 12months in Glenfield Hospital : 4 months Thoracic Surgery (Mr Nakas, Mr Waller); 4 months Cardiac Surgery (Prof Murphy), 4 months General Surgery (LRI)

**ST2** : 12 months in Nottingham City Hospital : 4 months Emergency Surgery (Mr Brooks, QMC Nottingham), 4 months Thoracic Surgery (Mr Duffy); 4 months Cardiac Surgery (Mr Richens)

**ST3** : 3 months ITU module (Intensive Care Society approved) in Leicester (supernumerary, supervised by Intensivist Dr Allsager, surgical on-call) ; 9 months basic cardiac surgery in Leicester (Prof Murphy)

**ST4** : Basic pleuropulmonary surgery in Nottingham (Mr Majewski)

**ST5** : 6 months intermediate adult cardiac surgery in Nottingham [Mr Richens, Mr Mitchell] ; 6 months Congenital cardiothoracic surgery/ECMO in Leicester [Mr Peek].

**ST6** : Intermediate pleuropulmonary surgery in Leicester [Mr Waller, Mr Nakas]

These placements are discretionary based upon competency attainment and career progression. The program is seeking SAC recognition for ST7/8 training in advanced Cardiac Surgery from 2013.

**ST7** : Advanced oesophageal surgery in Nottingham [Mr Duffy]. *Advanced cardiac surgery in Nottingham (Mr Mitchell, Mr Richens).*

Trust Generic/Specialty Information

Glenfield Hospital, University Hospitals of Leicester (UHL)

The Cardiothoracic Unit is sited at the Glenfield Hospital. UHL is a university teaching hospital affiliated with Leicester University Medical School. At present the Cardiac Surgical Unit has 49 surgical beds, 23 adult intensive care beds and 10 paediatric intensive care beds. There are five operating theatres. The Cardiothoracic Unit serves the southern half of the East Midlands SHA, which comprises a population of 2.8 million people. The Unit provides a comprehensive medical and surgical service for patients with cardiac and thoracic disease, including congenital heart disease, but excluding transplantation. The annual cardiac surgical workload comprises over 1000 operations for acquired heart disease, 300 operations for congenital heart disease. 80 patients were treated at the regional unit for extra corporeal membrane oxygenation based at this hospital.

The Thoracic Surgical Unit has 22 beds including 5 integrated HDU beds. The full range of pleuropulmonary surgery is performed for Leicestershire, Northamptonshire, South Staffordshire and South Derbyshire together with national referrals for mesothelioma surgery. Annual workload comprises: over 800 thoracic surgical procedures including 35 radical mesothelioma resections and 30 LVRS procedures. Over 15% of all major lung cancer resections are performed by VATS. Trainees carried out 60% of all lung cancer resections last year.

University Hospitals of Leicester NHS Trust - Glenfield Hospital:

Cardiac: 2 training posts, 1 in 5 non-resident rota (currently 1 LAT)
Congenital: 1 training post; supernumerary (currently 1 ST)
Thoracic: 2 training posts, 1 in 5 non-resident rota (currently 1 ST, 1 OOPT)

Nottingham University Hospitals, City Hospital Campus

Nottingham University Hospitals is a major provincial teaching hospital. There are 1207 beds on the City campus. The City Hospital provides a wide range of specialties but there is no Accident and Emergency Department on the campus. When current developments are completed, it will have over 1,400 beds, making it one of the largest hospitals in Europe. All these beds are located on one 85 acre campus, with outpatient facilities and all support services. The hospital employs 4,500 staff, deals with 55,000 inpatients per annum, including day patients, and over 180,000 outpatients per year.

There are several regional specialties: Cardiac Surgery, Thoracic Surgery, Renal Dialysis and Transplantation, Burns and Plastics, Cytogenetics and neonatal Medicine and Surgery.

Over 750 major thoracic operations are performed each year including 60 major oesophageal resections. Over 800 cardiac cases are performed each year through a 16 bedded critical care unit which is staffed by nurse practitioners allowing the trainee surgeons to run a non-resident on-call rota.
Nottingham University Hospitals NHS Trust – Nottingham City Hospital

**Cardiac** : 2 training posts, 1 in 5 rota. *(currently 2 LATs)*
**Thoracic** : 2 training posts, 1 in 5 non-resident rota *(currently 1 ST3, 1 LAT)*

**Jobplan**
The trainee will attend at least 3 operating sessions and one outpatient clinic per week. In addition they will attend at least one Consultant ward round per week. It is hoped that the trainee will be on a 1 in 8 on-call rota in Leicester at ST1 and in Nottingham for Emergency Surgery but from ST2 Cardiothoracic onward on a 1 in 4 or 1 in 5 non-resident on-call rota. They will have the opportunity to participate in the postoperative care on HDU and wards and the assessment of cardiothoracic trauma. In ST1 in the operating theatre the trainees will be supervised in the opening and closing of the chest; the harvesting of conduits for revascularization; diagnostic videoassisted thoracoscopy and mediastinoscopy and airway management (bronchoscopy/tracheostomy).

**Teaching**
In addition to the local MDTS and weekly departmental teaching sessions the rotation has an organized, comprehensive monthly regional teaching program including a biannual Midlands Cardiothoracic Surgical Meeting which encompasses hands-on training and abstract competitions. Attendance at the Society for Cardiothoracic Surgery Annual Meeting and Royal College Courses in Cardiothoracic Surgery will be expected. The trainee will be expected and encouraged to complete and present (preferably at a national meeting) one audit or research project for each 6 month attachment.

Mr Waller as TPD will supervise the completion of a minimum of 40 WPBAs per year including 1 MSF per attachment.

**Summary**
The East Midlands offers a compact, comprehensive training program by a closely co-ordinated committed faculty.

We have an excellent record in placing our Core trainees into ST3 posts. In each of the last 3 years 4 of our CTs have been either shortlisted or appointed at National selection. All but one of our trainees have passed the FRCS(CTh) exam first time and we have placed 9 of our last 10 CCT holders into Consultant posts.

We accept that training a general cardiothoracic surgeon is no longer feasible and will therefore aim to train Consultants with highly developed specialist interests in either Thoracic or Adult Cardiac surgery.

Further information available from:

Mr David Waller, TPD [david.waller@uhl-tr.nhs.uk](mailto:david.waller@uhl-tr.nhs.uk)
Or
Mr Keng Ang, Trainee Rep on RTC [klmailbox@aol.com](mailto:klmailbox@aol.com)
Northern Deanery

Deanery Rotation Base(s)

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<th>HOSPITAL</th>
<th>LOCATION</th>
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<tr>
<td>Freeman Hospital</td>
<td>Newcastle</td>
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<tr>
<td>James Cook University Hospital</td>
<td>Middlesbrough</td>
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The Northern Deanery

The Northern Deanery 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 2012 National Trainee Survey, the Northern Deanery scored top in the following:

- Overall trainee satisfaction - highest scoring deanery in England, Wales & Northern Ireland for the second year running
- Clinical supervision - highest score in the whole of the UK
- Educational supervision - highest score in the whole of the UK
- Induction - highest score in the whole of the UK
- Feedback - highest score in the whole of the UK
- Adequate experience - highest in England, Wales & Northern Ireland

Because we know that the quality of education and training is of paramount importance to you, our investment in our trainers and their training is essential to our success. It is also important to have wide and varied experiences in different fields and environments. You will gain a breadth of experience in selected and supervised hospital posts throughout the area in large university acute hospitals, community hospitals and district general hospitals to ensure you get the training you need to give you a rewarding future career. Within these areas you will have the opportunity to work with nationally and internationally recognised clinicians and leaders.

To find out more information about what it is like to ‘Live and Train’ in the Northern Deanery you can visit our website [www.liveandtrain.nhs.uk](http://www.liveandtrain.nhs.uk)

The Northern School of Surgery was established in September 2006 as the first new wave “specialty postgraduate school” in the Northern Deanery to deliver the modernizing medical career agenda across the previously separate nine surgical specialties.

At the same time each medical specialty was required to submit for approval “a curriculum” which for the first time represented an explicit statement of the syllabus, mode of assessment, way-points and endpoint of specialty education. The School of Surgery was charged with reorganising surgical education and training within the Deanery so as to deliver the newly approved surgical curricula to the required standards.
At its heart the School of Surgery is accountable to its Board on which sits the Postgraduate Dean, a lay representative and a representative of the Strategic Health Authority (usually a Chief Executive of an Acute Trust).

This Board is the meeting point where alongside the members above, each individual specialty training committee, including the Core Surgical Training committee, agree strategies and policy relating to the delivery, conduct and quality assurance of postgraduate surgical training in the Northern Deanery.

Each Specialty Training Committee is, of course, responsible for the regulation and training of that specialty and for educational well being of all trainees committed to that specialist surgical career.

One of the GMC standards defines the Deanery responsibility for quality assurance and quality monitoring as part and parcel of the ongoing educational process. This responsibility is cascaded to individual schools and thence to individual STCs. This annual process leads to a continuously evolving evaluation that generates an action plan addressing quality issues relating to specialty surgical education and training in the Deanery.

A further committee, The Education Committee, is responsible for organising courses and educational events, not only for trainees but as part of a programme of Faculty Development which aims to prepare “surgical educators” who are able to deliver surgical education and training in line with the new curricula and but additionally able to provide trainees with support, guidance and constructive feedback.

Finally, the School of Surgery is able to communicate issues relating to manpower and consultant job planning where this affects education and training to Trusts through a Forum involving Directors of Postgraduate Education and in collaboration with the Forum involving other heads of school.

