



SCTS Board of Representatives (BORS) Combined Unit Reports

2024

Introduction

The principal aim of the SCTS Board of Representatives (BORS) is to promote and share quality improvement in cardiothoracic surgery, as well as provide an effective line of communication between each cardiothoracic surgical unit in the United Kingdom & Ireland and the SCTS Executive.

It is in this regard that we have produced the 2024 SCTS BORS combined unit reports, which document the major events that have occurred in each of the fifty units throughout the United Kingdom & Ireland and, more specifically, examples of best practice that have been introduced over the past year. This will allow other units to integrate these ideas locally to improve the quality of care for cardiothoracic surgical patients. In addition, the report gives us an idea of the major plans that each of the units is contemplating in the year ahead.

Through the annual submission of the unit reports, we are also able to ascertain the level of consultant cardiothoracic surgical staffing within each unit to help with workforce planning and highlight potential opportunities of employment in the country. In addition, this year we have sought information on sustainability at the end of each report, and we thank those who have added these details.

In short, the enclosed SCTS BORS combined unit reports document the recent changes in cardiothoracic surgical practice throughout the United Kingdom & Ireland and the consultant surgical workforce employed to deliver it.

We thank you all for your contributions to this report and the Society.

With best wishes



Narain Moorjani
President



Rana Sayeed
Honorary Secretary



Sridhar Rathinam
Communications Secretary

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England

1. Basildon University Hospital

Unit Representatives Alessia Rossi (Cardiac), Hatam Naase (Thoracic)

Consultant Cardiothoracic Surgeons

Name	Specialty	Locum / Substantive	Subspecialty Interest
Hasnat Khan	Cardiac	Substantive	Mitral valve surgery
Arvind Singh	Cardiac	Substantive	Aortic surgery
Sudhir Bhusari	Cardiac	Substantive	Mitral valve surgery
Alessia Rossi	Cardiac	Substantive	Minimally invasive cardiac surgery
Alberto Albanese	Cardiac	Substantive	Mitral valve surgery
Antonio Bivona	Cardiac	Locum	Aortic surgery
Ahmed Shazly	Cardiac	Locum	Aortic Surgery
Sanjeevan Sriskandarajah		Locum	General cardiac surgery
Tariq Minhas	Thoracic	Substantive	VATS
Hatam Naase	Thoracic	Locum	VATS
Abdullah Badran	Thoracic	Locum	VATS

Notable events over past 12 months

- Appointed 2 CNS for Cardiac and 1 for Thoracic , in total we have 4 CNS for cardiac and 2 for thoracic
- Building up minimally invasive mitral valve program
- Restarted the Essex CTC Wet Lab program in cardiac and thoracic recognized by the RCS
- Started AF Surgical ablation, (Convergent procedure)
- Transcatheter Edge to Edge MVRRepair in collaboration with the Cardiologists
- ANGIOVac system used for removal of tricuspid vegetation (First case in UK)

Examples of practice introduced over past 12 months

- Collegiate review of complex and subspecialty cases for cardiac and thoracic
- Introduction of thoracic MDM internal with collaboration and attendance of pathologist
- WATCH pathway introduced for inpatient CABG

- Virtual ward/remote monitoring with ORTUS platform for elective patients
- Introduced dedicated team for monitoring patients with I.E.
- Formulated an educational video for pre-op cardiac patients to introduce them to the CTC and the expected pathway for surgery

Plans for the year ahead

- Fit4surgery trial for thoracic
- RESTORE trial for pectus excavatum
- The FARSTER CARE trial
- Expand the minimally invasive program introducing RAT for AVR

Sustainability

Have you implemented any sustainable approaches on the below checklist? If not, please detail your plans.

Anaesthesia

Local/regional anaesthesia - **Y/N** Plans: Yes for both Thoracic and Cardiac Surgery

Conservative oxygen therapy - **Y/N** Plans:

Total Intra-Venous Anaesthesia - **Y/N** Plans:

Nitrous oxide use and waste - **Y/N** Plans:

Inhalational anaesthesia - **Y/N** Plans:

Reusable anaesthetic equipment - **Y/N** Plans: bronchoscopes

Preparing for Surgery

Reusable PPE and textiles - **Y/N** Plans:

Water and energy consumption - **Y/N** Plans: NA

Unnecessary clinical interventions - **Y/N** Plans: NA

Intraoperative Equipment

Review and rationalise: instruments and equipment - **Y/N** Plans:

Reuse: reusables, hybrid and remanufactured - **Y/N** Plans: NA

Reduce: remove unnecessary equipment - **Y/N** Plans:

Replace: switch to low-carbon alternatives - **Y/N** Plans: NA

After the Operation

Recycling and appropriate waste segregation - **Y/N** Plans:

Repair and maintenance - **Y/N** Plans:

Power off - **Y/N** Plans:

2. Birmingham Children's Hospital

Unit Representative

NAHP Representative

Trust Appointed Doctor (TAD) Representative

Phil Botha

Lynda O'Connor

Adrian Crucean

Consultant Cardiothoracic Surgeons

Name	Specialty	Locum / Substantive	Subspecialty Interest
Phil Botha	Congenital	Substantive	
Tim Jones	Congenital	Substantive	
Natasha Khan	Congenital	Substantive	
Nigel Drury	Honorary (Academic)	Substantive	
Joseph George	Congenital	Locum	

Notable events over past 12 months

- Newly qualified surgical care practitioner
- New trainee SCP appointed
- Waiting list increased considerably

Examples of practice introduced over past 12 months

- Cardiac arrest prevention pathway on PICU

Plans for the year ahead

- Attempt to re-establish pre-pandemic activity levels
- Increase access for ACHD cases, remains very limited

3. Queen Elizabeth Hospital, Birmingham

Unit Representatives Eshan Senanayake (Cardiac), Babu Naidu (Thoracic)

Deputy Representative Moninder Bhabra

Consultant Cardiothoracic Surgeons

Name	Specialty	Locum / Substantive	Subspecialty Interest
Babu Naidu	Thoracic	Substantive	Emphysema , Pectus
Maninder Kalkat	Thoracic	Substantive	Airway, Chest wall
Hazem Fallouh	Thoracic	Substantive	Diaphragm , Emphysema
Vanessa Rogers	Thoracic	Substantive	
Ashvini Menon	Thoracic	Substantive	Navigational Bronchoscopy
Robin Wotton	Thoracic	Locum	
Stephen Rooney	Cardiac	Substantive	Mitral, Transplant
Moninder Bhabra	Cardiac	Substantive	Mitral, Transplant
Ahmed Ashoub	Cardiac	Substantive	CAD, Transplant
Aaron Ranasinghe	Cardiac	Substantive	Transplant, Aortic
Eshan Senanayake	Cardiac	Substantive	Aortic, Transplant
Ivan Yim	Cardiac	Substantive	Mitral, Transplant
Chris Bond	Congenital	Locum	ACHD, Transplant

Notable events over past 12 months

- Strategy Day with attendee from all parts of the Thoracic surgery pathway contributing
- Appointment of Mr. Ivan Yim as a 3rd mitral surgeon
- Appointment of Mr. Chris Brond as a dedicated ACHD surgeon in collaboration with the Birmingham Children's Hospital, to deal with the growing ACHD population needing surgery

- Expansion of the heart and lung transplant programme, with all surgeons performing transplantation

Plans for the year ahead

- Robotic Surgery
- Enhanced recover unit for cardiac surgical patients
- Working on the surgeon of the week model
- 10 degree fridge for lung transplantation

Sustainability

Have you implemented any sustainable approaches on the below checklist? If not, please detail your plans.

Anaesthesia

Local/regional anaesthesia – Yes, for selected patients

Conservative oxygen therapy - N

Total Intra-Venous Anaesthesia - N

Nitrous oxide use and waste - Y/N Plans: NO is occasionally used in cardiac transplants

Inhalational anaesthesia - Y/N Plans:

Reusable anaesthetic equipment - Y/N Plans:

Preparing for Surgery

Reusable PPE and textiles – N, no plans to limit use

Water and energy consumption – N, no plans to limit use

Unnecessary clinical interventions - Y/N Plans: NA

Intraoperative Equipment

Review and rationalise: instruments and equipment - Y

Reuse: reusables, hybrid and remanufactured - Y/N Plans:

Reduce: remove unnecessary equipment -Y/N Plans: Y

Replace: switch to low-carbon alternatives - Y/N Plans: no plans

After the Operation

Recycling and appropriate waste segregation - Y/N Plans: Y

Repair and maintenance - Y/N Plans: Y

Power off - Y/N Plans: Y

4. Victoria Hospital, Blackpool

Unit Representative **Bejoy Philip (Thoracic)**
 David Rose (Cardiac)

Consultant Cardiothoracic Surgeons

Name	Specialty	Locum / Substantive	Subspecialty Interest
Carmelo Raimondo	Cardiac	Substantive	Aortic, CAD, TAVI
David Rose	Cardiac	Substantive	Minimally Invasive Cardiac
Greg Laskawski	Cardiac	Substantive	Aortic / Minimally Invasive Cardiac
Manoj Purohit	Thoracic	Substantive	Minimally Invasive Thoracic
Joe Zacharias	Cardiothoracic	Substantive	Minimally Invasive Cardiac
Ali Zamir Khan	Thoracic	Substantive	Minimally Invasive Thoracic
Antony Walker	Cardiac	Substantive	Mitral MIS
Nidal M Bittar	Cardiothoracic	Substantive (Aortic Lead)	Aortic
Bejoy Philip	Thoracic	Locum	Minimally Invasive Thoracic
Mohamed Elsaegh	Cardiac	Locum	
Gillian Hardman	Cardiac	Locum	

Plans for the year ahead

- Hoping to get the surgical robot this year

5. Royal Sussex County Hospital, Brighton

Unit Representative Damian Balmforth

Deputy Representative Uday Trivedi

Consultant Cardiothoracic Surgeons

Name	Specialty	Locum / Substantive	Subspecialty Interest
Uday Trivedi	Cardiac	Substantive	Mitral
Jonathan Hyde	Cardiac	Substantive	Aortic
Michael Lewis	Cardiac	Substantive	Aortic
Ishtiaq Ahmed	Cardiac	Substantive	Mitral
Damian Balmforth	Cardiac	Substantive	Aortic
Azhar Hussain	Cardiac	Substantive	Mitral

Notable events over past 12 months

- Locum consultant appointed as substantive (A Hussain)

Examples of practice introduced over past 12 months

- Introduction of Endoscopic Vein Harvesting
- Introduction of AMDS for TAAD

Plans for the year ahead

- Planned relocation of Cardiac ITU to new building

Sustainability

Have you implemented any sustainable approaches on the below checklist? If not, please detail your plans.

Anaesthesia

Local/regional anaesthesia - Y: We are regularly performing chest wall blocks as part of a multimodal approach to pain relief in cardiac surgery

Conservative oxygen therapy - Y: Our newly acquired Draeger ventilators include an efficiency flow meter so we can gauge the degree of waste gases and make adjustments as appropriate.

Total Intra-Venous Anaesthesia - Y: Approximately 40% of our cardiac anaesthetists use a TIVA technique. Those that continue to opt for inhalational technique do so on clinical grounds based on the medium quality evidence linking isoflurane with enhanced ischaemic preconditioning of the myocardium

Nitrous oxide use and waste - N: Nitrous oxide is no longer used anywhere on our unit. Indeed, we no longer have the gas pipes for it.

Inhalational anaesthesia - Y/N Plans: See above response to TIVA. Of note desflurane is no longer stocked due to the scale of the environmental impact

Reusable anaesthetic equipment - N: No plans to introduce reusable airway equipment due to historical prion disease risks and limited availability of appropriate sterilisation.

Preparing for Surgery

Reusable PPE and textiles - N: No plans to date

Water and energy consumption - N: no plans to date

Unnecessary clinical interventions - Y: We don't perform unnecessary clinical interventions.

Intraoperative Equipment Review and rationalise: instruments and equipment - N: no plans to date

Reuse: reusables, hybrid and remanufactured - N: no plans to date

Reduce: remove unnecessary equipment -N: We do not stock any unnecessary equipment

Replace: switch to low-carbon alternatives - N: no plans to date

After the Operation

Recycling and appropriate waste segregation - Y: Clear bag recycling occurs for appropriate non-contaminated plastics and cardboard

Repair and maintenance - Y/N Plans:

Power off - Y/N Plans

6. Bristol Heart Institute

Data as of 2023

Unit Representative Cha Rajakaruna

Consultant Cardiothoracic Surgeons

Name	Specialty	Locum / Substantive	Subspecialty Interest
Cha Rajakaruna	Cardiac	Substantive	Aortic, mini-AVR, MIDCAB, Convergent ablation
Franco Ciulli	Cardiac	Substantive	Mitral, Mitraclip, MIDCAB, Convergent ablation
Gianni Angelini	Cardiac	Substantive	Academic
Mark Yeatman	Cardiac	Substantive	Pericardial
Raimondo Ascione	Cardiac	Substantive	Mitral, academic
Eltayeb Mohamed Ahmed	Cardiac	Substantive	Aortic
Hunaid Vohra	Cardiac	Substantive	Mitral, minimally invasive aortic/mitral

Notable events over past 12 months

- Introduction of ERU (Enhanced Recovery Unit) on cardiac ward to facilitate ITU/HDU throughput
- Referapatient platform introduced for cardiac and thoracic surgery
- Bristol commissioned for respiratory ECMO in adult patients

Examples of practice introduced over past 12 months

- Enhanced Recovery Unit practice for predictable recovery patients in cardiac surgery
- Morning multidisciplinary board round prior to medical ward round

Plans for the year ahead

- Introduction of patient navigator
- Introduction of *Every Minute Matters* – improving patient stay and discharge management

Sustainability

Have you implemented any sustainable approaches on the below checklist? If not, please detail your plans.

Anaesthesia

Local/regional anaesthesia - Y Plans: yes for select minimally invasive cases

Conservative oxygen therapy - N Plans: not in cardiac

Total Intra-Venous Anaesthesia - N Plans: not in cardiac

Nitrous oxide use and waste - Y Plans: No nitrous and manifolds taken away

Inhalational anaesthesia - Y Plans: sevo used, deso off formulary

Reusable anaesthetic equipment - N Plans: not used and no plans, previous attempts but pushed back to single use as cheaper in short term

Preparing for Surgery

Reusable PPE and textiles - N Plans: not aware of plans

Water and energy consumption - N Plans: no access to the commissioned

Unnecessary clinical interventions – Y Plans:

Intraoperative Equipment

Review and rationalise: instruments and equipment – Y Plans:

Reuse: reusables, hybrid and remanufactured - Y/N Plans: only very few reusables – light handles

Reduce: remove unnecessary equipment -Y Plans:

Replace: switch to low-carbon alternatives - Y Plans: sutures and loose prep used

After the Operation

Recycling and appropriate waste segregation - Y Plans:

Repair and maintenance - Y Plans:

Power off - Y/N Plans: have to keep emergency ventilator on but in other elective theatres switched off

7. Bristol Royal Hospital for Children

Unit Representatives Shafi Mussa & Andrew Parry

Consultant Cardiothoracic Surgeons

Name	Specialty	Locum / Substantive	Subspecialty Interest
Andrew Parry	Congenital	Substantive	Neonatal
Massimo Caputo	Congenital	Substantive	Academic
Serban Stoica	Congenital	Substantive	Ross procedure / VSRR
Shafi Mussa	Congenital	Substantive	Neonatal / ACHD aortic

Notable events over past 12 months

- Massimo Caputo currently on sabbatical

Sustainability

Have you implemented any sustainable approaches on the below checklist? If not, please detail your plans.