Further information can be found at:--
http://www.northerndeanery.nhs.uk/NorthernDeanery/specialty-training

The Deanery encompasses training in Cardiothoracic Surgery in two regions – Newcastle and Middlesbrough. The ST1 will be managed in Newcastle and on successful run-through, will rotate to Middlesbrough. All sub-specialty components of Cardiothoracic Surgery are offered within this rotation, with an international Transplantation and congenital cardiac surgery reputation.

**Rotation Information**

Expected rotation arrangements for this programme are:

- We have successfully managed Core Trainees who have expressed a wish to do Cardiothoracic Surgery Higher Surgical Training. We have given them an exposure in their CT1 time and after successful MRCS have given them a second diet of the Specialty at CT2 to ready them for ST3 application. Two years running we have had our own highly successful candidates choosing the Northern Deanery for their ST3 training.
As a result we feel ably placed to offer the same to ST1 candidates. Under the dual supervision of Core and Specialist Program Directors, we can offer 16 months of Cardiothoracic Surgery Training in two diets, with a directed rotation of relevant postings preparing them for MRCS. The candidate will be supported with ATLS, BSS, CCrISP and Specialty Skills in Cardiothoracic Surgery courses.

Trust Generic/Specialty Information

- Each Trust has established cardiothoracic training: – 2 cardiothoracic and 5 cardiac surgeons in Middlesbrough - specialist interest in minimally invasive mitral surgery; 1 cardiothoracic, 3 thoracic, and 2 congenital surgeons in Newcastle –specialist interest in advanced heart and lung failure, and minimally invasive thoracic surgery. Within the 19 surgeons, there is an ex-president of SCTS, present SAC dean, and national lead for transplantation, so there is plenty of resource for career advice and steering. Newcastle Upon Tyne Hospitals NHS Trust offers relevant postings in non-cardiothoracic surgery to allow successful preparation for MRCS and the ST3 post – it is envisaged that this will include plastic surgery and general surgery.

- The ST1, when in cardiothoracic surgery, will spend a supernumerary month in cardiothoracic intensive care, time on the ward and in pre-assessment clinic to ensure thorough knowledge is gained of the ward patient, and time in theatre and clinic to hone surgical and management skills.

- There are 9 Nurse practitioners who manage the patients in pre-assessment clinic and on the ward freeing up the ST1 to immerse themselves in their surgical training. There are 3 surgical nurse practitioners to allow surgical training in cardiac and thoracic theatre

Teaching

- There is a regular weekly teaching which the ST1 will contribute to, and monthly regional training – there is a planned continuum of revascularisation wet and dry labs training Jan to June 2013, and after this a planned simulation, wet-lab and cadaveric dissection for minimally invasive thoracic surgery. In addition to this there is a program of simulation of cardiac surgery emergencies.

- All minimally invasive thoracic surgery procedures will be recorded to allow personal assessment of surgical progression and comparison to consultant procedures.

- One consultant in the rotation has won the Silver Scalpel award 2012, for excellence in cardiothoracic training.
Surgical Training Centre fully accredited by Royal College of Surgeons
Newcastle is first centre in England to receive full accreditation from RCS
Posted: 11 July 2012

CORE SESSIONS
CT1 & CT2

• Surgical Instruments / Laparoscopic Stack
• Virtual Reality Simulation:
  Lap Mentor / Simendo Training
• Position & Draping of Patients
• Wound Closure Principles & Advanced Techniques
• Suturing Techniques
• Decision Making
• Case Based Discussion & Diagnostic Dilemmas

Healthcare at its very best - with a personal touch
CORE TRAINEES

Healthcare at its very best - with a personal touch
North West Deanery

ST1 and ST2 Cardiothoracic Surgery Training Locations:

<table>
<thead>
<tr>
<th>Hospital Location</th>
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<tbody>
<tr>
<td>Wythenshawe Hospital, University Hospital of South Manchester NHS Foundation Trust</td>
<td>Wythenshawe, Manchester</td>
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The School of Surgery was established within the North Western Deanery in December 2007 following the appointment of Professor Phil Turner as the Head of School.

The School oversees training in all of the recognized surgical specialties. The aim is to provide both core and specialist training to ensure new consultants are appointed with the knowledge and skills required for a lifetime of professional practice. The School is responsible for more than 300 surgical trainees across the Region which extends from Barrow-in-Furness in the north to Stockport in the south and from the Pennine moors in the East to the West coast. The population served is over 5 million and there are approximately 500 surgical consultants providing clinical services and training across the Deanery at 19 centres.

The core function of the School is to manage the quality of training, ensuring that trainees have access to the highest standards of teaching at all stages of their careers. The School has a lead role in trainee recruitment, assessments and appraisals, preparation for examinations, practical skills training and the development of non-technical skills. The School has close links to the Manchester Medical School and other Universities in the region who provide health related education and facilities for research. The Region has an excellent reputation in surgical research and trainees are encouraged to become involved in the academic aspects of surgery. In addition, there are opportunities to gain specific training in Medical Education and Medical Leadership.

Training has to comply with the requirements of the surgical curriculum so the School works closely with the Royal Colleges and Specialty Advisory Committees at all levels.

Professor Phil Turner is a consultant orthopaedic surgeon based at Stepping Hill Hospital, Stockport. Before being appointed as Head of School, he was Regional Advisor and then Programme Director in Trauma and Orthopaedics in the North Western Deanery. He has a specialised practice in knee surgery and remains active in teaching and training at local, national and international levels. He is an elected member of BOA Council and sits on the Training Standards Committee. In addition he is an examiner and assessor for the FRCS (Orth) and is Chairman of the Confederation of Postgraduate Schools of Surgery (CoPSS).

The Associate Dean leading for the North Western Deanery and responsible for the School is Professor Pramod Luthra.
ST1 & ST2 Cardiothoracic Surgery

Introduction / Overview of the programme:

Cardiothoracic surgery at ST1 and ST2 is delivered in line with the Intercollegiate Surgical Curriculum Project [www.iscp.ac.uk](http://www.iscp.ac.uk).

General description of rotation:

The ST1 and ST2 years will consist of 18 months in Cardiothoracic Surgery plus 6 months General Surgery. The ST1 rotation will involve 6 months in General Surgery at Wythenshawe Hospital and 6 months in Cardiothoracic Surgery at Wythenshawe Hospital. The ST2 rotation will be 12 months of Cardiothoracic Surgery at Wythenshawe Hospital.

Educational opportunities:

Trainees in ST1 and ST2 will be expected to attend local educational programmes which are held within the hospital they are working in. There is a comprehensive core teaching programme which takes place on Wednesday afternoons at Wythenshawe Hospital, attendance is mandatory and an attendance register is kept and monitored. The timetable for teaching can be viewed at [www.surgicalcourses.com](http://www.surgicalcourses.com).

Research / audit / teaching:

Opportunities for clinical research exist within all departments involved in the programme and trainees are expected to take advantage of this. All trainees should be actively involved in audit on an ongoing basis and be in a position to demonstrate this at annual appraisal and ARCP interviews. Teaching of less experienced medical colleagues, medical students, nurses and other paramedical staff is an integral part of the post and all trainees are expected to be involved in this.

ST4 to ST9 Rotation In North West Consortium (Higher Surgical Training ) will be in Northwest Consortium

**North West Cardiothoracic Consortium**

**North West and Mersey Deaneries**

The North West Consortium will provide one of the most comprehensive training programmes for Cardiothoracic Surgery in the UK, with opportunities to develop subspecialty interest in all areas of cardiac and thoracic surgery including transplantation surgery, oesophageal surgery, congenital surgery, specialised aortic surgery, and mitral valve repair. Close links with Liverpool and Manchester Universities and the Paterson's Institute of research (Christie Hospital) along with the excellent transplant research lab offer excellent opportunities to pursue academic aspirations. The program will offer opportunities to actively participate in the Northwest Cardiac / Thoracic surgery audit, North West Quality improvement program, North West Thoracic Society meetings and North West regional teaching sessions. The Northwest consortium will also offer excellent high quality educational resource which is highlighted below.
The North West and Mersey Deaneries are geographically adjacent to each other and have formally collaborated for Cardiothoracic Surgical training since August 2009 to form the North West Cardiothoracic Consortium. Applications are directed to the Consortium rather than to the individual Deaneries. After appointment trainees are allocated to either the Mersey or the North West Deanery for overall supervision of their training.

The specific program for any individual trainee will be developed to reflect his/her specific training aspirations, commensurate with the overall requirements of the curriculum and the availability of specific training opportunities. Trainees can expect to spend the majority of their training time within the Deanery to which they are appointed.

Given the size of the consortium and the sub specialty strengths of the consortium, it is possible for trainees to specify from the outset their preferred training program to include either general cardiac surgery, mixed practice cardiothoracic surgery or general thoracic surgery.

The program involves the following centers:

<table>
<thead>
<tr>
<th>HOSPITAL</th>
<th>LOCATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liverpool Heart And Chest Hospital (LHCH)</td>
<td>Liverpool</td>
</tr>
<tr>
<td>Alder Hey Children’s Hospital</td>
<td>Liverpool</td>
</tr>
<tr>
<td>University Hospital South Manchester (UHSM)</td>
<td>Wythenshawe, Manchester</td>
</tr>
<tr>
<td>Manchester Royal Infirmary (MRI)</td>
<td>Manchester</td>
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<tr>
<td>Lancashire Heart Centre, Victoria Hospital</td>
<td>Blackpool</td>
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Mersey Deanery

Liverpool Heart and Chest Hospital NHS Foundation Trust

The Liverpool Heart and Chest Hospital (LHCH) is one of the largest single centre cardiothoracic units in the United Kingdom and is an autonomous single specialty Foundation Trust on the site of Broadgreen Hospital. It provides tertiary services in Cardiothoracic Surgery, Cardiology and Chest Medicine to a population of 2.8 million in Merseyside, North Wales and the Isle of Man as well as parts of Lancashire and Cheshire. All types of cardiothoracic surgery are carried out with the exception of transplantation. The hospital carries out over 3000 cardiothoracic operations every year. Consultant staffing comprises 10 cardiac surgeons, 4 thoracic surgeons and 2 cardiothoracic surgeons
The service has a number of particular strengths:

- The largest aortic surgical service in the UK including complex thoracoabdominal procedures and a significant amount of endovascular procedures. There is a separate consultant on-call rota for emergency aortic surgery
- Off-pump coronary artery bypass surgery – one of the largest experiences in the UK and Europe
- A comprehensive mitral repair program including radiofrequency ablation
- Minimal access aortic valve and coronary artery surgery
- A transcatheter aortic valve implantation (TAVI) program with both transfemoral and transapical approaches.
- Epicardial pacing

- All aspects of minimally invasive thoracic surgery including a mature VATS lobectomy service
- Complex oesophagogastric surgery especially for OG cancers. Close cooperation with upper GI surgery. OG cancer MDT based at LHCH
- Lung volume reduction surgery, endobronchial valve implantation
- Chest wall and mesothelioma surgery
- Comprehensive cover of lung cancer MDT’s with outreach clinics in all regional hospitals
- Advanced colorectal cancer MDT for management of pulmonary metastases
- Links with regional sarcoma MDT

**Alder Hey Childrens NHS Foundation Trust, Liverpool**

This hospital, which is one of the largest children’s hospitals in Europe, serves a population of 6 million, covering the North West of England, North Wales and the Isle of Man. All aspects of paediatric heart disease are managed with the exception of paediatric transplantation. Over 450 paediatric cardiac operations are carried out every year. There are well-established transitional arrangements in place for adult patients with congenital heart disease, with seamless transfer of care to Manchester Royal Infirmary.

Trainees in Alder Hey are exposed to all aspects of congenital heart disease. They are actively involved in pre-operative evaluation, intra operative surgical strategies, and immediate post-operative critical care management of the children. Opportunities are provided to perform paediatric cases as first operators and to be involved in more complex neonatal procedures as first assistant. There is an active interdepartmental teaching and research program with paediatric cardiology and intensive care.

**North West Deanery**

**University Hospital South Manchester NHS Foundation Trust (UHSM)**

The hospital is a tertiary referral center and provides a comprehensive service in cardiac and thoracic surgery, cardiopulmonary transplantation, ECMO and ventricular assist therapy. The hospital has a catchment population of 3.2 million for specialist services. Consultant staffing includes 7 cardiac surgeons, 1 cardiothoracic surgeon and 4 thoracic surgeons including one locum thoracic surgeon. The majority
of the cardiac and thoracic surgeons are involved in the transplant program. The service performs 900 cardiac, 1500 thoracic and about 45 heart / lung transplants per year.

Strengths of the service include the following:

- Heart and Lung Transplantation
- Mitral valve repair
- Aortic surgery including TAVI
- Heart assist device
- ECMO
- The entire spectrum of general thoracic surgery including VATS lobectomy, 24/7 airway intervention service, joint operating with spinal surgeons, LVRS, enobronchial valve implantation and pulmonary metastatectomy.

Central Manchester University Hospitals NHS Foundation Trust
Located on the site of Manchester Royal Infirmary (MRI) the Manchester Heart Centre offers tertiary cardiac and adult congenital cardiac service to a wide population. Consultant staffing include 6 cardiac surgeons including one locum. Two of the adult cardiac surgeon offer adult congenital cardiac surgery. The service performs 800-900 cardiac surgical operations. Strengths of the service include:

- Off Pump surgery
- Mitral valve repair service
- Redo cardiac surgery
- Adult congenital cardiac surgery program

Victoria Hospital NHS Trust, Blackpool
The Lancashire Cardiac Centre provides adult cardiac and thoracic surgery for the people of Lancashire, Cumbria and beyond. The unit is planning to do 1200 adult cardiac, 200 major lung resections and around 400 other thoracic procedures this year.

The trainee will be exposed to a full spectrum of adult cardiac and thoracic surgery.

- Port access cardiac surgery program. This is the 2nd largest in the country with 1 to 2 cases a week, mainly for mitral valve repair.
- Off pump CABG
- Endoscopic Saphenous Vein Harvesting
- TAVI program
- Suturless Aortic Valve program
- VATS Lobectomy
- Atrial Fibrillation Surgery and Epicardial pacing
- Weekly Thursday Cardiology/Cardiac Surgery MDT meeting for difficult cases
- Weekly Lung cancer MDTs at Blackpool, Preston, Blackburn and Lancaster
- Weekly educational meeting
North West Consortium Educational Resources

- Weekly teaching meetings at all hospitals
- Monthly North West Regional Teaching Program
- Wet lab sessions covering CABG, MVR, AVR, Mitral valve repair, Aortic root replacement and VATS surgery
- Mitral Valve Symposium
- National TOE Course
- Terms and techniques for aortic surgery for trainees
- Imaging in cardiothoracic / oesophageal surgery
- Perfusion in cardiac surgery
- Difficult Scenarios in cardiac, thoracic and oesophageal surgery
- North West FRCS(CTh) preparation course
- Viva practice for FRCS(CTh)
- FRCS(CTh) Examiners

Strengths of North West Consortium include the following

- Ability to provide comprehensive training in all aspects of cardiac, thoracic, congenital and transplantation surgery
- Ability to fully train a cardiac or thoracic surgeon with subspecialty interests
- Close relative geographic location of hospitals in the program
- Ability to provide training to suit the needs of all trainees
- Excellent educational resources
- High pass rate at FRCS(CTh) and excellent history of appointment to UK consultant positions for trainees
- Opportunities for academic development
- Trainee representation on regional training committee
- Deanery / School of Surgery support
- Previously hosted Intercollegiate FRCS(CTh) examinations
- Excellent trainee feedback

Operative Experience
The following information relates to the percentage of cases carried out by trainees as lead surgeon between 2007 and 2012, operating either alone or with consultant assistance.

Cardiac Surgery

**LHCH**
- All middle grades = 11%
- Senior (ST5-ST6) numbered trainees = 24%

**UHSM**
- All middle grades = 27%
- Senior (ST5-ST6) numbered trainees = 63%
- Heart retrievals = 100%
- Heart Implants = 3.6%
MRI

- All middle grades = 21%

Lancashire Cardiac Centre

- All middle grades = 10.3%
- ST4 trainees
  - CABG = 56%
  - AVR = 62%
- ST3 trainees - Sternotomy / IMA harvest / Cannulation / Decannulation
  - > 90% of cases

Thoracic surgery

LHCH

- All middle grades = 41%
- Senior (ST5-ST6) numbered trainees = 69%

UHSM

- All middle grades = 40%
- Senior (ST5-ST6) numbered trainees = 76%
- VATS lobectomy - Aug 2009 to Sep 2010 = 20 cases
- Lung retrieval = 100%
- Lung implants = 39%

Lancashire Cardiac Centre

- All middle grades = 20%

Junior Medical staffing

LHCH

- NTN specialty registrars: 7
- Clinical fellows (including overseas thoracic fellow): 7
- Specialty doctors: 3
- Rota = two tiers of full shift middle grade cover, EWTD compliant (junior = 1 in 9, senior = 1 in 8)
- SHO grade - CT1/CT2 = 2, FY2 = 3, Trust SHO = 5. Rota = 1 in 10

Alder Hey

- Specialist registrar/ Clinical Fellows: 5
- ROTA: 1:5, EWTD compliant

UHSM

- NTN specialty registrars: 3
- Clinical fellow: 5
- Speciality Doctor / Associate specialist: 3
- Transplant fellows: 5
- CT1/ CT2: 3
- Rota = 1:9 partial shift, EWTD compliant
- Trust fellow (SHO grade): 3
MRI
- NTN specialty registrars: 1
- Clinical fellow: 7
- Rota =1:8 partial shift, EWTD compliant
- CT1/CT2/F1: 3

Lancashire Cardiac Centre
- NTN specialty registrars: 1
- Clinical fellow: 7
- Rota = 1:9, resident on call, EWTD compliant
- CT1/CT2: 2
- Trust grade (SHO): 3
South East Scotland

Refer to: www.STRaCTS.co.uk

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<table>
<thead>
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<tbody>
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<td>Little France, Edinburgh</td>
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<tr>
<td>Golden Jubilee National Hospital</td>
<td>Clydebank, Glasgow</td>
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<td>Royal Sick Children's Hospital</td>
<td>Yorkhill, Glasgow</td>
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<tr>
<td>Aberdeen Royal Infirmary</td>
<td>Forrester Hill, Grampian University teaching hospitals, Aberdeen</td>
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South-East Scotland

The Lister
11 Hill Square
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Tel: 0131 650 2609

South East of Scotland Deanery
Welcome to the South East Region of NHS Education for Scotland, based at the Lister in Edinburgh. The Lister first opened its doors in the 1960s as the Edinburgh medical community's memorial to Lord Lister, the founder of antiseptic surgery and previous Professor of Surgery at the University of Edinburgh. Originally pivotal to the delivery of postgraduate medical education of doctors from Edinburgh, Scotland and beyond, the Lister is now the home of the SE Region of NES. Conveniently situated in the centre of Edinburgh, the Lister is also a popular venue, offering training and meeting facilities for use by professionals from South East Scotland and further afield. Maintaining close contact with GP and Dental colleagues, the University of Edinburgh and the medical Royal colleges, to-day the Lister represents the spirit of co-operation so necessary for the effective management and provision of training to healthcare professionals. NES South East Region looks forward to hosting an increasing number of multi-disciplinary events.