In discussion with trust

Anaesthesia

Local/regional anaesthesia - Y Plans:

Conservative oxygen therapy - Y Plans:

Total Intra-Venous Anaesthesia - Y Plans:

Nitrous oxide use and waste - Y Plans: nitrous taken away

Inhalational anaesthesia - Y Plans: as with adults, sevo used and des off formulary

Reusable anaesthetic equipment - N Plans: no plans

Preparing for Surgery

Reusable PPE and textiles - Y Plans: reusable theatre hats introduced

Water and energy consumption - N Plans: no automated pedals, and still use water for scrubbing

Unnecessary clinical interventions – Y Plans:

Intraoperative Equipment

Review and rationalise: instruments and equipment - Y Plans:

Reuse: reusables, hybrid and remanufactured - Y Plans:

Reduce: remove unnecessary equipment -Y Plans:

Replace: switch to low-carbon alternatives - Y Plans:

After the Operation

Recycling and appropriate waste segregation - Y Plans:

Repair and maintenance - Y Plans:

Power off - N Plans: temperature control on risk register but anaesthetic machines switched off

8. Bristol Royal Infirmary, Thoracic Surgery

Unit Representative Doug West
Deputy Representative Eveline Internullo

Consultant Cardiothoracic Surgeons

Name	Specialty	Locum / Substantive	Subspecialty Interest
Douglas West	Thoracic	Substantive	VATS
Eveline Internullo	Thoracic	Substantive	Uniportal VATS, EBUS, navigational bronchoscopy
Rakesh Krishnadas	Thoracic	Substantive	VATS
Igor Saftic	Thoracic	Substantive	VATS
Laura Socci	Thoracic	Substantive	
Stelios Gaitanakis	Thoracic	Locum	

Notable events over past 12 months

- Appointment of a new substantive consultant (LS)
- Expansion of the unit with a new full time locum consultant (SG), also new senior clinical fellow, nurse specialist and support posts.
- Roll out of the TLHC programme regionally leading to increased cancer activity
- Start of a formal training link with the Government of Mauritius
- Continuing roll out of regional CNS-led follow up after lung cancer

Examples of practice introduced over past 12 months

- Start of the thoracic robotic programme in 2023
- Start of the Navigational Bronchoscopy Programme

Plans for the year ahead

- Implementation of bronchoscopic cryobiopsy
- Second robot to come online in 2024/25

Sustainability

Have you implemented any sustainable approaches on the below checklist? If not, please detail your plans.

Anaesthesia

Local/regional anaesthesia – Yes: regional anaesthesia encouraged but used to compliment GA rather than instead of GA in thoracic anaesthesia

Conservative oxygen therapy – Yes: reduced O2 also regarded as reduction in O2 free radicals so benefits are to patient and planet.

Total Intra-Venous Anaesthesia - Yes: gaining popularity but still not standard practice in UHBW thoracic anaesthetic team

Nitrous oxide use and waste – Yes: pipeline completely decommissioned

Inhalational anaesthesia – used by those not using TIVA

Reusable anaesthetic equipment – No. Plans: Work stream in place at our Children's hospital to look at this aspect

Preparing for Surgery

Reusable PPE and textiles – No. Plans: currently trialling re-usable hats and warm up jackets

Water and energy consumption – Yes: Energy reduction and net zero program. Motion sensor lights in theatre are planned within 6 months

Unnecessary clinical interventions – No. Plans: None

Intraoperative Equipment

Review and rationalise: instruments and equipment – No. Plans: none

Reuse: reusables, hybrid and remanufactured – No. Plans: none

Reduce: remove unnecessary equipment –No. Plans: none

Replace: switch to low-carbon alternatives – Yes: mainly with CHP (combined heat and power unit delivering efficient green(er) energy

After the Operation

Recycling and appropriate waste segregation – Yes.

Repair and maintenance - Y/N Plans:

Power off - Yes: program for theatre 'shut down' implemented

9. Royal Papworth Hospital, Cambridge

Unit Representatives **Shakil Farid (Cardiac)**
Aman Coonar (Thoracic)

Consultant Cardiothoracic Surgeons

Name	Specialty	Locum / Substantive	Subspecialty Interest
David Jenkins	Cardiac	Substantive	PTE & Transplant
Narain Moorjani	Cardiac	Substantive	Mitral
Marius Berman	Cardiac	Substantive	Transplant
Ravi De Silva	Cardiac	Substantive	Aortic
Stephen Large	Cardiac	Substantive	General
Choo Ng	Cardiac	Substantive	PTE
John Taghavi	Cardiac	Substantive	PTE & Mitral
Shakil Farid	Cardiac	Substantive	Aortic
Steven Tsui	Cardiac	Substantive	PTE & Transplant
Frank Wells	Cardiac	Substantive	Mitral
Jason Ali	Cardiac	Substantive	Transplant
Aman Coonar	Thoracic	Substantive	Uniportal VATS, and robotic surgery
Adam Peryt	Thoracic	Substantive	Uniportal VATS, and robotic surgery
Guiseppe Aresu	Thoracic	Substantive	Uniportal & subxiphoid VATS, robotic surgery, and lung transplant
Pradeep Kaul	Cardiac	Substantive	Transplant
Hassiba Smail	Cardiac	Locum	Transplant

Notable events over past 12 months

- Aortic Isthmus Symposium took place in Clare College, Cambridge November 2023- International Faculty comprising of vascular and cardiac surgeons attended the symposium.
- Acute Aortic Syndromes study day took place November 2023 in Heart Lung Research Institute - Widely attended by multiple specialities nationally and regionally.
- Our aortic team have recommenced the thoracoabdominal programme in association with the vascular surgeons from Cambridge University hospitals.
- Our complex aortic team have achieved a landmark 200 frozen elephant trunk cases at the beginning of the year.
- Transplant team has started the EVLP Ex Vivo Lung perfusion programme for lung transplantation.
- Transplant webinar – Cardiothoracic Transplantation Assessment (run by Emma Matthews) with Key Speaker Paul Lincoln
- Centre for multicentre Fit4Surgery study – actively recruiting

Examples of practice introduced over past 12 months

- We have been routinely using the Ascyrus Medical Dissection Stent (AMDS), which is a novel hybrid prosthesis allowing replacement of the ascending aorta, sealing of the distal anastomotic entry tear and stabilisation of the true lumen.
- We have introduced an enhanced recovery unit (ERU) which has improved the patient pathway following cardiac surgery.
- Robotic surgery using the Versius system, CMR
- Advanced Practice Cardiothoracic Critical Care Physiotherapist role

Plans for the year ahead

- Increase the number of joint thoracoabdominal cases working closely with the vascular surgeons.
- Reintroduce 3 pump lists.
- Progress further in robotic surgery
- Various quality improvement projects to ensure quality of care
- Implement cryotherapy
- NAHP day at 2025 Annual meeting on NAHP within research and pain management after CT surgery (postponed from 2024 meeting)
- Thoracic Physiotherapy network to collaborate with SCTS
- Cardiac Physiotherapy network to collaborate with SCTS
- Transplant Physiotherapy network to collaborate with SCTS
- Physiotherapy course (x1 or 2)
- Physiotherapy webinar (x1 or 2)
- Gain more NAHP members within the trust
- Gain representative from each NAHP we have at RPH:
 - ALERT
 - ANP
 - SCP

- Scrub Nurse
- Physio
- OT
- Dietician
- SALT
- Nurse
- ODP
- Radiographer

Sustainability

Have you implemented any sustainable approaches on the below checklist? If not, please detail your plans.

Anaesthesia

Local/regional anaesthesia – Y: Expand pain team and service

Conservative oxygen therapy - N

Total Intra-Venous Anaesthesia - Y

Nitrous oxide use and waste – N: No specific plan

Inhalational anaesthesia – N: No specific plan

Reusable anaesthetic equipment – Y

Preparing for Surgery

Reusable PPE and textiles – N: use disposable

Water and energy consumption – Y

Unnecessary clinical interventions – Y: ensure investigations are indicated

Intraoperative Equipment

Review and rationalise: instruments and equipment – Y: develop robotic instruments, considering implementing powered staplers, obtaining cryotherapy

Reuse: reusables, hybrid and remanufactured - Y: maintain reusable instruments including open, thoracoscopic, and robotics

Reduce: remove unnecessary equipment -Y: rationalise the instruments

Replace: switch to low-carbon alternatives - N: none at present but there are plans for the future.

After the Operation

Recycling and appropriate waste segregation - Y: maintain reusable instruments

Repair and maintenance - Y: ensure equipment and instruments are well maintained

Power off - Y: unnecessary equipment being turned off after the operation. Ventilation and Lights switched off at night, apart from Emergency Areas.

10. University Hospital Coventry and Warwickshire

Unit Representative Thomas Barker

Consultant Cardiothoracic Surgeons

Name	Specialty	Locum / Substantive	Subspecialty Interest
Thomas Barker	Cardiac	Substantive	Mitral valve
Uday Dandekar	Cardiac	Substantive	Aortic
Jain Bhaskara-Pillai	Cardiac	Substantive	Aortic
Sendhil Balasubramanian	Cardiac	Substantive	Aortic
Massimiliano Codispoti	Cardiac	Substantive	Mitral
Sion Jones	Cardiac	Locum	
Antonio Martin- Ucar	Thoracic	Substantive	Single-port access VATS, robotic
Luis Hernandez	Thoracic	Substantive	Single-port access VATS, robotic
Maria Kolokotroni	Thoracic	Substantive	Trauma

Notable events over past 12 months

- Consolidation of thoracic robotic surgery.
- Appointment of locum consultant cardiac surgeon

Plans for the year ahead

- Introduction of sutureless aortic valve
- Endoscopic vein harvest

Sustainability

Have you implemented any sustainable approaches on the below checklist? If not, please detail your plans.

Currently no plans.

11a. Castle Hill Hospital, Hull

Cardiac Surgery

Unit Representative Alex Cale
Deputy Representative Dumbor Ngaage

Consultant Cardiothoracic Surgeons

Name	Specialty	Locum / Substantive	Subspecialty Interest
Alex Cale	Cardiac	Substantive	Aorto-Vascular Surgery
Mahmoud Loubani	Cardiac	Substantive	Cardiac/Convergent AF Ablation
Martin Jarvis	Cardiac	Substantive	Aorto-Vascular Surgery
Dumbor Ngaage	Cardiac	Substantive	Mitral/Minimally Invasive Cardiac Surgery
David Zicho	Cardiac	Substantive	Aorto-Vascular/ Minimally Invasive Cardiac Surgery
John Massey	Cardiac Surgeon	Substantive	Mitral/Minimally Invasive Cardiac Surgery
Ben Omoregbee	Cardiac	Locum	Mitral/Minimally Invasive Cardiac Surgery

Notable events over past 12 months

- Sad demise of Mr Mubarak Chaudhry-Consultant Cardiothoracic Surgeon
- Locum appointment of Mr Benjamin Omoregbee as Consultant Cardiac Surgeon
- Substantive appointment of Mr John Massey as Consultant Cardiac Surgeon

Examples of practice introduced over past 12 months

- Hob Enhanced Recovery pathway to improve patient flow and improve productivity

Plans for the year ahead

- To commence the regional aortic dissection rota in Collaboration with Northern General Hospital, Sheffield in September 2024
- Introduction of Consultant of the Week Model in September 2024
- Establishing the Mitral Team and commence Minimal Access Mitral Surgery.

11b. Castle Hill Hospital, Hull

Thoracic Surgery

Unit Representative Vasileios Tentzeris

Deputy Representative Suhail Qadri

Consultant Cardiothoracic Surgeons

Name	Specialty	Locum / Substantive	Subspecialty Interest
Suhail Qadri	Thoracic	Sub	Mesothelioma, surgery following neoadjuvant therapy, Major lung resections (Clinical Lead)
Vasileios Tentzeris	Thoracic	Sub	Navigational Bronchoscopy Airway management Robotic Surgery LVRS and Endobronchial Valves LASER surgery (Clinical Governance Lead and CTS Junior Force Coordinator)
Michael Gooseman	Thoracic	Sub	Trauma Robotic Surgery
Adnan Raza	Thoracic	Locum	General Thoracic Surgery

Notable events over past 12 months

- Establishment of Lung Health Check to our peripheral hospitals, as well.
- Retirement of Michael Cowen

Examples of practice introduced over past 12 months

- Navigational Bronchoscopy protocols initiative

Plans for the year ahead

- Expansion of robotic surgery
- Robotic navigational Bronchoscopy
- 5th Consultant colleague in plans

12a. Leeds General Infirmary (Cardiac Surgery)

Unit Representative Betsy Evans
Deputy Representative Sotiris Papaspyros

Consultant Cardiothoracic Surgeons

Name	Specialty	Locum / Substantive	Subspecialty Interest
Betsy Evans	Cardiac	Substantive	Mitral
Pankaj Kaul	Cardiac	Substantive	Aortic
Kalyana Kavangula	Cardiac	Substantive	Aortic
Antonella Ferrara	Cardiac	Substantive	Mitral
Sotiris Papaspyros	Cardiac	Substantive	Clinical Lead
Walid Elmahdy	Cardiac	Substantive	Aortic

Notable events over past 12 months

- Development of service towards minimal access aortic surgery
- Growth of surgical practice with creation of seventh surgical consultant (locum appointment to be made in Aug 2024)
- Registered site for PRIMARY trial
- Introduction of frozen elephant trunk procedures

Examples of best practice introduced over past 12 months

- Business case for saphenous venous harvest using endoscopic technique accepted
- Expansion of role of ward ANP role to run weekly wound review OPA clinic with plan to expand to facilitate outpatient review of follow up patients
- Aortic dissection clinic and international aortic surgery course, aortovascular MDT

Plans for the year ahead

- Business case for saphenous venous harvest using endoscopic technique accepted
- Expansion of role of ward ANP role to run weekly wound review OPA clinic with plan to expand to facilitate outpatient review of follow up patients
- Expand team by one surgeon

Sustainability

Have you implemented any sustainable approaches on the below checklist? If not, please detail your plans.

Anaesthesia

Local/regional anaesthesia - Y/N Plans: Yes we use local anaesthetic sternal blocks as adjunct to pain relief perioperatively. Implemented this change one year ago

Conservative oxygen therapy - Y/N Plans: Yes variable across the group of anaesthetists
Total Intra-Venous Anaesthesia - Y/N Plans: Yes about 50% implemented across the group
Nitrous oxide use and waste - Y/N Plans: Nitrous oxide no longer used
Inhalational anaesthesia - Y/N Plans: Yes - especially for congenital patients
Reusable anaesthetic equipment - Y/N Plans: No except laryngoscope handle, monitoring devices and infusion pumps.

Preparing for Surgery

Reusable PPE and textiles - Y/N Plans: Not currently
Water and energy consumption - Y/N Plans: Not currently
Unnecessary clinical interventions - Y/N Plans: Minimised

Intraoperative Equipment

Review and rationalise: instruments and equipment - Y/N Plans: Yes all sets are minimised
Reuse: reusables, hybrid and remanufactured - Y/N Plans: Yes reduction on reusables
Reduce: remove unnecessary equipment - Y/N Plans: Yes all removed
Replace: switch to low-carbon alternatives - Y/N Plans: Unsure
Operative lights have all been upgraded to LED versions

After the Operation

Recycling and appropriate waste segregation - Y/N Plans: Yes all waste is separated
Repair and maintenance - Y/N Plans: All instruments are repaired when possible
Power off - Y/N Plans: Yes

12b. Leeds General Infirmary (Congenital Surgery)

Unit Representative Giuseppe Pelella

Deputy Representative Carin van Doorn

Consultant Cardiothoracic Surgeons

Name	Specialty	Locum / Substantive	Subspecialty Interest
Carin van Doorn	Congenital	Substantive	
Giuseppe Pelella	Congenital	Substantive	
Imre Kassai	Congenital	substantive	
Ali Al-Sarraf	Congenital	Locum	
Faraz Baig	Congenital	Locum	

Notable events over past 12 months

- Osama Jaber left for Dubai. Recruitment for replacement difficult due to lack of senior congenital cardiac surgeons globally
- Ongoing lack of capacity in ICU continues to affect post COVID recovery

Examples of best practice introduced over past 12 months

- Ozaki procedure introduced with good early results
- Introduction of initial total interventional palliation for as a 'bridge to decision making' for borderline candidates

Plans for the year ahead

- Recover surgical capacity by introducing dedicated paediatric cardiac intensive care bed and expanding early recovery program
- Recruitment to substantive consultant posts

13. St James's University Hospital, Leeds

Unit Representative Richard Milton (Thoracic) Saleem Jahangeer (Cardiac)

Deputy Representative Gerard Fitzmaurice

Consultant Cardiothoracic Surgeons

Name	Specialty	Locum / Substantive	Subspecialty Interest
Richard Milton	Thoracic	Substantive	Trauma, Robotic surgery, Training and education, metastectomy
Nilanjan Chaudhuri	Thoracic	Substantive	Surgery for emphysema, navigational bronchoscopy
Alex Brunelli	Thoracic	Substantive	Segmentectomies, PROMS
Peter Tcherveniakov	Thoracic	Substantive	Endobronchial treatment, surgery for emphysema, training and education
Elaine Teh	Thoracic	Substantive	Robotic
Joshil Lodhia	Thoracic	Substantive	Innovation, digital pathways & databases
Marco Nardini	Thoracic	Locum	Minimally invasive surgery, mesothelioma
Kostas Papagiannopoulos	Thoracic	Substantive part-time	General Thoracic Surgery

Examples of practice introduced over past 12 months

- Introduction of robust pathway for neoadjuvant chemo/IO

Plans for the year ahead

- Appoint an 8th substantive colleague

Sustainability

Have you implemented any sustainable approaches on the below checklist? If not, please detail your plans.

Anaesthesia

Local/regional anaesthesia - Y: working towards no longer using ethyl chloride spray to check block height - using metal sticks instead. Cost and environmental saving - complete Conservative oxygen therapy - Y/N Plans: If patients have had bleomycin, no other formal pathway

Total Intra-Venous Anaesthesia - Yes: increasing widespread due to climate impact of volatile anaesthetics. Desflurane removed from LTHT which was the worst offender. To balance this against plastic waste of TIVA. Invested in kit eg TCI pumps, BIS monitors.

Nitrous oxide use and waste – Yes: Piped nitrous removed plus decommissioned in new Women's hospital build; being rolled out across region and is being adopted by RCOA for national distribution.

Inhalational anaesthesia – Yes: see above. Promote low flows

Reusable anaesthetic equipment – Yes: numerous pieces of work ongoing. Eg laryngoscope handles, reusable diathermy leads, reusable kidney dishes etc. Work with Bbraun;

Purchased “iv now” warmers – for short/daycase procedures, so just warm the bag of fluid and don't use blood giving set / ranger insert / extension.

Preparing for Surgery

Reusable PPE and textiles - Yes: Have both disposable and reusable theatre gowns

Water and energy consumption - Yes: Doing some work on lighting and energy consumption; Turning off scavenger system out of hours

Unnecessary clinical interventions - Yes Plans: eg lap chole trays, green appendix pathway like avoiding catheter and ask patient to P/U pre-op. Lots of work on tray rationalisation.

Intraoperative Equipment

Review and rationalise: instruments and equipment – Yes: Streamlined stock of airway stents – will save at least £39,000 per year

Reuse: reusables, hybrid and remanufactured - Y/N Plans:

Reduce: remove unnecessary equipment -Yes: Currently going through VATS equipment to remove unnecessary kit

Replace: switch to low-carbon alternatives - Yes: Lifecycle analysis of reusable gowns ongoing to assess the impact of switching

After the Operation

Recycling and appropriate waste segregation – Yes: Waste is split – education to put appropriate waste in correct bin

Repair and maintenance - Yes: Contracts in place

Power off - Yes Plans: Looking at light sensors e.g toilets / changing areas / scrub rooms. Tap sensors while scrubbing to avoid water waste - (can't afford this currently even though it's "invest to save")

14. Glenfield Hospital, University Hospitals of Leicester (Cardiac & Adult Congenital Surgery)

Data as of 2023

Unit Representative Leon Hadjinikolaou

Consultant Cardiothoracic Surgeons

Name	Specialty	Locum / Substantive	Subspecialty Interest
Ikenna Omeje	Congenital	Substantive	
Imran Saeed	Congenital	Substantive	
Simone Speggorin	Congenital	Substantive	
Giovanni Mariscalco	Cardiac	Substantive	Aortic
Leon Hadjinikolaou	Cardiac	Substantive	Aortic
Christopher Efthimiou	Cardiac	Substantive	
Zein El-Dean	Cardiac	Locum	
Gavin Murphy	Cardiac	Substantive	
Shantanu Sinha	Cardiac	Substantive	Mitral
Mustafa Zakkar	Cardiac	Substantive	
Viktor Zlocha	Cardiac	Substantive	

Notable events over past 12 months

- Complex aortic surgery by Giovanni Mariscalco, Leon Hadjinikolaou, Mustafa Zakkar
- Mitral programme led by Shantanu Sinha

Examples of practice introduced over past 12 months

- Complex aortic surgery by Giovanni Mariscalco, Leon Hadjinikolaou, Mustafa Zakkar
- Mitral programme led by Shantanu Sinha

Plans for the year ahead

- Leicester complex aortic course

Sustainability

Have you implemented any sustainable approaches on the below checklist? If not, please detail your plans.

Anaesthesia

Local/regional anaesthesia - Y/N Plans: No

Conservative oxygen therapy - Y/N Plans: Yes

Total Intra-Venous Anaesthesia - Y/N Plans: N/A

Nitrous oxide use and waste - Y/N Plans: Yes

Inhalational anaesthesia - Y/N Plans: Yes

Reusable anaesthetic equipment - Y/N Plans: Yes

Preparing for Surgery

Reusable PPE and textiles - Y/N Plans: Yes

Water and energy consumption - Y/N Plans: Yes

Unnecessary clinical interventions - Y/N Plans: Yes

Intraoperative Equipment

Review and rationalise: instruments and equipment - Y/N Plans: Yes

Reuse: reusables, hybrid and remanufactured - Y/N Plans: Yes

Reduce: remove unnecessary equipment - Y/N Plans: Yes

Replace: switch to low-carbon alternatives - Y/N Plans: Yes

After the Operation

Recycling and appropriate waste segregation - Y/N Plans: Yes

Repair and maintenance - Y/N Plans: Yes

Power off - Y/N Plans: Yes

14b. Glenfield Hospital, University Hospitals of Leicester (Thoracic Surgery)

Unit Representative **Apostolos Nakas**

Deputy Representative **Edward Caruana**

Consultant Cardiothoracic Surgeons

Name	Specialty	Locum / Substantive	Subspecialty Interest
Apostolos Nakas	Thoracic	Substantive	Mesothelioma
Sridhar Rathinam	Thoracic	Substantive	VATS, LVRS, pectus
Edward Caruana	Thoracic	Substantive	VATS, diaphragm
Vacant	Thoracic	Substantive	

Notable events over past 12 months

- Procurement and setting up of Robotic Bronchoscopy
- High Risk anaesthesia MDT
- Training and Education after hours on Tuesday(TrEAT)
- Monthly multidisciplinary Research meeting
- Increased activity
- Established and delivery of care in the Surgical Enhanced Care Unit.

Examples of practice introduced over past 12 months

- Sustainable Blood Test pathway
- Rib fracture pathway
- Pectus care MDT to feed into National MDT
- Structured module for Undergraduates exposure to thoracic surgery as part of cancer module.

Plans for the year ahead

- Consolidating our ERAS Pathway and DOSA
- Robotic bronchoscopy and guided resections
- Robotic Thoracic Surgery
- Single stop Thoracic and Oncology clinics
- Lung cancer screening in Leicester and Northampton (currently only in Kettering patch)
- Mediastinum MDT

Sustainability

Have you implemented any sustainable approaches on the below checklist? If not, please detail your plans.

Anaesthesia

Local/regional anaesthesia – Y

Increased use of regional blocks in addition to Epidurals, Paravertebrals, i.e SA blocks and ES Blocks.

Conservative oxygen therapy - Y

Total Intra-Venous Anaesthesia - Yes - increasing . Desflurane removed from UHL.

Nitrous oxide use and waste – No .

Inhalational anaesthesia – Yes – rare

Reusable anaesthetic equipment – No mostly single use

Preparing for Surgery

Reusable PPE and textiles - Y: Have both disposable and reusable theatre gowns with increased use of reusable.

Water and energy consumption – Y movement sensor lights and some areas with movement sensory water taps.

Unnecessary clinical interventions – Y Plans to relook at strays depending on needs to rationalise instruments.

Intraoperative Equipment

Review and rationalise: instruments and equipment - YES Plans to relook at strays depending on needs to rationalise instruments.

Reuse: reusables, hybrid and remanufactured – Mixture of both

Reduce: remove unnecessary equipment -Y/ Currently going through VATS / Thoracotomy equipment to remove unnecessary kit

Replace: switch to low-carbon alternatives - Y/N Plans:

After the Operation

Recycling and appropriate waste segregation - Y/N Plans: Yes; Waste is split but work in progress with the new sustainability manager.

Repair and maintenance - Y/N Plans: Contracts in place

Power off - Y/N Plans: Light sensors out of hours

14c. Leicester Royal Infirmary, University Hospitals of Leicester (Congenital)

Data as of 2023

Unit Representative Ikenna Omeje

Name	Specialty	Locum / Substantive	Subspecialty Interest
Ikenna Omeje	Congenital	Substantive	
Imran Saeed	Congenital	Substantive	
Simone Speggiorin	Congenital	Substantive	

Notable events over past 12 months

- Settled in the new children's hospital
- Streamlined Adult congenital pathway with colleagues in Glenfield site

Plans for year ahead

- Increase engagement with the cardiothoracic training programme to increase opportunities for paediatric cardiac surgery

15. Alder Hey Children's Hospital, Liverpool

Unit Representative Ramesh Kutty

Consultant Cardiothoracic Surgeons

Name	Specialty	Locum / Substantive	Subspecialty Interest
Ram Dhannapuneni	Congenital/ACHD	Substantive	
Rafael Guerrero	Congenital/ACHD	Substantive	
Ramesh Kutty	Congenital/ACHD	Substantive	
Attilio Lotto	Congenital/ACHD	Substantive	

Notable events over past 12 months

- ACHD service has grown into one of the largest in the UK
- Decreased activity during last financial year in paediatric operating and increase in our waiting list
- Successful recruitment of a substantive consultant to replace retiring colleague
- Trainee SCP recruited and in post
- Trainee perfusionist recruited and in post
- Bid for paediatric Pectus service for country successful and first patients operated up

Examples of best practice introduced over past 12 months

- Increased collaboration with Aortic and mitral service at Liverpool Heart and Chest Hospital

Plans for the year ahead

- Pectus surgery activity - outpatient and surgical to be increased
- Increase ACHD throughput
- Reintroduce 'Fast-track' paediatric cardiac surgical pathway

16. Liverpool Heart & Chest Hospital (Cardiac & Congenital Surgery)

Unit Representative Haytham Sabry
Deputy Representative Selvaraj Shanmuganathan

Consultant Cardiothoracic Surgeons

Name	Ca / Th / CT / Co	Locum / Substantive	Subspecialty Interest
Manoj Kuduvalli	Cardiac	Substantive	Aortic
Mark Field	Cardiac	Substantive	Aortic
Andrew Muir	Cardiac	Substantive	Mitral/OPCAB/MAG/ HOCM/Cardio-oncology /Mini- AVR/ MICS OPCAB
Paul Modi	Cardiac	Substantive	Mitral/OPCAB/Mini-Mitral/MAG
Debbie Harrington	Cardiac	Substantive	Aortic
Neeraj Mediratta	Cardiac	Substantive	General cardiac
Omar Nawaytou	Cardiac	Substantive	Aortic
Gopal Soppa	Cardiac	Substantive	Mitral/MAG
Mohamed Zeinah	Cardiac	Substantive	General cardiac/OPCAB/Mini-AVR
Ahmed Othman	Cardiac	Substantive	Aortic
Ayman Kenawy	Cardiac	Substantive	Aortic
Bil Kirmani	Cardiac	Substantive	Mitral/OPCAB/MAG
Haytham Sabry	Cardiac	Substantive	Mitral/OPCAB/MAG
Duncan Steele	Cardiac	Substantive	General cardiac/MAG
Selvaraj Shanmuganathan	Cardiac	Substantive	Mitral/OPCAB/MAG/Mini- mitral/Mini-AVR
Jakub Marczak	Cardiac	Locum	Aortic
Amir Khosravi	Cardiac	Substantive	General cardiac

Notable events over past 12 months

- Haytham Sabry appointed as substantive consultant cardiac surgeon.