Postgraduate Dean

Biography
Base: South East Deanery
West Port, Edinburgh
PA: June Lawson
Phone: 0131 650 2613
Email: June.Lawson@nes.scot.nhs.uk
Professor Rowan Parks

Associate Postgraduate Dean (Surgical Specialties)

Biography
Base: South East Deanery
PA: June Lawson
Phone: 0131 650 2613
Email: June.Lawson@nes.scot.nhs.uk

Training Programme Director:
Mr Sai Prasad
Consultant Cardiac Surgeon
Royal Infirmary of Edinburgh
Secretary: Ms Kathryn Chambers
Phone: 0131 242 3902
Email: sai.Prasad@luht.scot.nhs.uk

SAC liaison Member:
Mr Steve Hunter
Consultant Cardiac Surgeon
James Cook University Hospital
Middlesborough

Members of Training Committee:
Mr Sai Prasad, TPD
Mr Steve Hunter, SAC
Mr Ali Jilaihawi, Chairman
Mr John Butler, PGD representative, GJNH, Glasgow
Mr Kenneth MacArthur, Royal Sick Children’s Hospital
Mt Keith Buchan, PGD representative, GJNH, Glasgow

Faculty for Education & Training: In addition to above;
Mr R R Jeffrey, Aberdeen Royal Infirmary
Mr Alan Kirk, GJNH, Glasgow
Mr Ian Colquhoun, GJNH, Glasgow
Mr Geoff Berg, GJNH, Glasgow
Mr Fraser Sutherland, GJNH, Glasgow
Mr S Craig, GJNH, Glasgow
Mr Mark Danton, Royal Sick Children’s Hospital
Mr William Walker, Royal Infirmary of Edinburgh

Rotation Information

Early Years: ST1 & ST2:
Expected rotation arrangements for this programme are:
• West Of Scotland – Golden Jubilee National Hospital Heart & Lung Centre
• Cardio-thoracic Intensive Care - 4 Months
• Cardiac Surgery – 6 months
• General Surgery – 4 months – If no MRCS Part A or B
• Vascular Surgery – 4 months -TBC
• Thoracic surgery – 6 months
• Cardiac surgery – 6 months

Educational Opportunities:

1. Delivery of Curricular Objectives set out in ISCP
2. Delivery of Specialty specific generic standards set out by GMC
3. Minimum of 4 surgical theatre sessions to get technical competence
4. One out patient session/ wk
5. One study session
6. Dedicated teaching session – Friday PM and release to day courses
7. Fully funded and supported Study leave by South East Deanery
8. Regular appraisals and assessments by allocated Educational and clinical supervisors
9. Research and Audit support

Wet Labs and Simulation facilities are available on site.
Supervision by excellent faculty of dedicated trainers and allocation of mentors

Intermediate:

• ST3 - Year: Either at Royal Infirmary of Edinburgh or Aberdeen Royal Infirmary
• ST4 – Paediatric Surgery: 6 months post - Royal Sick Children’s Hospital, Glasgow
• ST4 – Thoracic Surgery: 6 months post – Golden Jubilee National Hospital, Glasgow
• ST5 – Adult Cardiac Surgery – 12 months post - Golden Jubilee National Hospital, Glasgow
• ST6 – Adult Cardiac Surgery – 12 months post - Golden Jubilee National Hospital, Glasgow
• ST7 & ST8 – Adult Cardiac / Thoracic surgery – Royal Infirmary of Edinburgh

Exceptions to rotation arrangements: Paediatric Surgery can be optional and Thoracic surgery block could be offered for 12 months.

• Advanced Fellowship in VATS – Available at Royal Infirmary of Edinburgh for trainees in Final stage of training who are wishing to pursue career in Thoracic surgery

Trust Generic/Specialty Information

• Short paragraph on the department for each Trust – how many beds, facilities and education
• Statistics
• Services provided to patients – bullet point list
• Department staff breakdown – numbers only no names!
• Timetable information
• Teaching programmes
2. West of Scotland Regional Heart and Lung Centre, Golden Jubilee National Hospital:

Location:
Department of Cardiothoracic Surgery,
Beardmore Street,
Clydebank,
West Dunbartonshire,
G81 4HX

No. Surgeons who undertake adult heart surgery: 11
Departmental Staff:
Training Grade surgeons (middle grade): 3(ST5, ST6 & T7) LAT – T3
Career Grade surgeons (middle grade): 9
Foundation Year 2: 2
Clinical nurse practitioners: 6
Surgical Care practitioners: 3
ITU’s x 2: 2 Short stay – 11 beds, long stay-11 beds
HDU beds: 22
Consultant Anaesthetists: 11

About the unit
The West of Scotland Regional Heart and Lung Centre, based in Clydebank, is a dedicated unit for planned and urgent operations and procedures. One of the largest heart and lung centres in the UK, it combines existing heart services at the Golden Jubilee with cardiothoracic (heart and lung) services previously provided by Glasgow’s Western and Royal Infirmaries and thoracic (lung) services from Hairmyres Hospital in Lanarkshire. Spread over three floors of the Golden Jubilee National Hospital, facilities at the centre all include seven theatres and four cardiac catheterisation (cath) labs - special x-ray rooms for the diagnosis and treatment of blood vessel blockages around the heart. The new centre is also home to three of our national services - the Scottish Advanced Heart Failure Service (including the heart transplant unit), the Scottish Pulmonary Vascular Unit and the Scottish Adult Congenital Cardiac Service.

Services provided

Adult Cardiac Surgery – One of the Largest Centres in UK
1. All aspects inclusive of CABG surgery – On & Off Pump, Mitral Valve repair, Valve surgery, Complex Redo Cardiac Surgery, Aortic Aneurysm surgery.
2. Heart Transplantation
3. Heart failure programme- VAD programme , ECMO service

Thoracic Surgery – One of the Largest centres in UK.
1. Pulmonary resection, Sleeve resections, Endo - Bronchial stenting,
2. Oesophageal surgery,
3. Minimally Invasive Thoracic surgery - VATS procedures
Adult Congenital Cardiac Surgery

| Adult Cardiac Surgery       | CABG: 702                          |
|                            | CABG + Valve: 192                   |
|                            | CABG + Valve + Other: 72           |
|                            | Valve: 340                         |
|                            | Valve + Others: 40                 |
|                            | **Total: 1349**                    |

| Thoracic Surgery           | Major Procedures including Lung Resections: 479 cases |
|                           | **Total Numbers including the staging procedures: 1500 cases** |
| VAD programme             | 12 S in last calendar year          |
| Transplant Programme      | 10 transplants in last calendar year |

**Operations for 3 years ending March 2009:** Extracted from: Heart surgery in the United Kingdom, Care Quality commission: http://heartsurgery.cqc.org.uk/

Out of 2978 coronary bypass surgery cases carried out at Golden Jubilee, 72.2% used the left internal mammary.

Post-operative length of stay: Out of 2978 patients admitted to Golden Jubilee, 8.53% stayed longer than 14 days.

Educational Opportunities: Please refer to: www.STRaCTS.co.uk

3. Royal Hospital for Sick Children:

Dalnair Street
Yorkhill
Glasgow
G3 8SJ

The Royal Hospital for Sick Children has 266 inpatient beds, 12 daycase beds, and handles approximately 90,000 out-patients, 15,000 in-patients, 7,300 daycases and 35,000 A&E attendances every year. The hospital provides care for newborn babies right up to children around 13 years of age.

Within the community Yorkhill Division provides a wide range of services from four Child Development Centres at - Bridgeton Health Centre, Possilpark Health Centre, Drumchapel Health Centre and the new Southbank Centre in the Gorbals. These centres run various clinics dealing with speech, hearing, emotional or behavioural problems, as well as organising immunisation programmes in local schools. A wide range of staff provide these services, including consultant community Paediatricians, psychologists, occupational therapists, speech & language therapists and school nurses amongst others.

In its role as a major academic institution, the Division is home to a number of University departments as well as internationally acclaimed research groups. The Division’s significant commitment to the teaching and training of new doctors, nurses, midwives and other health professionals, ensures that highly trained NHS staff are ready to care for the mothers and children of tomorrow.
Consultant Surgeons: 4  
Service Provision:

<table>
<thead>
<tr>
<th>Congenital Cardiac Surgery</th>
<th>320 Cardiac Cases including closed and Open heart procedures</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECMO Service</td>
<td>15-20 cases per year with 2 LVADs done during last year</td>
</tr>
</tbody>
</table>

Royal Infirmary of Edinburgh:

About the unit

The cardiothoracic unit at the Royal Infirmary of Edinburgh is a specialised supra-regional service, which moved to its current, state of the art facility in 2003. It is a tertiary referral centre, dealing with patients from all over Scotland. The Royal Infirmary of Edinburgh is nationally and internationally well renowned for offering excellent training in cardio-thoracic surgery.