Plans for the year ahead

- Train second surgeon for MICS OPCAB
- Train third surgeon for Mini-mitral

16b. Liverpool Heart and Chest Hospital (Thoracic)

Unit Representative Steven Woolley

Consultant Cardiothoracic Surgeons

Name	Specialty	Locum / Substantive	Subspecialty Interest
Julius Asante-Siaw	Thoracic	Substantive	Thoracic
Michael Shackcloth	Thoracic	Substantive	Thoracic
Steven Woolley	Thoracic	Substantive	Thoracic
Susannah Love	Thoracic	Substantive	Thoracic
Matthew Smith	Thoracic	Substantive	Thoracic
Annemarie Brunswicker	Thoracic	Locum	Thoracic

Notable events over past 12 months

- Annemarie Brunswicker appointed as a locum consultant thoracic surgeon.
- Mr Richard Page retired after an outstanding career.

17. Evelina London Children's Hospital

Data as of 2023

Unit Representative Caner Salih

Consultant Cardiothoracic Surgeons

Name	Specialty	Locum / Substantive	Subspecialty Interest
Conal Austin	Congenital	Substantive	Congenital, Adult
Caner Salih	Congenital	Substantive	Congenital
Caroline Chenu	Congenital	Substantive	Congenital
Halkawt Nuri	Congenital	Substantive	Congenital

18. Great Ormond Street Hospital, London

Data as of 2023

Unit Representative Martin Kostolny

Consultant Cardiothoracic Surgeons

Name	Specialty	Locum / Substantive	Subspecialty Interest
Martin Kostolny	Congenital	Substantive	
Victor Tsang	Congenital	Substantive	
Nagarajan Muthialu	Congenital & Cardiothoracic	Substantive	
Branko Mimic	Congenital	Substantive	
Anusha Jeegatheeswaran	Congenital		

19. Guy's Hospital, London

Data as of 2023

Unit Representative Juliet King
Deputy Representative Tom Routledge (clinical lead)

Consultant Cardiothoracic Surgeons

Name	Specialty	Locum / Substantive	Subspecialty Interest
Leanne Ashrafian	Thoracic	Substantive	RATS, academic, navigational bronchoscopy
Andrea Bille	Thoracic	Substantive	RATS, advanced thymoma, mesothelioma, academic
Karen Harrison-Phipps	Thoracic	Substantive	RATS, surgical training, clinical management
Juliet King	Thoracic	Substantive	Clinical governance
Lawrence Okiror	Thoracic	Substantive	RATS, LVRS/airways, audit lead
John Pilling	Thoracic	Substantive	Training and education lead
Tom Routledge	Thoracic	Substantive	RATS, surgical training, clinical lead
Stephanie Fraser	Thoracic	Associate specialist	Patient and public engagement, rapid diagnostics (navigational bronchoscopy) and technology translation.

Notable events over past 12 months

- Approval of eighth consultant post due to introduction of lung cancer screening.
- Expansion of robotic surgery and navigational bronchoscopy services

Examples of practice introduced over past 12 months

- High-risk MDT being introduced with input from POPS and anaesthetic groups to complement pre-hab service.
- Expanded thoracic nurse practitioner numbers and appointment of surgical CNS.
- Dedicated POPS consultant undertaking ward reviews of surgical patients.

Plans for the year ahead

- Appointment of eighth consultant
- Access to second operative robot

Sustainability

Have you implemented any sustainable approaches on the below checklist? If not, please detail your plans.

Most of these are already in place to some degree.

Anaesthesia

Local/regional anaesthesia - Y/N Plans:

Conservative oxygen therapy - Y/N Plans:

Total Intra-Venous Anaesthesia - Y/N Plans:

Nitrous oxide use and waste - Y/N Plans:

Inhalational anaesthesia - Y/N Plans:

Reusable anaesthetic equipment - Y/N Plans:

Preparing for Surgery

Reusable PPE and textiles - Y/N Plans:

Water and energy consumption - Y/N Plans:

Unnecessary clinical interventions - Y/N Plans:

Intraoperative Equipment

Review and rationalise: instruments and equipment - Y/N Plans:

Reuse: reusables, hybrid and remanufactured - Y/N Plans:

Reduce: remove unnecessary equipment - Y/N Plans:

Replace: switch to low-carbon alternatives - Y/N Plans:

After the Operation

Recycling and appropriate waste segregation - Y/N Plans:

Repair and maintenance - Y/N Plans:

Power off - Y/N Plans:

20. Hammersmith Hospital, London

Unit Representatives	Roberto Casula (Cardiac) Jayanta Nandi (Thoracic) Marco Scarci (Thoracic)
Deputy Representative	Diana Moreira (ANP Lead)

Consultant Cardiothoracic Surgeons

Name	Specialty	Locum / Substantive	Subspecialty Interest
Roberto Casula	Cardiac	Substantive	Mitral
Prakash Punjabi	Cardiac	Substantive	Mitral
Andrew Chukwuemeka	Cardiac	Substantive	Coronary
Alessandro Viviano	Cardiac	Substantive	Aortic
Emad Al Jaaly	Cardiac	Substantive	Aortic
Thanos Athansiou	Cardiac	Substantive	Coronary
Marco Scarci	Thoracic	Substantive	Thoracic, uniportal
May Al-Sahaf	Thoracic	Substantive	Thoracic VATS
Jayanta Nandi	Thoracic	Substantive	Thoracic VATS
Thomas Tsitias	Thoracic	Substantive	Thoracic VATS

Notable events over past 12 months

- Two colleagues appointed as substantive cardiac consultants

Examples of practice introduced over past 12 months

- Aortic dissection program, part of London aortic rota

Plans for the year ahead

- Robotic Surgery

Sustainability

Have you implemented any sustainable approaches on the below checklist? If not, please detail your plans.

Reduced use of single use devices

Anaesthesia

Local/regional anaesthesia - Y/N Plans:

Conservative oxygen therapy - Y/N Plans:

Total Intra-Venous Anaesthesia - Y/N Plans:

Nitrous oxide use and waste - Y/N Plans:

Inhalational anaesthesia - Y/N Plans:

Reusable anaesthetic equipment - Y/N Plans:

Preparing for Surgery

Reusable PPE and textiles - Y/N Plans:

Water and energy consumption - Y/N Plans:

Unnecessary clinical interventions - Y/N Plans:

Intraoperative Equipment

Review and rationalise: instruments and equipment - Y/N Plans:

Reuse: reusables, hybrid and remanufactured - Y/N Plans:

Reduce: remove unnecessary equipment - Y/N Plans:

Replace: switch to low-carbon alternatives - Y/N Plans:

After the Operation

Recycling and appropriate waste segregation - Y/N Plans:

Repair and maintenance - Y/N Plans:

Power off - Y/N Plans:

21. Harefield Hospital, London

Unit Representative **Sunil K Bhudia**

Deputy Representative **Nizar Asadi**

Consultant Cardiothoracic Surgeons

Name	Specialty	Locum / Substantive	Subspecialty Interest
Jullien Gaer	Cardiac	Substantive	Aortic
Fabio De Robertis	Cardiac	Substantive	ICM, Mitral
Shahzad Raja	Cardiac	Substantive	Complex Revasc
Toufan Bahrami	Cardiac	Substantive	Mitral
Sunil Bhudia	Cardiac	Substantive	Mitra, Aortic
Espeed Khoshbin	Cardiac, Transplant	Substantive	Transplant
Maria Monteagudo-Vela	Cardiac, Transplant	Substantive	Transplant
Mohamed Osman	Cardiac, Transplant	Substantive	Transplant
Aravinda Page	Cardiac, Transplant	Substantive	Transplant
Anton Sabashnikov	Cardiac, Transplant	Substantive	Transplant
Emma Beddow	Thoracic	Substantive	Thoracic
Vladimir Anikin	Thoracic	Substantive	Thoracic
Jonathan Finch	Thoracic	Substantive	Thoracic
Nizar Asadi	Thoracic	Substantive	Thoracic
Diana Garcia Saez	Transplant	Specialty Doctor	Transplant
Bartlomeij Zych	Transplant	Specialty Doctor	Transplant

Notable events over past 12 months

- Developing our transplantation team

- Increasing minimal access surgery
- Establishing the transplant team

Examples of practice introduced over past 12 months

- Multidisciplinary approach to patient assessment
- Developing the non-medical teams

Plans for the year ahead

- Introducing robotic assisted surgery – thoracic and then cardiac

Sustainability

Have you implemented any sustainable approaches on the below checklist? If not, please detail your plans.

Anaesthesia

Local/regional anaesthesia - Y

Conservative oxygen therapy - Y

Total Intra-Venous Anaesthesia - Y

Nitrous oxide use and waste - Y

Inhalational anaesthesia - Y

Reusable anaesthetic equipment - Y

Preparing for Surgery

Reusable PPE and textiles - Y

Water and energy consumption - Y

Unnecessary clinical interventions - Y

Intraoperative Equipment

Review and rationalise: instruments and equipment - Y

Reuse: reusables, hybrid and remanufactured - Y

Reduce: remove unnecessary equipment -Y

Replace: switch to low-carbon alternatives - Y

After the Operation

Recycling and appropriate waste segregation - Y

Repair and maintenance - Y

Power off - Y

22. King's College Hospital, London

Unit Representative **Alia Noorani (Cardiac)**
Deputy Representative **Donald Whitaker (Thoracic)**

Consultant Cardiothoracic Surgeons

Name	Specialty	Locum / Substantive	Subspecialty Interest
Max Baghai	Cardiac	Substantive	Aortic, Mitral, Minimally Invasive Surgery
Ranjit Deshpande	Cardiac	Substantive	Aortic, Mitral, Minimally Invasive Surgery
Lindsay John	Cardiac	Substantive	Clinical Governance
Habib Khan (Clinical Lead)	Cardiac	Substantive	Aortic, Mitral, Minimally Invasive Surgery
Ashok Narayana	Cardiac	Locum	Aortic, Minimally Invasive Surgery
Alia Noorani	Cardiac	Substantive	Aortic
Donald Whitaker	Cardiothoracic	Substantive	VATS, Trauma

Notable events over past 12 months

- FET programme
- Cyberattack

Examples of practice introduced over past 12 months

- FET for AAD

Plans for the year ahead

- Appoint substantive consultant
- Expand SCP staff

Sustainability

Have you implemented any sustainable approaches on the below checklist? If not, please detail your plans.

Anaesthesia

Local/regional anaesthesia -Plans to develop

Conservative oxygen therapy - No

Total Intra-Venous Anaesthesia - Yes

Nitrous oxide use and waste - Y/N Plans:

Inhalational anaesthesia - yes

Reusable anaesthetic equipment - not at present

Preparing for Surgery

Reusable PPE and textiles - No

Water and energy consumption - Y/N Plans:

Unnecessary clinical interventions - Y/N Plans:

Intraoperative Equipment

Review and rationalise: instruments and equipment - yes

Reuse: reusables, hybrid and remanufactured - yes

Reduce: remove unnecessary equipment - yes

Replace: switch to low-carbon alternatives - not at present

After the Operation

Recycling and appropriate waste segregation - yes

Repair and maintenance - yes

Power off - yes

23a. Royal Brompton Hospital, London (Cardiac Surgery)

Data as of 2023

Unit Representative George Asimakopoulos

Consultant Cardiothoracic Surgeons

Name	Specialty	Locum / Substantive	Subspecialty Interest
Tony de Souza	Cardiac	Substantive	Mitral surgery
Ulrich Rosendahl	Cardiac	Substantive	Aortic surgery
Richard Trimlett	Cardiac	Substantive	Endoscopic revascularisation surgery, ECMO
George Asimakopoulos	Cardiac	Substantive	Aortic surgery
Rashmi Yadav	Cardiac	Substantive	Mitral surgery
Cesare Quarto	Cardiac	Substantive	Aortic surgery
Mario Petrou	Cardiac	Substantive	OPCAB, Aortic surgery
Jullien Gaer	Cardiac	Substantive	
Mobi Rehman	Cardiac	Locum	Mitral surgery

Notable events over past 12 months

- Continuing trans-catheter mitral valve programme, including Tendyne, NeoChords and Valve in Valve implants. We are the only centre in Great Britain currently offering NeoChords to high-risk patients with degenerative MR.
- Very good outcomes in the acute aortic dissection service
- Moved towards day of surgery admission for cardiac surgery
- Day of discharge photos for patients helped reduce surgical site infection

Examples of best practice introduced over past 12 months

- Darwin programme was introduced to increase safety and efficiency of the hospital
- Increasing programme of endoscopic mitral, AVRs
- Grow the trans-catheter mitral and tricuspid valve programme
- Start the minimally invasive mitral valve programme

Plans for the year ahead

- 3D system for endoscopic LIMA to LAD (EndoACAB)

23b. Royal Brompton Hospital, London (Thoracic Surgery)

Unit Representative Silviu Buderu
NAHP Representative Simon Jordan

Consultant Cardiothoracic Surgeons

Name	Specialty	Locum / Substantive	Subspecialty Interest
Simon Jordan	Thoracic	Substantive	Sarcoma, paediatric
Eric Lim	Thoracic	Substantive	Research
Sofina Begum	Thoracic	Substantive	Sarcoma, paediatric
Silviu Buderu	Thoracic	Substantive	Germ cell tumour, paediatric

Notable events over past 12 months

- Navigation robotic bronchoscopy
- EPIC – patient electronic system

Examples of practice introduced over past 12 months

- 2 consultant surgery for complex cases
- Junior doctors' regular thoracic courses

Plans for the year ahead

- Robotic thoracic surgery
- new consultant thoracic surgeon recruitment
- Lung sarcoma referral centre

Sustainability

Have you implemented any sustainable approaches on the below checklist? If not, please detail your plans.

Anaesthesia

Local/regional anaesthesia - Y

Conservative oxygen therapy - Y

Total Intra-Venous Anaesthesia - Y

Nitrous oxide use and waste - Y

Inhalational anaesthesia - Y

Reusable anaesthetic equipment - Y

Preparing for Surgery

Reusable PPE and textiles - N Plans: not planned

Water and energy consumption - Y

Unnecessary clinical interventions - Y

Intraoperative Equipment

Review and rationalise: instruments and equipment - Y

Reuse: reusables, hybrid and remanufactured - Y

Reduce: remove unnecessary equipment -Y

Replace: switch to low-carbon alternatives - Y

After the Operation

Recycling and appropriate waste segregation - Y

Repair and maintenance - Y

Power off - Y

23c. Royal Brompton Hospital, London (Congenital Surgery)

Data as of 2023

Unit Representative Andreas Hoschtitzky

Consultant Cardiothoracic Surgeons

Name	Specialty	Locum / Substantive	Subspecialty Interest
Darryl Shore	Congenital	Substantive	ACHD
Guido Michielon	Congenital	Substantive	Neonates
Andreas Hoschtitzky	Congenital	Substantive	ACHD
Caroline Chenu	Congenital	Substantive	

Notable events over past 12 months

- Introduction of a dedicated monthly single ventricle pathway MDT focused on patients on Norwood pathway
- Introduction of a joint end-stage heart failure & transplant MDT for ACHD patients with the transplant unit at Harefield
- Introduction of supported Ross procedures with PEARS graft

Plans for the year ahead

- Closer collaboration with Evelina Children's Hospital & St Thomas' Hospital

24. St Bartholomew's Hospital, London

Data as of 2023

Unit Representative Henrietta Wilson (Thoracic)
Benjamin Adams (Cardiac)

Consultant Cardiothoracic Surgeons

Name	Specialty	Locum / Substantive	Subspecialty Interest
Rakesh Uppal	Cardiac	Substantive	Aortic
Benjamin Adams	Cardiac	Substantive	Aortic / Thoracoabdominal surgery
Dincer Aktuerk	Cardiac	Substantive	Mini-mitral
Shirish Ambekar	Cardiac	Substantive	Endocarditis
Wael Awad	Cardiac	Substantive	Aortic
Carmelo Di Salvo	Cardiac	Substantive	Aortic
Stephen Edmondson	Cardiac	Substantive	
Shyamsunder Kolvekar	Cardiothoracic	Substantive	Chest wall
Kulvinder Lall	Cardiac	Substantive	Aortic
David Lawrence	Cardiothoracic	Substantive	Mitral
Ana Lopez-Marco	Cardiac	Substantive	Aortic / thoracoabdominal surgery
Aung Oo	Cardiac	Substantive	Aortic / thoracoabdominal surgery
Neil Roberts	Cardiac	Substantive	
Amir Sheikh	Cardiac	Substantive	

Alex Shipolini	Cardiac	Substantive	Myocardectomy
Kit Wong	Cardiac	Substantive	
John Yap	Cardiac	Substantive	
Martin Yates	Cardiac	Locum	Myocardectomy
Timothy Batchelor	Thoracic		
Kelvin Lau	Thoracic	Substantive	Clinical director Navigational bronchoscopy and ablation LVRS Uniportal VATS
Steven Stamenkovic	Thoracic	Substantive	Director of robotic surgery Training lead Robotic assisted thoracic surgery
David Waller	Thoracic	Substantive	Research lead Mesothelioma LVRS Robotic assisted thoracic surgery
Henrietta Wilson	Thoracic	Substantive	Governance lead Robotic assisted thoracic surgery Mediastinal disease

Notable events over past 12 months

- Inaugural Barts segmentectomy course
- Inaugural Barts Bronchoscopic ablation summit
- Intuitive robotic fellowship
- Kulvinder Lall takes over as Clinical Director from Stephen Edmondson in Cardiac Surgery and Kelvin Lau as Clinical Director for Thoracic Surgery (now two roles)
- Thoracoabdominal mortality down to 7.7%
- MIMS cases reach over 60

Examples of practice introduced over past 12 months

- Specialist COPD MDT
- Pathway for management of indeterminate anterior mediastinal lesions

- MiDCAB programme commenced
- Successful bid for cardiac robot to Barts Charity

Plans for the year ahead

- Barts COPD summit
- Nurse led consent
- Robotic cardiac surgery to commence
- Further work with robotic TCD device in arch surgery (device on loan for 12 months)

Sustainability

Have you implemented any sustainable approaches on the below checklist? If not, please detail your plans.

Thoracic:

Anaesthesia

Local/regional anaesthesia - Y/N Plans:

Conservative oxygen therapy - Y/N Plans:

Total Intra-Venous Anaesthesia - Y/N Plans: Unknown

Nitrous oxide use and waste - Y/N Plans: N/a

Inhalational anaesthesia - Y/N Plans: Unknown

Reusable anaesthetic equipment - Y/N Plans: Unknown

Preparing for Surgery

Reusable PPE and textiles - Y/N Plans: Unknown

Water and energy consumption - Y/N Plans: Unknown

Unnecessary clinical interventions - Y/N Plans: Unknown

Intraoperative Equipment

Review and rationalise: instruments and equipment - Y/N Plans:

Reuse: reusables, hybrid and remanufactured - Y/N Plans:

Reduce: remove unnecessary equipment - Y/N Plans:

Replace: switch to low-carbon alternatives - Y/N Plans: Trust wide

After the Operation

Recycling and appropriate waste segregation - Y/N Plans:

Repair and maintenance - Y/N Plans:

Power off - Y/N Plans: Trust wide:

Cardiac:

Anaesthesia

Local/regional anaesthesia - Y Plans: Cryoablation of intercostal nerves in TAAA cases

Conservative oxygen therapy - Y Plans: Ongoing

Total Intra-Venous Anaesthesia - Y

Nitrous oxide use and waste - N Plans: Will discuss

Inhalational anaesthesia - Y/N Plans: Will discuss

Reusable anaesthetic equipment - Y/N Plans: Will discuss

Preparing for Surgery

Reusable PPE and textiles - N Plans: ?reusable theatre gowns?

Water and energy consumption - N Plans: None

Unnecessary clinical interventions - N Plans: None

Intraoperative Equipment

Review and rationalise: instruments and equipment - Y Plans: Risk register for all end of life equipment

Reuse: reusables, hybrid and remanufactured - N Plans: None

Reduce: remove unnecessary equipment - N Plans: None

Replace: switch to low-carbon alternatives - N Plans: Will discuss

After the Operation

Recycling and appropriate waste segregation - N Plans: Clear Recycling bins in theatre

Repair and maintenance - N Plans:

Power off - N Plans:

25. St George's Hospital, London

Unit Representative Ian Hunt (Thoracic) Aziz Momin (Cardiac)
 Deputy Representative Jeremy Smelt (Thoracic) Justin Nowell (Cardiac)

Consultant Cardiothoracic Surgeons

Name	Specialty	Locum / Substantive	Subspecialty Interest
Jeremy Smelt	Thoracic	Substantive	Thymic malignancy / Robotic
Paul Vaughan	Thoracic	Substantive	Emphysema/LVRS
Melanie Jenkins	Thoracic	Substantive	Education
Periklis Perikleous	Thoracic	Substantive	Robotic
Ian Hunt	Thoracic	Substantive	Chest Wall
Jeremy Smelt	Thoracic	Substantive	Thymic malignancy / Robotic
Venkatachalam Chandrasekaran	Cardiac	Substantive	Mitral, Mid CABG, minimally invasive surgery
Mazin Sarsam	Cardiac	Substantive	Mitral
Marjan Jahangiri	Cardiac	Substantive	Aortic Valve sparing
Robin Kanagasabay	Cardiac	Substantive	Arterial grafting
Justin Nowell	Cardiac	Substantive	Coronary
Aziz Momin	Cardiac	Substantive	Total Arterial CABG, minimally invasive surgery, AF surgery
Paul Govewalla	Cardiac	Locum	Aortic TAVI
Pouya Youssefi	Cardiac	Locum	

Notable events over past 12 months

- Substantive appointment – Mr Periklis Perikleous

- Minimally invasive surgery, Multiple arterial Mid CABG, AF ablation, LAA occlusion, mini Mitral
- Aortic Valve Sparing surgery, Mitral Valve Surgery, Prof David Lecture and Visit,
- Aortic Dissection service as part of South London rota
- We have appointed an internal clinical lead, for the first time since 2018

Examples of practice introduced over past 12 months

- Established robotic lung resection program (2 surgeons)
- Established LVRS program with MDT
- Increased in Endoscopic Radial Artery harvest
- Cryotherapy nerve blocks for minimally invasive surgery

Plans for the year ahead

- Robotic bronchoscopy service planned
- Expansion of robotic thoracic program (3 surgeons)
- We are planning to convert locum posts into substantive positions

Sustainability

Have you implemented any sustainable approaches on the below checklist? If not, please detail your plans.

Anaesthesia

Local/regional anaesthesia - Y

Conservative oxygen therapy - N

Total Intra-Venous Anaesthesia - Y

Nitrous oxide use and waste -

Inhalational anaesthesia - Y

Reusable anaesthetic equipment – Y

Preparing for Surgery

Reusable PPE and textiles - N

Water and energy consumption - N

Unnecessary clinical interventions – Y

Intraoperative Equipment

Review and rationalise: instruments and equipment - Y

Reuse: reusables, hybrid and remanufactured - Y

Reduce: remove unnecessary equipment -

Replace: switch to low-carbon alternatives –

After the Operation

Recycling and appropriate waste segregation -

Repair and maintenance -:

Power off -

26. St Thomas' Hospital, London

Data as of 2023

Unit Representative Michael Sabetai

Consultant Cardiothoracic Surgeons

Name	Specialty	Locum / Substantive	Subspecialty Interest
Christopher Young	Cardiac	Substantive	Aortic
Michael Sabetai	Cardiac	Substantive	Aortic
Gianluca Lucchese	Cardiac	Substantive	Mitral / Minimally invasive
Emad Al Jaaly	Cardiac	Locum	
Michael Ghosh-Dastidar	Cardiac	Substantive	Aortic
Kamran Baig	Cardiac	Substantive	Aortic
Paolo Bosco	Cardiac	Substantive	Mitral
Vasilios Avlonitis	Cardiac	Substantive	Mitral
Associate Specialist Antonio Bivona	Cardiac	Substantive	

Notable events over past 12 months

- Trust Audit half day once a month.
- Once a week, one-hour teaching session on a cardiac topic
- Training from the Reps for the new cardiac equipment/instrument once a month
- Approval of 8th consultant post due to introduction of lung cancer screening.
- Expansion of robotic surgery and navigational bronchoscopy services

Examples of practice introduced over past 12 months

- Apollo, Epic System is introduced in the Trust. Training is in progress.
- Skin suture changed to antimicrobial and plus sutures
- Ioban/steridrape for all exposed areas/site for operation. such as; Legs in CABG cases. (for infection audit)
- Normosol is being replaced to Chlorhexidine for introducing urinary catheter to comply with the Trust Policies

- Making sure we debrief after each case
- Paper works printed for notice boards to be laminated (Infection control policy)
- Intra-operative prepping of the patient to be carried out by the SpR or the SCP to monitor SSI rates
- High-risk MDT being introduced with input from POPS and anaesthetic groups to complement pre-hab service.
- Expanded thoracic nurse practitioner numbers and appointment of surgical CNS.
- Dedicated POPS consultant undertaking ward reviews of surgical patients.

Plans for the year ahead

- Appointment of 8th consultant
- Access to second operative robot

Sustainability - St Thomas' Hospital only

Have you implemented any sustainable approaches on the below checklist? If not, please detail your plans.

Anaesthesia

Local/regional anaesthesia - Y/N Plans: N, not commonly used in cardiac surgery

Conservative oxygen therapy - Y/N Plans: Y (as low-flow anaesthesia)

Total Intra-Venous Anaesthesia - Y/N Plans: Y, in some cases

Nitrous oxide use and waste - Y/N Plans: N

Inhalational anaesthesia - Y/N Plans: Y

Reusable anaesthetic equipment - Y/N Plans: Most equipment is disposable.

Preparing for Surgery

Reusable PPE and textiles - Y/N Plans: N, only disposable PPE and textiles used

Water and energy consumption - Y/N Plans: N, no current plans for sustainable approaches to water and energy consumption

Unnecessary clinical interventions - Y/N Plans: Y, no unnecessary clinical interventions are carried out

Intraoperative Equipment

Review and rationalise: instruments and equipment - Y/N Plans: Y

Reuse: reusables, hybrid and remanufactured - Y/N Plans: N

Reduce: remove unnecessary equipment - Y/N Plans: N

Replace: switch to low-carbon alternatives - Y/N Plans: N

After the Operation

Recycling and appropriate waste segregation - Y/N Plans: Y

Repair and maintenance - Y/N Plans: Y

Power off - Y/N Plans: Y

27. University College London Hospitals

Unit Representative **Davide Patrini**

Deputy Representative **Kunal Bhakhri**

Consultant Cardiothoracic Surgeons

Name	Specialty	Locum / Substantive	Subspecialty Interest
Davide Patrini	Thoracic	Substantive	Minimally invasive
Mario de Luca	Thoracic	Locum	Minimally invasive
David Lawrence	Cardiothoracic	Substantive	Lung cancer surgery
Kunal Bhakhri	Thoracic	Substantive	Robotic
Alessandro Maraschi	Thoracic	Locum	Robotic

Notable events over past 12 months

- Back to 5 consultants
- Develop robotic program even more

Plans for the year ahead

- Shift cases to robotic
- Robotic ENB

Sustainability

Have you implemented any sustainable approaches on the below checklist? If not, please detail your plans.

Anaesthesia

Local/regional anaesthesia - Y/N Plans: Y

Conservative oxygen therapy - Y/N Plans:

Total Intra-Venous Anaesthesia - Y/N Plans:

Nitrous oxide use and waste - Y/N Plans:

Inhalational anaesthesia - Y/N Plans:

Reusable anaesthetic equipment - Y/N Plans:

Preparing for Surgery

Reusable PPE and textiles - Y/N Plans: Y

Water and energy consumption - Y/N Plans: Y

Unnecessary clinical interventions - Y/N Plans: Y

Intraoperative Equipment

Review and rationalise: instruments and equipment - Y/N Plans: Y

Reuse: reusables, hybrid and remanufactured - Y/N Plans: Y

Reduce: remove unnecessary equipment -Y/N Plans: Y

Replace: switch to low-carbon alternatives - Y/N Plans: Y

After the Operation

Recycling and appropriate waste segregation - Y/N Plans: Y

Repair and maintenance - Y/N Plans: Y

Power off - Y/N Plans: Y

28. Manchester Royal Infirmary

Data as of 2023

Unit Representative Amir Sepehripour

Consultant Cardiothoracic Surgeons

Name	Specialty	Locum / Substantive	Subspecialty Interest
Ragheb Hasan	Cardiac / TAVI	Substantive	mitral / TAVI
Edward McLaughlin	Cardiac	Substantive	mitral
Haitham Abunasra	Cardiac	Substantive	trauma
Swetha Iyer	Cardiac	Substantive	aortic
Amir Sepehripour	Cardiac	Substantive	mitral
Abdelrahman Abdelbar	Cardiac	Locum	

Notable events over past 12 months

- Introduction EPIC HIVE electronic patient record - this has transformed patient care in MFT.