The Edinburgh Cardio-Thoracic Unit provides a regional service for approximately 1.5 million populations in Lothian, Fife and Border Areas. The work of the unit is carried out at the Royal Infirmary Cardiothoracic Unit, which deals with all open-heart surgery, surgery of the great vessels, trauma and thoracic surgery including pulmonary and some oesophageal surgery.

The Royal Infirmary (RIE) is a major teaching hospital on a green field site in the South East of the city of Edinburgh built in 2003. It comprises 25 wards, 869 beds, and 24 operating theatres, and is equipped with modern theatre and critical care equipment and monitoring. Within the main building is a dedicated, multidisciplinary, 5 theatre day surgery complex. The hospital provides for most specialities and is the centre for:

- General surgery with a focus on the upper GI tract
- Vascular surgery
- Hepato-biliary and Transplant medicine and surgery
- Cardiac and Thoracic surgery
- Elective and trauma Orthopaedics surgery
- Neonatology
- Obstetrics & Gynaecology
- Cardiology
- Renal Medicine
- Sleep Medicine
- Regional major Accident and Emergency centre.

There is a Combined Assessment Unit which takes unselected GP or direct emergency referrals, and from A&E. CAU includes the Dept of Liaison Psychiatry and the Scottish Poisons Bureau and Treatment Centre. There are full supporting Laboratory and Diagnostic Radiology Services (including CT, MR, Ultrasound and NM and PET scanning will be available in 2008). There is a full range of lecture theatres, a library and AV facilities.

University of Edinburgh:

The University of Edinburgh was established in 1582 and is one of the largest in the United Kingdom located on a number of prominent sites in Scotland’s capital city.
is Scotland’s premier research university, graded within the top six multi-faculty British Universities in the last national research assessment exercise (90 percent of its academic staff were in units rated 4, 5 or 5*). It has 3,000 academic staff, over 16,000 undergraduate and over 4,000 postgraduate students and an annual expenditure of over £261M for teaching and research. The University is organised into 3 Colleges: Humanities and Social Science, Medicine and Veterinary Medicine, Science and Engineering. Edinburgh University School of Medicine is located within the premises of Royal Infirmary.

**Services provided**


Thoracic Surgery: Pulmonary Resection including Complex procedures, VATS programme inclusive of VATS Lobectomy which is internationally well renowned, Lung volume reduction, Oesophageal surgery, Endo-bronchial stenting.

Surgeons who undertake adult heart surgery: 6
Thoracic surgery: 4 consultants

**Departmental Staff: Current**

Training Grade surgeons (middle grade): 2  
Career Grade surgeons (middle grade): 10  
Advanced training VATS Fellow: 1  
Foundation Year 1 – Thoracic surgery: 3  
Foundation Year 2 – Cardiac surgery: 6  
Clinical nurse practitioners – 4  
Surgical Care practitioners - 4  
Bed capacity:  
ITU/ HDU beds: 22, Wards: 24  
Consultant Anaesthetists: 11

**Service Provision: Outcomes: 2009 – 2010**

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Number</th>
<th>Mortality</th>
</tr>
</thead>
<tbody>
<tr>
<td>CABG</td>
<td>507</td>
<td>1.7%</td>
</tr>
<tr>
<td>CABG &amp; VALVE</td>
<td>113</td>
<td>3.01%</td>
</tr>
<tr>
<td>Valve replacement</td>
<td>258</td>
<td>2.3%</td>
</tr>
<tr>
<td>*Others</td>
<td>62</td>
<td>10.1%</td>
</tr>
<tr>
<td>Total</td>
<td>940</td>
<td>2.67%</td>
</tr>
</tbody>
</table>

*Complex, high risk and emergency procedures

**Rates of survival after all cardiac surgery:** Extracted from: Heart surgery in the United Kingdom, Care Quality commission: http://heartsurgery.cqc.org.uk/  
Operations for 3 years ending March 2009: 2794 operations performed : Actual survival rate 96.7%

2008/09 alone: Actual survival rate 97.3% as expected (1050 operations, with expected survival rate range 94.7 - 98.1%)
Rates of survival after aortic valve replacement operations

Operations for 3 years ending March 2009: 438 operations performed: Actual survival rate 98.2%

2008/09 alone: Actual survival rate 98.9% as expected (184 operations, with expected survival rate range 92.7 - 100.0%)

Rates of survival after heart bypass (CABG) operations

Operations for 3 years ending March 2009: 1598 operations performed: Actual survival rate 98.0%

2008/09 alone: Actual survival rate 98.1% as expected (588 operations, with expected survival rate range 96.0 - 99.5%)

Out of 1598 coronary bypass surgery cases carried out at Royal Infirmary of Edinburgh, 94.12% used the left internal mammary.

Post-operative length of stay

Out of 1598 patients admitted to Royal Infirmary of Edinburgh, 9.39% stayed longer than 14 days.

Thoracic surgery: 2009-2010

<table>
<thead>
<tr>
<th>Lung Resections</th>
<th>200</th>
</tr>
</thead>
<tbody>
<tr>
<td>Video Assisted Major lung resections</td>
<td>70</td>
</tr>
<tr>
<td>Other procedures</td>
<td>850</td>
</tr>
</tbody>
</table>

A total number of 1100 thoracic surgical procedures were performed. Of these 200 were Lung resections. During this period, 70 video assisted major lung resections were performed. Since the commencement of programme, 600 major lung resections were performed using video as an assist.

3. North of Scotland Cardiothoracic Surgery Unit, Aberdeen Royal Infirmary

Provides adult cardiac and thoracic surgical services in the north of Scotland including Orkney and Shetland. Located at the Aberdeen Royal Infirmary Foresterhill site, the unit also has satellite outpatient facilities at Ninewells Hospital, Dundee and Raigmore Hospital, Inverness.

Services provided

Adult Cardiac Surgery
Thoracic Surgery
Location: North of Scotland Cardiothoracic Surgery Unit (NOS-CTS), Aberdeen Royal Infirmary, Foresterhill,
Aberdeen, 
AB25 2ZN

No. Surgeons who undertake adult heart surgery: 4

**Departmental Staff:**  
Training Grade surgeons (middle grade): 1(ST3), 3 – LAT ST2, LAT ST1posts  
Career Grade surgeons (middle grade): 3  
Foundation Year-2: 2  
Clinical nurse practitioners: 3  
Surgical Care practitioners: 3  
ITU/ HDU: 11 beds

**Rates of survival after all cardiac surgery:** Extracted from: Heart surgery in the United Kingdom, Care Quality commission: http://heartsurgery.cqc.org.uk/  
Operations for 3 years ending March 2009: 1766 operations performed  
2008/09 alone: Actual survival rate 97.9% as expected (613 operations, with expected survival rate range 94.6 - 98.8%)  
Rates of survival after heart bypass (CABG) operations:  
Operations for 3 years ending March 2009: 1118 operations performed: Actual survival rate 98.3%  
2008/09 alone: Actual survival rate 98.6% as expected (366 operations, with expected survival rate range 95.2 - 99.8%)  
Out of 1118 coronary bypass surgery cases carried out at Aberdeen Royal Infirmary, 93.11% used the left internal mammary.  
Out of 1118 patients admitted to Aberdeen Royal Infirmary, 9.57% stayed longer than 14 days.

Rates of survival after aortic valve replacement operations:  
Operations for 3 years ending March 2009: 228 operations performed  
2008/09 alone: Actual survival rate 96.4% as expected (84 operations, with expected survival rate range 89.6 - 100.0%)

**Teaching**

**Royal Infirmary of Edinburgh:** Co-ordinator: Mr S Prasad  
1. MDT meetings – Cardiac & Thoracic surgery – Every Friday  
2. Educational Meetings: Friday 2pm  
3. Mortality & Morbidity meetings: 2nd Friday  
4. Grand Rounds – Wednesday  
5. Honeyman- Gillespie lectures – Once a month

**West of Scotland Regional Heart and Lung Centre, Golden Jubilee National Hospital:**  
Co-ordinator: Mr Alan Kirk  
1. Educational Meetings: Friday: 1:30pm  
2. Mortality & Morbidity meetings:  
3. MDT meetings: Adult Cardiac – Valvular Heart Disease, Coronary Heart Disease & Thoracic surgery. Heart Failure and Transplantation meetings  
4. WET LAB: Facilities exists at Golden Jubilee National hospital for a one to one and independent sessions
Royal Sick Children’s Hospital, York Hill, Glasgow: Co-ordinator: Mr K MacArthur
MDT meetings

Regional Teaching: Faculty for cardio-thoracic Education & Training

WET Lab: 1) Hands on sessions with a dedicated faculty of Consultant surgeons – 4 monthly intervals
2) Facilities exists at Golden Jubilee National hospital for a one to one and independent sessions

Future Goals: Establishment of all day reaching programme once every 3 months, Mock VIVA’s for Exams

Supra regional: Additional Training opportunities: Surgical simulation, Paris and Hamburg Thoracic surgical courses

Success denominators:

Strengths:
1. Achievements:
   • 5 trainees have been appointed as consultants within the last 3 years
   • 1 trainee has successfully completed training – RITA-G and awaiting award of CCT and entry in to specialist register.
   • 1 trainee received CESR- Article 14- entry in to Specialist register
2. Success of these trainees is primarily due to consultant educational supervisors who are known to be excellent trainers.
3. Regular teaching and academic sessions are available at all centres inclusive of wet labs for hands on experience and video conferencing between all centres.