Plans for the year ahead

- Further integration of single service cardiac surgery (Manchester University NHS Foundation Trust) across two sites - Manchester Royal Infirmary and Wythenshawe Hospital.

29a. Wythenshawe hospital, Manchester (Cardiac)

Data as of 2023

Unit Representative Rajamiyer Venkateswaran

Consultant Cardiothoracic Surgeons

Name	Specialty	Locum / Substantive	Subspecialty Interest
Rajamiyer Venkateswaran	Cardiac	Substantive	Transplant, MCS, mitral surgery
Paul Waterworth	Cardiac	Substantive	Heart transplant, aortic surgery
Isaac Kadir	Cardiac	Substantive	Heart transplant, MCS, aortic surgery
John Carey	Cardiac	Substantive	
Jim Barnard	Cardiac	Substantive	Transplant, MCS, mitral surgery
Ioannis Dimarakis	Cardiac	Substantive	Transplant, MCS, aortic surgery
Nnamdi Nwaejike	Cardiac	Substantive	Transplant, MCS, mitral surgery
Vipin Mehta	Cardiac	Substantive	Transplant, MCS, aortic surgery

Plans for the year ahead

- Further integration of cardiac surgery between MRI and Wythenshawe Hospital - Cardiac surgery will move to one site at Wythenshawe Hospital.

29b. Wythenshawe Hospital, Manchester (Thoracic Surgery)

Data as of 2023

Unit Representative Eustace Fontaine

Consultant Cardiothoracic Surgeons

Name	Specialty	Locum / Substantive	Subspecialty Interest
Kandadai Rammohan	Thoracic	Substantive	LVRs, airway intervention
Eustace Fontaine	Thoracic	Substantive	Chest wall
Felice Granato	Thoracic	Substantive	Thymoma, uniportal surgery
Vijay Joshi	Thoracic	Substantive	LVRs
Annabel Sharkey	Thoracic	Substantive	Mesothelioma, uniportal surgery
Somshekar Ganti	Thoracic	Substantive	Uniportal surgery
James Barr	Thoracic	Substantive	Lung transplant

30. James Cook University Hospital, Middlesbrough

Unit Representative Ian Paul

Consultant Cardiothoracic Surgeons

Name	Specialty	Locum / Substantive	Subspecialty Interest
Ian Paul	Thoracic	Substantive	Minimally invasive/ robotic
Joel Dunning	Thoracic	Substantive	Minimally invasive/ robotic
Jonathon Ferguson	Thoracic	Substantive	
Ben Waterhouse	Thoracic	Substantive (Aug 2024)	Minimally invasive/ robotic
Enoch Akowuah	Cardiac	Substantive	Mitral valve/mini- mitral/research
Andrew Goodwin	Cardiac	Substantive	Minimally invasive
Danai Karamanou	Cardiac	Substantive	
Andrew Owens	Cardiac	Substantive	Aortic surgery
Mazyar Kanani	Cardiac	Substantive	Aortic surgery
Stuart Grant	Cardiac	Substantive	Aortic surgery
Ralph White	Cardiac	Substantive	Arterial Revasc

Notable events over past 12 months

- Opening of Academic Cardiovascular Research Unit
- Northern Pectus Centre

Examples of practice introduced over past 12 months

- Navigational bronchoscopy service
- Cryoanalgesia for robotic lobectomy

Plans for the year ahead

- RESTORE Trial (Pectus Surgery)
- CRYPTIC Trial (RCT assessing cryoanalgesia for lung cancer resection)

31. Freeman Hospital, Newcastle

Data as of 2023

Consultant Cardiothoracic Surgeons

Name	Specialty	Locum / Substantive	Subspecialty Interest
BC Ramesh	Cardiac	Substantive	Mitral, transplant
Asif Shah	Cardiac	Substantive	Mitral, transplant, mechanical support
Karen Booth	Cardiac	Substantive	Aortic
Stephan Schueler	Cardiac	Substantive	Mechanical support
Simon Ledingham	Cardiac	Substantive	
Izanee Mydin	Cardiac	Substantive	Transplant
Faruk Oezalp	Cardiac	Substantive	Transplant, arrhythmia
Stephen Clark	Cardiac	Substantive	Transplant, arrhythmia, carcinoid heart disease
Vamsi Dronavalli	Cardiac	Substantive	Aortic, transplant
Dharmendra Agrawal	Thoracic	Substantive	Robotics, sarcoma
Sion Barnard	Thoracic	Substantive	Chest wall, sarcoma
Vincenzo Pagliarulo	Thoracic	Substantive	Robotics
Bob Slight	Thoracic	Substantive	
Joe Thekkudan	Thoracic	Substantive	
Keng Ang	Thoracic	Substantive	LVRs, robotics
Kostas Kostantinos	Thoracic	Locum	
Mohammed Nassar	Congenital	Substantive	Transplantation, mechanical assist, PEARS

Louise Kenny	Congenital	Substantive	Transplantation, mechanical assist
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Sustainability

Have you implemented any sustainable approaches on the below checklist? If not, please detail your plans.

Anaesthesia

Local/regional anaesthesia - Y

Conservative oxygen therapy - Y

Total Intra-Venous Anaesthesia - Y

Nitrous oxide use and waste - yes

Inhalational anaesthesia - Y

Reusable anaesthetic equipment - Y

Preparing for Surgery

Reusable PPE and textiles - Y

Water and energy consumption - Y

Unnecessary clinical interventions - Y

Intraoperative Equipment

Review and rationalise: instruments and equipment - yes

Reuse: reusables, hybrid and remanufactured - Y

Reduce: remove unnecessary equipment -Y

Replace: switch to low-carbon alternatives - Y

After the Operation

Recycling and appropriate waste segregation - Y

Repair and maintenance - Y

Power off - Y

32. Norfolk and Norwich University Hospital

Unit Representative Waldemar Bartosik

Deputy Representative Jakub Kadlec

Consultant Cardiothoracic Surgeons

Name	Specialty	Locum / Substantive	Subspecialty Interest
Waldemar Bartosik	Thoracic	Substantive	RATS, Lung Cancer, Chest wall, Mediastinum
Jakub Kadlec	Thoracic	Substantive	Lung cancer, Pectus surgery
Vasileios Kouritas	Thoracic	Substantive	RATS, Emphysema
Bartlomiej Szafron	Thoracic	Locum	Lung cancer, VATS
Cristina Viola	Thoracic	Substantive	RATS, lung cancer, Pectus

Notable events over past 12 months

- 4th substantial Consultant
- Increase number of CNS

Examples of practice introduced over past 12 months

- Formalized emphysema MDT

Plans for the year ahead

- Pre-rehabilitation programme
- Increase robotic access.

Sustainability

Have you implemented any sustainable approaches on the below checklist? If not, please detail your plans.

Anaesthesia

Local/regional anaesthesia – Y

Conservative oxygen therapy - Y

Total Intra-Venous Anaesthesia -

Nitrous oxide use and waste -

Inhalational anaesthesia -

Reusable anaesthetic equipment -

Preparing for Surgery

Reusable PPE and textiles – Y

Water and energy consumption - Y

Unnecessary clinical interventions - Y

Intraoperative Equipment

Review and rationalise: instruments and equipment - Y

Reuse: reusables, hybrid and remanufactured - Y

Reduce: remove unnecessary equipment -Y

Replace: switch to low-carbon alternatives - Y

After the Operation

Recycling and appropriate waste segregation - Y

Repair and maintenance - Y

Power off - Y

33a. Nottingham University Hospital

Unit Representative **Anas Boulemden**

Deputy Representative **Sara Pereira**

Consultant Cardiothoracic Surgeons

Name	Specialty	Locum / Substantive	Subspecialty Interest
Jacob Chacko	Ca	Substantive	Mitral, off-pump, MIMS
Umar Hamid	Ca	Substantive	Mitral, RAT-AVR, AF surgery, MIMS
Niki Nicou	Ca	Substantive	Aortic, mini-AVR
Adam Szafranek	Ca	Substantive	Aortic, redo surgery, Mitral, Pericarditis
Anas Boulemden	Ca	Substantive	Mitral, MIMS, AF surgery

Notable events over past 12 months

- Introduction of mini mitral program with excellent early outcomes
- Aortic nurse led surveillance clinic

Examples of practice introduced over past 12 months

- IE team weekly MDT
- Introduction of aortic nurse led surveillance clinic

Plans for the year ahead

- Expansion of mini mitral program, expansion of aortic program
- Introduction of Mini-ART, mid-CAB
- ERAS

Sustainability

Have you implemented any sustainable approaches on the below checklist? If not, please detail your plans.

Anaesthesia

Local/regional anaesthesia - Y/N Plans: Yes, Paravertebral for MIMS

Conservative oxygen therapy - Y/N Plans: No

Total Intra-Venous Anaesthesia - Y/N Plans: No

Nitrous oxide use and waste - Y/N Plans: Never

Inhalational anaesthesia - Y/N Plans: yes

Reusable anaesthetic equipment - Y/N Plans: Never

Preparing for Surgery

Reusable PPE and textiles - Y/N Plans: Never

Water and energy consumption - Y/N Plans: No

Unnecessary clinical interventions - Y/N Plans: No

Intraoperative Equipment

Review and rationalise: instruments and equipment - Y/N Plans: Yes

Reuse: reusables, hybrid and remanufactured - Y/N Plans: No

Reduce: remove unnecessary equipment Y/N Plans: Yes

Replace: switch to low-carbon alternatives - Y/N Plans: Yes

After the Operation

Recycling and appropriate waste segregation - Y/N Plans: Yes

Repair and maintenance - Y/N Plans: Yes

Power off - Y/N Plans: Yes

33b. Nottingham City Hospital (Thoracic Surgery)

Unit Representative Mohammad Hawari
Deputy Representative Nathan Burnside

Consultant Cardiothoracic Surgeons

Name	Specialty	Locum / Substantive	Subspecialty Interest
Emmanuel Addae-Boateng	Thoracic	Substantive	Robotic
Mohammad Hawari	Thoracic	Substantive	Robotic, tracheal, LVRS, Robotic navigation
Nathan Burnside	Thoracic	Substantive	Robotic, LVRS, sarcoma, Robotic navigation
Mehmood Jadoon	Thoracic	Substantive	Robotic, LVRS
Oliver Pumphrey	Thoracic	Substantive	Robotic
Abdelrahman Elsayed	Thoracic	Locum	Robotic, sarcoma

Notable events over past 12 months

- Retirement of Mr John Duffy after a long career in thoracic and oesophageal surgery. We thank him for everything he has done.
- Appointment of Mr Oliver Pumphrey and Mr Abdelrahman Elsayed.
- Establishment of an advanced robotic programme with 6 fully trained surgeons with daily access to Da Vinci system, sitting within one of two thoracic theatres.
- Introduction of Ion Robotic Navigational Bronchoscopy with Cios Spin imaging. The service will be delivered by 2 thoracic surgeons and 2 interventional respiratory physicians.

Examples of practice introduced over past 12 months

- Ability to do daily robotic thoracic operations.
- Addition of 1 extra theatre day per week.
- Ion robotic navigational bronchoscopy.
- Nurse led follow-up clinics.

Plans for the year ahead

- Appointment of 6th substantive consultant.
- Robotic fellowship.
- Expansion of lung cancer screening.

Sustainability

Have you implemented any sustainable approaches on the below checklist? If not, please detail your plans.

Anaesthesia

Local/regional anaesthesia - Y/N Plans: Yes as indicated

Conservative oxygen therapy - Y/N Plans: Yes

Total Intra-Venous Anaesthesia - Y/N Plans: Yes as indicated

Nitrous oxide use and waste - Y/N Plans: Yes as indicated

Inhalational anaesthesia - Y/N Plans: Partial

Reusable anaesthetic equipment - Y/N Plans: Partial

Preparing for Surgery

Reusable PPE and textiles - Y/N Plans: Partial

Water and energy consumption - Y/N Plans: Built in refurbishment plans.

Unnecessary clinical interventions - Y/N Plans: Yes

Intraoperative Equipment

Review and rationalise: instruments and equipment - Y/N Plans: Yes

Reuse: reusables, hybrid and remanufactured - Y/N Plans: Partial

Reduce: remove unnecessary equipment - Y/N Plans: Yes

Replace: switch to low-carbon alternatives - Y/N Plans: Partial

After the Operation

Recycling and appropriate waste segregation - Y/N Plans: Yes

Repair and maintenance - Y/N Plans: Yes

Power off - Y/N Plans: Yes

34. John Radcliffe Hospital, Oxford

Unit Representative **George Krasopoulos (Cardiac)**
Dionisios Stavroulias (Thoracic)

Deputy Representative **Andrea D'Alessio (TAD)**
Rhona Taberham (Post-CCT NTN)
Jenny Mitchell (NAHP)

Consultant Cardiothoracic Surgeons

Name	Specialty	Locum / Substantive	Subspecialty Interest
Rana Sayeed	Cardiac	Substantive	Mitral, minimally invasive mitral
George Krasopoulos	Cardiac	Substantive	Aortic, OPCABG, arterial grafts, hybrid AF ablation, pericardial disease, rapid-deployment valves
Vivek Srivastava	Cardiac	Substantive	Mitral, minimally invasive mitral
Antonios Kourliouros	Cardiac	Substantive	Aortic, mechanical circulatory support
Nicholas Walcot	Cardiac	Substantive	Adult cardiac surgery
Priya Sastry	Cardiac	Substantive	Adult cardiac surgery, surgical education
Dionisios Stavroulias	Thoracic	Substantive	Thymic surgery Pectus deformities
Elizabeth Belcher	Thoracic	Substantive	Endobronchial interventions
Francesco Di Chiara	Thoracic	Substantive	Thoracoscopic first rib resection Diaphragmatic surgery Thoracic endometriosis

Notable events over past 12 months

- Appointment of two substantive cardiac surgical consultants

Plans for the year ahead

- Fourth thoracic consultant (locum) appointment
- Robotic surgery programme

35. Derriford Hospital, Plymouth

Unit Representative Adrian Marchbank (Thoracic)
 Clinton Lloyd (Cardiac)

Consultant Cardiothoracic Surgeons

Name	Specialty	Locum / Substantive	Subspecialty Interest
Adrian Marchbank	Cardiothoracic	Substantive	RATS/Airway/Chest wall
Yousaf Awan	Thoracic	Substantive	VATS
Osama Elzain	Thoracic	Substantive	RATS
Francesco Sellitri	Thoracic	Substantive	Trauma
Priyadharshanan Ariyaratnam	Thoracic	Substantive	VATS/Pectus/ENB
James Kuo	Cardiac	Substantive	Aortic
Malcolm Dalrymple-Hay	Cardiac	Substantive	TAVI
Clinton Lloyd	Cardiac	Substantive	Mitral, TAVI
Bao Nguyen	Cardiac	Substantive	Aortic
Aladdin Bashir	Cardiac	Locum	Aortic
Vijay Muppiri	Cardiac	Locum	Aortic

Notable events over past 12 months

- Consolidated RATS
- Commenced ENB
- Development of TAVI and TMVR/TEER programme led by surgeons

Examples of practice introduced over past 12 months

- Introduced Regional Pectus Surgery Service for Devon and Cornwall Patients in response to NHS Re-Commissioning of Pectus Surgery on the NHS for severe cases with cardiorespiratory compromise.
- Introduction of minimal access mitral TEER programme.