Rotation of trainees between centres and placements to achieve training in specific competencies set out in curriculum

Support to courses and funding by the Deanery and programme:

Cardiac Surgery:
1. Birmingham Review course
2. Coronary artery anastomosis work shop - Liverpool
3. Covedien course – Off Pump/ Mitral valve
4. CALS
5. Sorin- Wet Lab – AVR/MVR & CABG
4. Learning through Experience – STR/ SPR training days- Scottish Training programme – Wet Labs & Presentations - 3 monthly
5. Royal College courses – Basic, intermediate & Advanced
6. Care of Critically Ill
7. South East Deanery Lead Generic skills courses

Thoracic surgery:

VATS ENDO SURGERY- Ethicon – Hamburg
Advanced VATS course – Paris

- Information on teaching provided
- Regional Programmes
South West Deanery

This is an 8-year training programme in **Cardiothoracic Surgery** starting at ST1 aimed at doctors who can demonstrate the essential competences to enter this level of training. The programme is designed to support training for a CCT in Cardiothoracic Surgery. Details of essential competences and qualifications are detailed in the MMC person specification for Cardiothoracic Surgery at ST1, which is available from [www.mmc.nhs.uk](http://www.mmc.nhs.uk).

The anticipated outcome subject to satisfactory progression is completion of CCT in Cardiothoracic Surgery.

The ST1 and ST2 years are based in Plymouth and the ST3 to ST8 year programme is rotated between Bristol and Plymouth according to the trainee requirements and choice.

**The Bristol component** of the training programme is based at the Bristol Royal Infirmary, the Bristol Royal Sick Children’s Hospital and the new £65 million Bristol Heart Institute. There are strong links with the BHI research group which has £54 million worth of grants from 160 separate grant funders.

This is a large University Medical Centre performing 1700 adult hearts, 300 children’s cardiac and 800 general thoracic surgical cases per year.

We have 2 Professors of Cardiac Surgery, 2 Readers and 9 full-time NHS Consultants. There are 13 middle grade Cardiothoracic Surgeons (4 NTNs 2 LATs, 5 Clinical Fellows and 2 Associate Specialists).

Particular areas of specialisation include off-pump CABG (Extensive national and international trials published and a great deal of off-pump exposure to trainees), minimal-access mitral and aortic valve surgery and clinical research. The new Bristol Children’s Hospital has extensive experience with all congenital surgery and performs over 300 cardiac procedures per year with trainees having part of their training dedicated to this speciality. Thoracic Surgery is supported by a dedicated VATS lobectomy service and the unit provides regional teaching days (stapling techniques etc)

**The Plymouth component** of the training programme is based at Derriford Hospital, Plymouth which has, in the last 4 years relocated to the £40 million Sir Terence Lewis Building - The South West Cardiothoracic Centre, performing 1300 adult cardiac and 600 general thoracic procedures annually.

There are 5 full time cardiac consultants, 1 cardiothoracic consultant and 2 full time thoracic consultants.

Particular areas of specialisation include minimal access mitral and aortic valve surgery, a large TAVI programme with trainees involved in the running of the programme and exposure to catheter based skills in theatre, AF surgery, all forms of aortic surgery and endovascular stenting. We have a large MECC (minimal extracorporeal circuit) programme with training days in perfusion for the trainees.
Minimally invasive oesophageal surgery (MIO) has now relocated from Exeter to Derriford.

We have strong ties with the Peninsula Medical School and developed the Surgical Nurse Practitioner programme for the South West with collaboration with the school of nursing, freeing up time for junior doctors to spend more time on training and less on service delivery.

**Rotation Information**

The ST1 year will consist of 6 months of General Surgery and 6 months of Vascular Surgery. The ST2 year will consist of 12 months in Cardiothoracic Surgery – covering all aspects of preoperative assessment (clinics), operating sessions in theatre, Intensive Care Unit rotation and postoperative ward management and on call (1:9). During this time you will have an assigned educational and clinical supervisor and be expected to be part of the firm based team.

The ST3+ years will be spent on rotation between Bristol and Plymouth.

**Teaching**

Both the Severn (Bristol) and Peninsula (Plymouth) Deanery are dedicated to training and development and there is a programme of courses, meeting and lab training to maximise your training time whilst still being involved in the clinical management of patients.

Both deaneries have websites that provide useful information for the various specialities and the requirements for trainees:

[www.severndeanery.nhs.uk](http://www.severndeanery.nhs.uk) and [www.peninsuladeanery.nhs.uk](http://www.peninsuladeanery.nhs.uk)

At ST1/ST2 year there are monthly training days with compulsory attendance with access to state of the art library and simulation suite in the new Terence Lewis Building which houses the cardiothoracic department. Departmental teaching is weekly with monthly half day within the directorate for clinical governance. The Peninsula has compulsory monthly regional training days for ST1/2 years on all disciplines of surgery

At ST3 and above, regional training days are held every 2 months for audit, teaching and to discuss curriculum projects and common research interests.

There are 4 wetlab courses for the Southwest trainees run throughout the year at the combined regional training days. Wetlab sessions cover coronary artery bypass grafting, aortic valve procedures, mitral surgery, thoracic stapling course, haemostatic products in theatre and cardiopulmonary bypass simulation

Mock examinations are planned for trainees planning to sit their final part III exam. Consultants from both units, not involved with CTh examinations, will provide mock exams for trainees from both units.

All trainees are allocated £550.00 per annum for study leave and are encouraged to regularly submit and present at regional, national and international meetings.
Consultants from both units are involved with undergraduate training at a national level:

- Basic skills course CTh RCSE
- Intermediate skills course RCSE
- Birmingham review course
- SCTS University
- Professional development course

The teaching and training in cardiothoracic surgery is followed as set out in the ISCP website

Social

The SouthWest of England is a popular place to visit for its proximity to the beautiful Devon and Cornwall beaches and coves and the moors of Dartmoor and Exmoor. Social ‘downtime’ is important and most staff have active outdoor pursuits which are available on our doorstep – sailing, surfing, climbing and mountain biking.

London is within 1.5 hours from Bristol and 2 hours from Exeter by train. Explore more of the SouthWest at [www.visitsouthwest.co.uk](http://www.visitsouthwest.co.uk)
Wales

Deanery Rotation Base for ST1-2 Cardiothoracic Surgery:

<table>
<thead>
<tr>
<th>HOSPITAL</th>
<th>LOCATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>University Hospital of Wales</td>
<td>Cardiff</td>
</tr>
</tbody>
</table>

The strategic aim of the Wales Deanery is to commission, quality assure and support the education and training of trainees, hospital doctors, GPs, dentists and DCPs in Wales. This includes the development of innovative models of education and training delivery, building training capacity and leading on postgraduate medical and educational research. Further information at [http://www.walesdeanery.org](http://www.walesdeanery.org).

There are currently 630 established training grade posts Cardiff and Vale UHB working across 6 hospitals: University Hospital of Wales (UHW), University Hospital Llandough (UHL), Cardiff Royal Infirmary (CRI), Whitchurch, Barry, St Davids and Rookwood. The majority of trainees are based on the two main hospital sites, UHW and UHL. Cardiff and Vale UHB has a well earned reputation as a centre of excellence for clinical care, medical education and research. Established in 2009, following the reorganisation of health services within Wales the UHB is one of the largest and most diverse healthcare providers in the UK.

There are strong links with the Wales College of Medicine, Cardiff University and this partnership places us at the leading edge of training and education of healthcare professionals as well as research and development into new approaches for healthcare. Cardiff and Vale UHB is unique in Wales in its role as a teaching centre for new doctors, nurses and therapists working under the supervision of some of the best clinicians in their field. This association is a vital part of the UHB's ability to provide its specialist services.

The University Hospital of Wales is a large teaching hospital situated within the city of Cardiff. Working here will enable you to learn from some of the foremost clinicians in their fields within a culture of innovation, education and research. The hospital provides secondary care to the population of north and east Cardiff and tertiary level care in nephrology, neurosciences, haematology, paediatrics and neonatology, cardiothoracic and critical care.

The Wales School for Surgery is responsible for core training in Wales and higher surgical training across ten specialties. In addition to traditional training in medical diagnostic, therapeutic and communication skills, as a craft specialty we need to ensure that generic and specialist skills are acquired. Training progresses from the acquisition of basic generic surgical skills in core years to specialty specific skills learned during subsequent dedicated training periods. The final stage of training needs to prepare the young surgeon for the rigors of clinical practice at consultant level. For more information on training in Wales, visit [http://www.doctorstrainingwales.tv](http://www.doctorstrainingwales.tv).
ST1/ST2 Cardiothoracic Surgery

Overview of programme:

The new programme at ST 1 & 2 extends the already established Welsh specialty training programme in Cardiothoracic Surgery to offer seamless training over an 8 year period, from post-registration through to completion of CCT. Trainees appointed to the new ST1 programme will spend their first two years at the University Hospital of Wales in Cardiff, followed by entry into the Consortium Training programme at ST3, offering training opportunities at both the Welsh Cardiothoracic Centres in Cardiff and Swansea, and subspecialty exposure to paediatric cardiac surgery and transplantation in the West Midlands Deanery.

The ST1 year will involve 6 months of General Surgery and 6 months of Cardiothoracic Surgery (Cardiff). ST2 will offer 12 months of cardiothoracic surgery at Cardiff, including a dedicated period in cardiac intensive care. During this time, trainees will be expected to participate in educational activities including the core surgical teaching programme, local specialty teaching sessions / wetlabs, regional training days, and national training courses and meetings.

The University Hospital of Wales, Cardiff

The University Hospital of Wales is a University Teaching Hospital affiliated with Cardiff University and its School of Medicine. The Cardiothoracic Unit serves a population of 1.4 million around Southeast Wales, and undertakes up to 1000 adult cardiac procedures per year, through 3 dedicated cardiothoracic theatres, 8 Intensive care beds, 5 High Dependency beds, and 37 ward beds. The unit undertakes all types of adult cardiac surgery including off-pump coronary surgery, complex mitral valve surgery, minimally invasive cardiac surgery & major surgery on the thoracic aorta including endovascular procedures and surgery for some adults with congenital heart disease. There is no transplantation service. The Unit also undertakes over 400 major thoracic surgical procedures per year, including a major proportion of VATS procedures (lobectomies etc), lung volume reduction surgery, endobronchial stenting and minimally invasive surgery for chest wall deformities.

4 NTNs – 1xST1, 1xST2, 2 x ST3-8

- **Cardiac** – One training post at ST3-8; no formal out-of-hours on-call
- **Thoracic** – One training post at ST3-8; no formal out-of-hours on-call

Middle grade: 4 SAS, 6 CF/LAS; Full shift rota
4 Nurse Practitioners/Case Managers
2 Surgeons’ Assistants, 1 Trainee Surgeons’ Assistant

Core training grades: 1 FP2, 2 CT1/2, ST1 & 2 - Partial shift (participate in H@N)

**Job Plan**

In line with revised curriculum requirements, trainees will attend weekly: one outpatient clinic, at least three theatre sessions, MDTs, consultant ward rounds, and core teaching activity. Ample exposure will be available for perioperative management of acute and elective cardiothoracic surgical patients within critical care
and ward environments. Supervised operative exposure to conduit harvest, sternotomy, thoracotomy, VATS procedures, etc, supported by a full portfolio of ISCP based assessments. Trainees will be expected to undertake regular audits, participate in departmental research activities and teaching of other medical and allied healthcare staff/students.

**The Welsh Cardiothoracic Surgical Training programme**

The Joint Wales and West Midlands Training Consortium offers a modern, comprehensive, fit-for-purpose training programme for Cardiothoracic Surgery, drawing upon the strengths of both Welsh centres, and a number of centres from the West Midlands Deanery. In particular, the consortium offers the full spectrum of broad general as well as specialist cardiothoracic training that can be tailored to an individuals training requirements, whilst maintaining a geographic base.

The Welsh centres offer comprehensive exposure to adult cardiac surgery including a substantial (25%) OPCAB component, valve replacement & repair, arrhythmia surgery, minimal access aortic valve surgery, aortic root (including homograft & valve-sparing surgery), arch, thoraco-abdominal, and endovascular thoracic aortic intervention. Exposure to trans-arterial and trans-aortic aortic valve therapies is available at both Welsh centres, and opportunities for trainees to acquire catheter skills are being developed. Insight into specialties allied to cardiothoracic surgery is encouraged through structured placements in areas including interventional cardiology, electrophysiology, heart failure therapies, echocardiology and cardiac imaging, perfusion sciences, respiratory medicine and upper GI surgery. A good range of general adult and paediatric thoracic surgery ensures a strong foundation in this specialty, which can be developed to an advanced level through the consortium training programme as required. Sub-specialty training in Transplantation, paediatric cardiac, advanced aortic, and ventricular support therapy is also provided through the consortium.

Combined with a pioneering training infrastructure that capitalises on training opportunities, and supported by a robust mechanism for assessment and feedback through the ISCP, trainees on the Welsh Cardiothoracic Rotation have the opportunity to experience training fit for the 21st Century. More specifically, this includes:

- European Working Time Directive compliance, with NTNs functioning ‘outside’ non-training, service-orientated rotas and shifts. NTNs are therefore supernumerary to service requirements and can take full benefit of training opportunities.

- Full engagement with the Integrated Surgical Curriculum Programme (ISCP) providing a framework for structured training, assessment, and supervision.

- Access to Wet-lab training, regional training days, and journal clubs. This includes mandatory attendance at the Royal Society of Medicine Cardiothoracic Section, and the Annual SCTS Meeting.
o Attendance at Royal College of Surgeons’ Cardiothoracic Training Courses incorporated into educational agreements and resourced through study leave budget.

o Integrated training exposure to allied specialties including anaesthesia, critical care, respiratory medicine, oncology, interventional cardiology, echocardiography, electrophysiology, heart failure therapies, device therapies, cardiac imaging, and endovascular therapy.

o Exposure to advance thoracic surgery, Paediatric/congenital surgery, and transplantation via OOPE with the West Midlands Rotation.

**All Wales & West Midlands Cardiothoracic Training Programme (ST3-8)**

**ST3:**
- Cardiac Surgery - Morriston (4 months)
- Integrated Specialties – UHW (4 months)
- Thoracic Surgery – UHW (4 months)

**ST4:**
- Thoracic surgery - UHW

**ST5 or ST6**
- Cardiac Surgery – Morriston

**ST6 or ST5**
- Paediatric cardiac surgery (6 Mo) - BCH
- Transplantation & thoracic aortic surgery (6 Mo) – QEH

**ST7 & 8**
- Bespoke training. Options might include:
  1. **Paediatric / Congenital surgery** – supported application for GOSH/BCH programme
  2. **Adult Cardiac surgery** – UHW/Morriston with options to develop experience in OPCAB & mitral repair.
  3. **Adult Cardiothoracic Surgery** - Morriston/UHW
  4. **Adult Thoracic Surgery** – currently OOPE at HoEH, then UHW

Further information is available from Mr Dheeraj Mehta, Training Programme Director, at dheeraj.mehta@wales.nhs.uk.
West Midlands

Deanery Rotation Base(s)

<table>
<thead>
<tr>
<th>HOSPITAL</th>
<th>LOCATION</th>
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<tbody>
<tr>
<td>Heart of England NHS Foundation Trust (Heartlands Hospital)</td>
<td>Birmingham</td>
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<tr>
<td>University Hospital Birmingham NHS Foundation Trust (QE Hospital)</td>
<td>Birmingham</td>
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Deanery information

The West Midlands has a population of 5.3 million, with a rich mix of cultures and an ethnically diverse population. The population spans the high number of young people in the city of Birmingham to the older population in the more rural parts of the region such as Herefordshire.

Birmingham is a progressive, multi cultural modern city benefiting from an ambitious city centre redevelopment plan. There are excellent transport links, being 1½ hours by train to London, 1 hour to Manchester and 1½ hours to Bristol. Birmingham International Airport flies to over 100 destinations and is 15 min drive from the city centre. The city offers a wide range of social, cultural and entertainment facilities including a vibrant city centre, the Symphony Hall, home of the Birmingham Symphony Orchestra, the Birmingham Royal Ballet and the International Convention Centre. It boasts the largest cinema complex in the UK and the Bullring shopping centre has recently been redeveloped into the largest shopping complex in Europe. Birmingham is also home to the National Exhibition Centre, three premiereship football clubs and the Edgbaston Test Cricket Ground. There are three universities, excellent schools and a number of other institutions offering further education and vocational training.

The West Midlands Workforce Deanery is the second largest deanery in the country with a wide range of specialty and training posts offered. The foundation programme in the West Midlands was one of the first to be established in the UK and has maintained its strong drive of innovation and excellence.

Rotation Information

ST1 / ST2

The aim of these 2 years is to give the trainee the basic skills, knowledge and clinical experience required for a surgical career with specific emphasis on cardiothoracic training.

The first year (ST1) will be based at Heartlands Hospital and includes 3 four month attachments. The second year (ST2) will be spent at University Hospital Birmingham again rotating thro 3 four month training posts.
<table>
<thead>
<tr>
<th>Specialty</th>
<th>Location</th>
<th>Duration</th>
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<tbody>
<tr>
<td>ST1 General Surgery</td>
<td>Heartlands Hospital Vascular</td>
<td>4 months</td>
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<tr>
<td>ST1 General Surgery</td>
<td>Heartlands Hospital Colorectal</td>
<td>4 months</td>
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<tr>
<td>ST1 Thoracic Surgery</td>
<td>Heartlands Hospital</td>
<td>4 months</td>
</tr>
<tr>
<td>ST2 Intensive care medicine</td>
<td>University Hospital Birmingham</td>
<td>4 months</td>
</tr>
<tr>
<td>ST2 Trauma &amp; Orthopaedics</td>
<td>University Hospital Birmingham</td>
<td>4 months</td>
</tr>
<tr>
<td>ST2 Cardiothoracic Surgery</td>
<td>University Hospital Birmingham</td>
<td>4 months</td>
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Trainees will be expected to participate in local educational programmes. In addition there are regional core surgical training educational programmes as well as a regular regional cardiothoracic educational programme. The educational programmes provide anatomy, surgical skills, wet lab, clinical case based and didactic teaching. All trainees will be expected and supported to participate in ongoing audit within their department. Within each department and hospital and in association with the Birmingham universities there are extensive research opportunities available and all trainees will be encouraged and supported to take advantage of these opportunities.

Training will be delivered according to the Intercollegiate Surgical Curriculum Project [www.iscp.ac.uk](http://www.iscp.ac.uk). All trainees will have an assigned educational supervisor as well as a mentor for pastoral advice and support. Assessment will be competency based and all trainees will have an Annual Review of Competence Progression (ARCP).