Plans for the year ahead

- Increase RATS provision

- Business plan LVRS
- Business plan activity increase with TLHC
- Working towards dedicated aortic on-call team

36. Northern General Hospital, Sheffield

Unit Representative Stefano Forlani (Cardiac)
 David Hopkinson (Thoracic)

Deputy Representative Norman Briffa

Consultant Cardiothoracic Surgeons

Name	Specialty	Locum / Substantive	Subspecialty Interest
Stefano Forlani	Cardiac	Substantive	Aortic Surgery
Peter Braidley	Cardiac	Substantive	Mitral Surgery
Norman Briffa	Cardiac	Substantive	Mitral Surgery
Neil Cartwright	Cardiac	Substantive	Mitral Surgery
Govind Chetty	Cardiac	Substantive	Aortic Surgery
Renata Greco	Cardiac	Substantive	Aortic Surgery
Steve Hunter	Cardiac	Substantive	Mitral Surgery
Syed Saddique	Cardiac	Substantive	Aortic Surgery
Jagan Rao	Thoracic	Substantive	
John Edwards	Thoracic	Substantive	
Sara Tenconi	Thoracic	Substantive	
Ashok Kar	Thoracic	Substantive	
Luigi Ventura	Thoracic	Substantive	

37. University Hospital Southampton

Unit Representative **Lukacs Veres (Thoracic)**

Deputy Representative **Lauren Dixon**

Consultant Cardiothoracic Surgeons

Name	Specialty	Locum / Substantive	Subspecialty Interest
Aiman Alzetani	Thoracic	Substantive	LVRs, Navigational Bronchoscopy
Martin Chamberlain	Thoracic	Substantive	Lung cancer, VATS
Alessandro Tamburrini	Thoracic	Substantive	Trauma, LVRs
Lukacs Veres	Thoracic	Substantive	Robotic, Pectus
Edwin Woo	Thoracic	Substantive	Robotic, Paediatric
Oliver Harrison	Thoracic	Substantive from 1 st September 2024	
Sunil Ohri	Cardiac	Substantive	
Geoff Tsang	Cardiac	Substantive	Major aortic
Amit Modi	Cardiac	Substantive	Major aortic
Dimitrios Pousios	Cardiac	Substantive	Mitral
Suvitesh Luthra	Cardiac	Substantive	
Szabolcs Miskolczi	Cardiac	Substantive	
Clifford Barlow	Cardiac	Substantive	
Theodore Velissaris	Cardiac	Substantive	
Nicola Viola	Congenital	Substantive	Neonatal surgery, complex reconstructive surgery and Norwood procedure

Giedrius Baliulis	Congenital	Substantive	Adult congenital cardiac surgery, aortic valve and aortic surgery and complex reconstructive surgery
Michael Lavrsen	Congenital	Substantive	Valve surgery and atrioventricular septal defect repair
Antonio Ravaglioli	Congenital	Substantive	Neonatal surgery and aortic valve procedure

Notable events over past 12 months

- Consultant of the week model started Jan 2024

Examples of practice introduced over past 12 months

- Two platform robotic programme established in thoracic surgery at UHS

Plans for the year ahead

- As colleagues are going to overseas fellowship programmes a locum consultant thoracic surgeon will join the service the autumn 2024
- Appointment of a pure thoracic fellow
- Overseas thoracic fellow to join the team
- Introduction of ION - robotic navigational bronchoscopy

Sustainability

Have you implemented any sustainable approaches on the below checklist? If not, please detail your plans.

Anaesthesia

Local/regional anaesthesia - Y/N Plans: Y

Conservative oxygen therapy - Y/N Plans: Y

Total Intra-Venous Anaesthesia - Y/N Plans: N

Nitrous oxide use and waste - Y/N Plans: -

Inhalational anaesthesia - Y/N Plans: -

Reusable anaesthetic equipment - Y/N Plans: -

Preparing for Surgery

Reusable PPE and textiles - Y/N Plans: N

Water and energy consumption - Y/N Plans: Y

Unnecessary clinical interventions - Y/N Plans: Y

Intraoperative Equipment

Review and rationalise: instruments and equipment - Y/N Plans: Y

Reuse: reusables, hybrid and remanufactured - Y/N Plans: N

Reduce: remove unnecessary equipment - Y/N Plans: Y

Replace: switch to low-carbon alternatives - Y/N Plans: N

After the Operation

Recycling and appropriate waste segregation - Y/N Plans: Y

Repair and maintenance - Y/N Plans: Y

Power off - Y/N Plans: Y

38. Royal Stoke University Hospital

Unit Representative Shilajit Ghosh

Deputy Representative Udo Abah

Consultant Cardiothoracic Surgeons

Name	Specialty	Locum / Substantive	Subspecialty Interest
Udo Abah	Thoracic	Substantive	
Shilajit Ghosh	Thoracic	Substantive	Airway, chest wall
Kajan Mahendran	Thoracic	Substantive	
Lakshmi Srinivasan	Thoracic	Substantive	Uniportal
Lognathen Balacumaraswami	Cardiac	Substantive	Mitral / Aortic
Qamar Abid	Cardiac	Substantive	
Prakash Nanjaiah	Cardiac	Substantive	Mitral
Richard Warwick	Cardiac	Substantive	Aortic
Pankaj Mishra	Cardiac	Substantive	Aortic

Notable events over past 12 months

- None

Examples of practice introduced over past 12 months

- Hyperinflation Treatments
- Minimal Access Cardiac Surgery

Plans for the year ahead

- Robotic Thoracic Surgery

Sustainability

Have you implemented any sustainable approaches on the below checklist? If not, please detail your plans.

Anaesthesia

Local/regional anaesthesia - Yes
Conservative oxygen therapy - Yes
Total Intra-Venous Anaesthesia - Yes
Nitrous oxide use and waste – Yes
Inhalational anaesthesia - Yes
Reusable anaesthetic equipment - Yes

Preparing for Surgery

Reusable PPE and textiles – Yes
Water and energy consumption - Yes
Unnecessary clinical interventions - Yes

Intraoperative Equipment

Review and rationalise: instruments and equipment - Yes
Reuse: reusable, hybrid and remanufactured - Yes
Reduce: remove unnecessary equipment -Yes
Replace: switch to low-carbon alternatives - Yes

After the Operation

Recycling and appropriate waste segregation - Yes
Repair and maintenance - Yes
Power off - Yes

39. New Cross Hospital, Wolverhampton

Unit Representative Stephen Billing
Deputy Representative Patrick Yiu

Consultant Cardiothoracic Surgeons

Name	Specialty	Locum / Substantive	Subspecialty Interest
Mahmoud Abdelaziz	Cardiac	Substantive	Mini aortic, aortic surgery, mitral
Stephen Billing	Cardiac	Substantive	Mitral, complex tricuspid, AF surgery
Ahmed Habib	Thoracic	Substantive	Robotic, laser, volume reduction
Maciej Matuszewski	Cardiac	Substantive	Aortic repair, aortic surgery
Nicholas Nikolaidis	Cardiac	Substantive	Mitral, MICS
Ahmed Oliemy	Thoracic	Substantive	Robotic
Giuseppe Rescigno	Cardiac	Substantive	Mini AVR, multi-arterial CABG
Ismail Vokshi	Cardiac	Locum	Aortic
Patrick Yiu	Cardiothoracic	Substantive	Robotic, aortic repair, aortic surgery

Notable events over past 12 months

- Aortic surgeon recruited (IV)
- Increase in weekly activity

Examples of practice introduced over past 12 months

- Aortic arch surgery / FET

Plans for the year ahead

- Commence aortic dissection rota in West Midlands

Sustainability

Have you implemented any sustainable approaches on the below checklist? If not, please detail your plans.

Anaesthesia

Local/regional anaesthesia - Y/N Plans: Y

Conservative oxygen therapy - Y/N Plans: No

Total Intra-Venous Anaesthesia - Y/N Plans: Yes

Nitrous oxide use and waste - Y/N Plans: not known (we do not use in anaesthesia trust wide talks of removing) use for ablation

Inhalational anaesthesia - Y/N Plans: Y (some) do not use desflurane

Reusable anaesthetic equipment - Y/N Plans: No

Preparing for Surgery

Reusable PPE and textiles - Y/N Plans: to commence 2024

Water and energy consumption - Y/N Plans: Trust electricity provided by our own solar farm

Unnecessary clinical interventions - Y/N Plans:

Intraoperative Equipment

Review and rationalise: instruments and equipment - Y/N Plans: No

Reuse: reusables, hybrid and remanufactured - Y/N Plans: No

Reduce: remove unnecessary equipment - Y/N Plans: No

Replace: switch to low-carbon alternatives - Y/N Plans: No

After the Operation

Recycling and appropriate waste segregation - Y/N Plans: No

Repair and maintenance - Y/N Plans: No

Power off - Y/N Plans: No

Ireland

40. Cork University Hospital

Unit Representative Kishore Doddakula

Deputy Representative Tara Ni Dhonnchu

Consultant Cardiothoracic Surgeons

Name	Specialty	Locum / Substantive	Subspecialty Interest
Kishore Doddakula	Cardiothoracic	Substantive	Minimally invasive surgery
Tara Ni Dhonnchu	Cardiac	Substantive	Mitral surgery
John Hinchion	Cardiothoracic	Substantive	None
Nadeem Anjum	Cardiothoracic	Locum	Minimally invasive surgery

Notable events over past 12 months

- Training in Medtronic truck hosted on grounds of the hospital
- Edwards wet lab for sutureless valves

Examples of practice introduced over past 12 months

- Introduced ANP and Physician Associates with appointment of two ANPs and one PA.

Plans for the year ahead

- Introduce MIS Mitral Repair/Replacement
- Endoscopic vein harvest

Sustainability

Have you implemented any sustainable approaches on the below checklist? If not, please detail your plans.

Anaesthesia

Local/regional anaesthesia - Y/N Plans: Y

Conservative oxygen therapy - Y/N Plans: Y

Total Intra-Venous Anaesthesia - Y/N Plans: Y

Nitrous oxide use and waste - Y/N Plans: Y

Inhalational anaesthesia - Y/N Plans: Y

Reusable anaesthetic equipment - Y/N Plans: Y

Preparing for Surgery

Reusable PPE and textiles - Y/N Plans: Y

Water and energy consumption - Y/N Plans: Y

Unnecessary clinical interventions - Y/N Plans: Y

Intraoperative Equipment

Review and rationalise: instruments and equipment - Y/N Plans: Y

Reuse: reusables, hybrid and remanufactured - Y/N Plans: Y

Reduce: remove unnecessary equipment - Y/N Plans: Y

Replace: switch to low-carbon alternatives - Y/N Plans: Y

After the Operation

Recycling and appropriate waste segregation - Y/N Plans: Y

Repair and maintenance - Y/N Plans: Y

Power off - Y/N Plans: Y

41. Mater Misericordiae University Hospital, Dublin

Unit Representative Hossein Javadpour

Deputy Representative Aisling Kinsella

Consultant Cardiothoracic Surgeons

Name	Specialty	Locum / Substantive	Subspecialty Interest
Zeb Chughtai	Cardiac	Substantive	Transplant
Donna Eaton	Thoracic	Substantive	Transplant, airways
Aisling Kinsella	Cardiac	Substantive	Transplant, VADs
David Healy	Cardiothoracic	Substantive	Transplant
Hossein Javadpour	Cardiac	Substantive	Transplant
Lars Nolke	Congenital / Cardiac	Substantive	Transplant, aortic
Jim McCarthy	Cardiac	Substantive	Mitral
Jonathan McGuinness	Congenital	Substantive	Transplant, VADs
Karen Redmond	Thoracic	Substantive	Transplant, robotic, airways
Mark Redmond	Congenital/Cardiac	Substantive	Aortic
Rashid Aziz	Cardiac	Locum	

Notable events over past 12 months

- Aspergillus infection in CCU, affecting Cardiac Transplant candidates. Audit performed

Examples of practice introduced over past 12 months

- Electroning offering system for transplant donation
- Online induction program for Cardiothoracic & Transplant Training
- National Lead for Cardiothoracic surgery was appointed (Prof Mark Redmond)

Plans for the year ahead

- Development of a Dissection Rota for Dublin (will take more than one year)
- Development of OCS for Heart Transplant (will take more than one year)

Sustainability

Have you implemented any sustainable approaches on the below checklist? If not, please detail your plans.

Anaesthesia

Local/regional anaesthesia – **No**, Plans: **none**

Conservative oxygen therapy - **Yes** Plans:

Total Intra-Venous Anaesthesia - **Yes** Plans:

Nitrous oxide use and waste – **No** Plans:

Inhalational anaesthesia – **Yes** Plans:

Reusable anaesthetic equipment – **Partly** Plans:

Preparing for Surgery

Reusable PPE and textiles – **No** Plans: **None**

Water and energy consumption – **No** Plans: **Green Committee is being formed**

Unnecessary clinical interventions - **No** Plans:

Intraoperative Equipment

Review and rationalise: instruments and equipment – **No** Plans: **Currently need more**

Reuse: reusables, hybrid and remanufactured – **Partly Yes** Plans:

Reduce: remove unnecessary equipment -**Yes** Plans:

Replace: switch to low-carbon alternatives - **No** Plans: **Green committee**

After the Operation

Recycling and appropriate waste segregation – **Yes** Plans:

Repair and maintenance – **Yes** Plans:

Power off - **Yes (better adherence needed)** Plans:

42. St James's Hospital, Dublin

Unit Representative Gerard Fitzmaurice
Deputy Representative Saleem Jahangeer

Consultant Cardiothoracic Surgeons

Name	Specialty	Locum / Substantive	Subspecialty Interest
Gerard Fitzmaurice	Thoracic	Substantive	Thoracic Surgical Oncology
Saleem Jahangeer	Cardiac	Substantive	Aortic
Ronan Ryan	Thoracic	Substantive	Thoracic Surgical Oncology
Sarah Early	Cardiac	Substantive	
Vincent Young	Cardiothoracic	Substantive	
Michael Tolan	Cardiothoracic	Substantive	

Notable events over past 12 months

- First Irish European Society of Thoracic Surgeons (ESTS) Accredited Thoracic Surgical Oncology Unit
- Development and expansion of our Robotic thoracic surgical program using the da Vinci Xi system
- Second Biennial St James's Hospital Thoracic Surgical Oncology Course: Focused on Lung Cancer
- Ongoing development and expansion of our Aortic Surveillance Program
- Paperless perfusion documentation implemented
- Additional ANP-led Pre-Assessment Clinic established
- Expansion of Day of Surgery Admissions (DOSA)

Examples of practice introduced over past 12 months

- More complex Robotic surgery with first RATS Sleeve resection, RATS Pneumonectomy, and RATS primary bronchial closure
- Developing Complex Aortic Surgery Program

Plans for the year ahead

- Ongoing expansion of our RATS & Aortic Surgery program
- Develop additional theatre capacity

Sustainability

Have you implemented any sustainable approaches on the below checklist? If not, please detail your plans.