**ST3 – ST 8**

The West Midlands Cardiothoracic Training Programme offers comprehensive training thro 18 Deanery funded and educationally approved cardiothoracic training posts across 6 hospitals:

- **University Hospital Birmingham:** academic adult cardiac surgery programme including intrathoracic transplantation, complex aortic surgery and ventricular assist devices as well as a very active civilian and military trauma practice.
- **Heart of England Hospital:** dedicated adult thoracic unit practicing all aspects thoracic surgery including complex thoracoscopic, tracheal and chest wall surgery.
- **Birmingham Children’s Hospital:** largest neonatal and infant paediatric cardiac surgical programme in UK. Tertiary referral centre for all aspects of paediatric cardiac surgery including ECMO. The unit also undertakes regular adult congenital heart surgery at UHB.
• **University Hospital of Coventry and Warwick**: combined adult cardiac and thoracic programme undertaking all aspects of cardiothoracic surgery including complex mitral and aortic surgery as well as all aspects of thoracic surgery

• **New Cross Hospital, Wolverhampton**: combined adult cardiac and thoracic programme including aortic, mitral and minimally invasive and robotic surgery

• **University Hospital of North Staffordshire**: combined adult cardiac and thoracic programme.

The programme is administered by a regional Training Committee that has been established for over a decade and has a reputation for robust training assessments and commitment to the quality of training. Training within departments is also supported by the monthly teaching programme overseen by the Training Director. The commitment to training goes beyond the region. A number of national teaching courses were established by and are run by faculties that include a strong West Midlands presence (The Birmingham Review Course, The DSTS, The RCS Cardiac Skills Courses, The Birmingham Professional Development Course).

The training programme is individualised for each trainee and does not follow a fixed pattern. During the first 4 years of the programme generic training is offered, this includes at least 1 year of thoracic surgery and 6 months of paediatric surgery. In the final 2 years trainees are helped to pursue training in areas of specialisation or specific interest either within the region or as OOPE (this has included Hong Kong, USA, Edinburgh, Newcastle, Papworth, and Middlesborough).

The strength of clinical training is mirrored by that of academic training. In 2007 2 Walport Lecturers were appointed following a successful application by the cardiac surgical departments at the Queen Elizabeth and Birmingham Children’s Hospitals in conjunction with The University of Birmingham to the Department of Health. In addition there are 2 trainees who are clinical lecturers at the University of Birmingham. There are 4 further research fellows at QEH, BCH and Heartlands Hospitals.

Over the past 15 years 28 national trainees have completed the training programme, 27 have achieved consultant posts in the United Kingdom (incl. adult cardiac, cardiopulmonary transplantation, thoracic, cardiothoracic and paediatric cardiac surgery) and 1 in Canada. In the last 3 years the McCormack medal for the best performance at the FRCS Part 3 examination has been awarded twice to West Midland trainees.

The West Midlands has also contributed significantly to collaborative training. The Birmingham Children’s Hospital shares the National Paediatric Training post for senior trainees with Great Ormond Street Hospital. In addition the Children’s Hospital has helped to train surgeons from Australia, New Zealand, South Africa, Germany, Canada and the United States and continues to do this. More recently the Surgical Department at QEH and the Heartlands Hospitals have established an international link with Prince of Wales Hospital, Hong Kong involving the rotation of trainees.

For further information please contact Tim Jones, Regional Training Programme Director  [tim.jones@bch.nhs.uk](mailto:tim.jones@bch.nhs.uk)
Wessex Deanery

This is a 8 year training programme in Cardiothoracic Surgery starting at ST1 aimed at doctors who can demonstrate the essential competences to enter this level of training. The programme is designed to support training for a CCT in Cardiothoracic Surgery. Details of essential competences and qualifications are detailed in the MMC person specification for Cardiothoracic Surgery at ST1 which is available from www.mmc.nhs.uk.

The anticipated outcome subject to satisfactory progression is completion of CCT in Cardiothoracic Surgery.

The programme is based in the following hospital in the Wessex Deanery:

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<tr>
<th>HOSPITAL</th>
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<tr>
<td>University Hospital Southampton</td>
<td>Southampton</td>
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Wessex Deanery is a relatively small deanery with a defined geographical area which does lead to there being a single unit of application. In the majority of cases, successful candidates will be asked to preference their choice of location for either one or two years. Placements will be based, as normal, on individual training and educational needs. Please note that applications are to the Wessex Deanery as a whole. This may mean that you may be allocated to any geographic location within the Wessex Deanery depending on training needs.

The Wessex Deanery covers a geographical area from Basingstoke in North Hampshire to Dorchester in West Dorset and the Isle of Wight to the South. This is a spread of approximately 65 miles North to South and 76 miles East to West. The Wessex Deanery serves a population of around 2.8 million people.

The Wessex Deanery is part of NHS South of England, comprising South Central, South East Coast and South West Strategic Health Authorities. The Wessex Deanery currently covers the health communities of South Wiltshire, Dorset, and Hampshire and the Isle of Wight. The Wessex Deanery is responsible for the training of some 2,500 trainees.

Rotation Information

The ST1 year will consist of 3 four month attachments in Intensive Care Medicine, General Surgery and Trauma and Orthopaedic Surgery. The ST2 year will consist of the first six months in Vascular Surgery and the second six months in Cardiothoracic Surgery. The ST3+ years will be spent at University Hospital Southampton (UHS).

Trust Generic/Specialty Information

The primary strength of the unit has been based on clinical and operative exposure. In both adult and congenital cardiac surgery, this would include the full range of standard and advance operative techniques. These include off pump surgery, the use of minimal extracorporeal circulatory support (MEC), minimally invasive surgery, valve repair and sparing surgery, and aortic surgery including thoraco-abdominal aneurysm surgery; Surgery for routine and complex congenital conditions such as
AVSDs, TGAs and HLHS are routinely undertaken. In addition, at both sites transcatheter aortic valve implantation (TAVI) is undertaken for high-risk aortic valve patients. SGH is a national referral centre for Fontan conversion surgery. There is also a comprehensive thoracic surgery programme with 5 dedicated thoracic surgeons offering a full range of exposure. This programme provides comprehensive training in minimally invasive thoracic surgery, including thoracoscopic lung resection, with an opportunity to have exposure to oesophageal surgery at University Hospital Southampton. There is also a consortium set up for training in cardiothoracic surgery between the Wessex & Oxford Deaneries.

- There are currently 4 adult cardiac surgeons, 1 adult/ congenital surgeon; 2 congenital cardiac surgeons and 5 thoracic surgeons based at Southampton;
- The training ethos is strong within the consortium with approximately 52% of the cardiac surgery cases undertaken by trainees at SGH in 2011-2012 12-month period.
- The academic profile of the Consortium is now very strong. There are 2 professors of cardiac surgery. The ex president for the SCTS and chairman of the SAC are members of the consortium. There has been 2 MDs, 2 PhDs awarded and over 130 publications in peer-reviewed journals within the last 3 years.
- On call at University Hospital Southampton. 5 approved posts. 7 trust fellows at SpR level. 1 in 12 hybrid rota. 1:12 residential on-call. The unit is EWTR and Band 1a compliant

**Teaching**

- There is a wet and dry lab facility, which is used for formal teaching twice a year. The dry lab facility is accessible by trainees on 24/7 basis at Southampton.
- There are weekly MDT meeting to discuss complex cases. All clinical activity is stopped so trainees can attend. There is also a weekly TAVI MDT meeting where trainees may attend if available. There is also a weekly grand rounds.
- There is a monthly didactic/ interactive curriculum based teaching. This alternates between Oxford and Southampton and the whole curriculum is covered over a 2-year period. This programme has been running since January 2010.
- Frequent informal tutorials and mock exams are arranged for trainees approaching the FRCS-CTh exam.

**Study and Training**
The primary aim of all posts is the training programme developed and there is a region wide syllabus and minimum standards of education agreed by all Trusts within the rotation.
The Deanery is committed to developing postgraduate training programmes as laid down by GMC, Colleges and Faculties and by COPMED - the Postgraduate Deans Network. At local level college/specialty tutors work with the Programme Director and Directors of Medical Education in supervising these programmes. Trainees will be expected to take part in these programmes (including audit) and to attend meetings with their nominated educational supervisor.

All posts within the training programme are recognised for postgraduate training by the General Medical Council (GMC) in accordance with their standards for training.

Study leave is granted in accordance with Deanery/Trust policy and are subject to the maintenance of the service.

All posts have a service element and the following covers the majority of duties. There will be minor variations in different hospitals but the list is aimed at covering the majority of duties:

1. Supervise, monitor and assist the House Officer (F1) in the day-to-day management of in-patients, in posts with an attached F1.
2. Liaise between nurses, F1 and F2 Doctors, patients, relatives and senior medical staff.
3. Attend and participate in ward rounds as timetabled.
4. Attend outpatient clinics.
5. Attend operating lists.
6. Take part in rostered emergency work including delivery suite.
7. Dictate discharge summaries.
8. Study for higher examination and maintain continued professional development.
9. Attend weekly educational and multidisciplinary sessions.
10. Undertake audit and patient safety projects at various times throughout the rotations.
11. Teach medical students as directed.
12. Co-operate with members of the personnel department when monitoring hours of work and other personnel issues.
13. Attend induction in each hospital or new department
14. Comply with all local policies including dress code, annual and study leave

Curriculum
The teaching and training in cardiothoracic surgery is followed as set out in the ISCP website

Teaching

- Local teaching programme available at each trust.
- Regional teaching programme first Friday of the month rotating between units.
  3 year rolling programme to include mandatory courses within curriculum.