Anaesthesia

Local/regional anaesthesia – Yes, significant and increasing proportion in MIS

Conservative oxygen therapy - Yes

Total Intra-Venous Anaesthesia - Yes

Nitrous oxide use and waste - Yes – Nitrous Oxide is no longer used

Inhalational anaesthesia - Yes

Reusable anaesthetic equipment - Yes; in as much as possible but particularly post Covid much of the anaesthetic equipment is disposable

Preparing for Surgery

Reusable PPE and textiles - No

Water and energy consumption - Yes

Unnecessary clinical interventions - Yes; particularly as part of the ERATS program we continue to significantly reduce use of CVC, epidurals, inotropes and associated lines and pumps, urinary catheters, single drains, etc

Intraoperative Equipment

Review and rationalise: instruments and equipment - No additional plans

Reuse: reusables, hybrid and remanufactured - Yes, in as much as possible with reusable equipment

Reduce: remove unnecessary equipment -Yes

Replace: switch to low-carbon alternatives – No current plans but we will if possible

After the Operation

Recycling and appropriate waste segregation - Yes; long established practice.

Repair and maintenance - Yes

Power off - Yes; equipment is powered off when not in use

43. University Hospital Galway

Unit Representative Alan Soo
Deputy Representative Ronan Kelly

Consultant Cardiothoracic Surgeons

Name	Specialty	Locum / Substantive	Subspecialty Interest
Alan Soo	Cardiothoracic	Substantive	VATS, mitral repair, Multiarterial coronary artery surgery
Ronan Kelly	Cardiothoracic	Substantive	Minimally invasive thoracic surgery, rib fixation for trauma. Multi-arterial coronary artery surgery
Fabio Bartolozzi	Cardiothoracic	Substantive	Minimally invasive valve surgery

Notable events over past 12 months

- Introduction of cryo analgesia

Examples of practice introduced over past 12 months

- Introduction of cryo analgesia

Plans for the year ahead

- Continued expansion of the unit

Sustainability

Have you implemented any sustainable approaches on the below checklist? If not, please detail your plans.

Anaesthesia

Local/regional anaesthesia - N Plans: Will discuss with Lead Consultant Anaesthetist

Conservative oxygen therapy - N Plans: As above

Total Intra-Venous Anaesthesia - N Plans: As above

Nitrous oxide use and waste - N Plans: As above

Inhalational anaesthesia - N Plans: As above

Reusable anaesthetic equipment - N Plans: As above

Preparing for Surgery

Reusable PPE and textiles - Y Plans:

Water and energy consumption - N Plans: Will be discussed

Unnecessary clinical interventions - Y Plans:

Intraoperative Equipment

Review and rationalise: instruments and equipment - Y Plans:

Reuse: reusables, hybrid and remanufactured - N Plans: Will be discussed

Reduce: remove unnecessary equipment -Y Plans:

Replace: switch to low-carbon alternatives - N Plans: Will be discussed

After the Operation

Recycling and appropriate waste segregation - Y Plans:

Repair and maintenance - Y Plans:

Power off - Y Plans:

Northern Ireland

44. Royal Victoria Hospital, Belfast

Unit Representative Pushpinder Sidhu
Deputy Representative Niall McGonigle

Consultant Cardiothoracic Surgeons

Name	Specialty	Locum / Substantive	Subspecialty Interest
Alsir Ahmed	Cardiac	Substantive	Aortic
Chris Austin	Cardiac	Substantive	Adult Congenital
Gwyn Beattie	Cardiac	Substantive	Off pump CABG
Alastair Graham	Cardiac	Substantive	Mitral
Reuben Jeganathan	Cardiac	Substantive	Mitral
Mark Jones	Cardiac	Substantive	Mitral
Katie O'Sullivan	Cardiac	Substantive	Aortic
Pushpinder Sidhu	Cardiac	Substantive	Coronary
Ralitsa Baranowski	Thoracic	Substantive	Robotic
Rory Beattie	Thoracic	Substantive	
Niall McGonigle	Thoracic	Substantive	
Haralobos Parissis	Thoracic	Locum	

Notable events over past 12 months

- Niall McGonigle appointed RCS England Director for NI
- Introduction of the PA post to our service
- Cardiothoracic Surgeons have converted to Cardiac Surgery only
- Kieran McManus retired from Thoracic practice

Examples of practice introduced over past 12 months

- AVR via ART introduced with 2 surgeons undergoing proctoring

Plans for the year ahead

- Primary sternal plating for high risk cases

Sustainability

Have you implemented any sustainable approaches on the below checklist? If not, please detail your plans.

Anaesthesia

Local/regional anaesthesia - Y/N Plans: Yes
Conservative oxygen therapy - Y/N Plans: No
Total Intra-Venous Anaesthesia - Y/N Plans: Yes
Nitrous oxide use and waste - Y/N Plans: Not used
Inhalational anaesthesia - Y/N Plans: Yes
Reusable anaesthetic equipment - Y/N Plans: No

Preparing for Surgery

Reusable PPE and textiles - Y/N Plans: No
Water and energy consumption - Y/N Plans: No
Unnecessary clinical interventions - Y/N Plans: No

Intraoperative Equipment

Review and rationalise: instruments and equipment - Y/N Plans: Yes
Reuse: reusables, hybrid and remanufactured - Y/N Plans: No
Reduce: remove unnecessary equipment - Y/N Plans: No
Replace: switch to low-carbon alternatives - Y/N Plans: No

After the Operation

Recycling and appropriate waste segregation - Y/N Plans: Yes
Repair and maintenance - Y/N Plans: Yes
Power off - Y/N Plans: Yes

Scotland

45. Aberdeen Royal Infirmary

Unit Representative Hussein El-Shafei

Deputy Representative Keith Buchan

Consultant Cardiothoracic Surgeons

Name	Specialty	Locum / Substantive	Subspecialty Interest
Hussein El-Shafei	Cardiothoracic	Substantive	Cardiac
Keith Buchan	Cardiothoracic	Substantive	Cardiac
Mohamed Khalil	Cardiothoracic	Substantive	Thoracic
Uthman Shah	Cardiothoracic	Locum	Cardiac

Notable events over past 12 months

- Reopening of second theatre
- Appoint of 2 cardiac anaesthetists
- More EPR

Examples of practice introduced over past 12 months

- Endoscopic vein harvesting (EVH)

Plans for the year ahead

- Mini mitral refreshing
- Mini aortic introduction
- Increase ICU capacity
- Appointment of PAs

Sustainability

Have you implemented any sustainable approaches on the below checklist? If not, please detail your plans.

Anaesthesia

Local/regional anaesthesia - Y/N Plans: N*

Conservative oxygen therapy - Y/N Plans: N

Total Intra-Venous Anaesthesia - Y/N Plans: N

Nitrous oxide use and waste - Y/N Plans: N

Inhalational anaesthesia - Y/N Plans: N

Reusable anaesthetic equipment - Y/N Plans: N

Preparing for Surgery

Reusable PPE and textiles - Y/N Plans: N

Water and energy consumption - Y/N Plans: N

Unnecessary clinical interventions - Y/N Plans: N

Intraoperative Equipment

Review and rationalise: instruments and equipment - Y/N Plans: N

Reuse: reusables, hybrid and remanufactured - Y/N Plans: N

Reduce: remove unnecessary equipment - Y/N Plans: N

Replace: switch to low-carbon alternatives - Y/N Plans: N

After the Operation

Recycling and appropriate waste segregation - Y/N Plans: N

Repair and maintenance - Y/N Plans: N

Power off - Y/N Plans: N

* Discussions regarding sustainability and green cardiac surgery at organisational level are ongoing but no plans or actions have materialised yet.

46. Royal Infirmary of Edinburgh

Unit Representative Vipin Zamvar
Deputy Representative Daisy Sandeman

Consultant Cardiothoracic Surgeons

Name	Specialty	Locum / Substantive	Subspecialty Interest
Vipin Zamvar	Cardiothoracic	Substantive	Coronary Surgery, VATS, TAVI
Renzo Pessotto	Cardiothoracic	Substantive	Mitral Repair, TAVI
Kelvin Lim	Cardiac	Substantive	AF Surgery
Vincenzo Giordano	Cardiac	Substantive	Aortic Surgery
Haris Koutsogiannidis	Cardiac	Substantive	
Malcolm Will	Thoracic	Substantive	Robotic Surgery, VATS, Pectus Repairs
Anthony Chambers	Thoracic	Locum	VATS, Trauma

Notable events over past 12 months

- Robotic thoracic surgery programme commenced in 2023

Plans for the year ahead

- Endoscopic Vascular harvesting set up to be established in the next 12 months

Sustainability

Have you implemented any sustainable approaches on the below checklist? If not, please detail your plans.

Anaesthesia:

Local/regional anaesthesia - **Yes**. Plans: Reusable pumps are used for regional analgesia infusions. Segregation of waste has been implemented into the CT theatre suite. This is to maximise recycling of packaging (eg. of syringes) as much as possible.

Conservative oxygen therapy - **Yes**. Plans: Use of oxygen as per safe anaesthesia for individual patients. Recognition that optimising gas flows improves the life-span of the soda-lime thereby reducing waste.

Total Intra-Venous Anaesthesia - **Yes**. Plans: Segregation of waste has been implemented into the CT theatre suite. This is to maximise recycling of packaging (eg. of syringes) as much as possible.

Nitrous oxide use and waste - **Yes**. Plans: The manifold completely capped off earlier this year. There is now no piped nitrous oxide anywhere within the Cardiothoracic Unit.

Inhalational anaesthesia - **No**. Plans: Capture and recycling of inhalational agents remains expensive and not yet affordable. Low gas flow is employed when inhalational agents are used.

Reusable anaesthetic equipment - **No**. Plans: Infection control measures frequently dictate single patient, single use items.

Preparing for Surgery

Reusable PPE and textiles - N Plans: Y

Water and energy consumption – Y

Unnecessary clinical interventions - N

Intraoperative Equipment

Review and rationalise: instruments and equipment – Y

Reuse: reusables, hybrid and remanufactured - N Plans: Y

Reduce: remove unnecessary equipment –Y

Replace: switch to low-carbon alternatives - N Plans: Y

After the Operation

Recycling and appropriate waste segregation – Y

Repair and maintenance - N Plans:

Power off - N Plans: Y

At present, waste segregation takes place in theatres and anaesthetic rooms for recycling and we have recently moved to reusable retractor for CALS pack. These are the only relevant changes in theatre.

47. Golden Jubilee National Hospital, Glasgow

Unit Representative **Hari Doshi**
Mathew Thomas

Consultant Cardiothoracic Surgeons

Name	Specialty	Locum / Substantive	Subspecialty Interest
Mark Danton	Congenital	Substantive	Congenital
Andrew Mclean	Congenital	Substantive	Congenital
Ed Peng	Congenital	Substantive	Congenital
Suku Nair	Cardiac	Substantive	Transplant
Phil Curry	Cardiac	Substantive	Transplant
Hari Doshi	Cardiac	Substantive	Transplant
Simon Messer	Cardiac	Substantive	Transplant
Fraser Sunderland	Cardiac	Substantive	Aortic
Zahid Mahmood	Cardiac	Substantive	Mitral
Kasra Shaikhrezai	Cardiac	Substantive	Mitral
Rashmi Birla	Cardiac	Substantive	Aortic
Alan Kirk	Thoracic	Substantive	Robotics
Mohammed Asif	Thoracic	Substantive	Robotics
Mathew Thomas	Thoracic	Substantive	Robotics
Rocco Bilancia	Thoracic	Substantive	Robotics
Jennifer Whitely	Thoracic	Substantive	Robotics
Nikos Kostoulas	Thoracic	Substantive	Robotics

Notable events over past 12 months

- Training - George Gradinariu completed training – takes up aortic fellowship in Liverpool
- New NTN appointment at ST1 commences August 2024

Examples of practice introduced over past 12 months

- Aortic program development
- Protocols for 2-surgeon operating

Plans for the year ahead

- Review of teaching curriculum

Sustainability

Have you implemented any sustainable approaches on the below checklist? If not, please detail your plans.

Anaesthesia

Local/regional anaesthesia - Y/N Plans:

Conservative oxygen therapy - Y/N Plans:

Total Intra-Venous Anaesthesia - Y/N Plans:

Nitrous oxide use and waste - Y/N Plans:

Inhalational anaesthesia - Y/N Plans:

Reusable anaesthetic equipment - Y/N Plans:

Preparing for Surgery

Reusable PPE and textiles - Y/N Plans:

Water and energy consumption - Y/N Plans:

Unnecessary clinical interventions - Y/N Plans:

Intraoperative Equipment

Review and rationalise: instruments and equipment - Y/N Plans:

Reuse: reusables, hybrid and remanufactured - Y/N Plans:

Reduce: remove unnecessary equipment - Y/N Plans:

Replace: switch to low-carbon alternatives - Y/N Plans:

After the Operation

Recycling and appropriate waste segregation - Y/N Plans:

Repair and maintenance - Y/N Plans:

Power off - Y/N Plans:

Projects for some of the above initiatives:

Wales

48. University Hospital Cardiff

Data as of 2023

Unit Representative Malgorzata Kornaszewska

Consultant Cardiothoracic Surgeons

Name	Specialty	Locum / Substantive	Subspecialty Interest
Indu Deglurkar	Cardiac	Substantive	Aortic
Ulrich Von Oppell	Cardiac	Substantive	Mitral
Dheeraj Mehta	Cardiac	Substantive	Off-pump
Mesbah Rahman	Cardiac	Substantive	
Michail Koutentakis	Cardiac	Substantive	
Malgorzata Kornaszewska	Thoracic	Substantive	Pectus Surgery and LVRS
Ainis Pirtnieks	Thoracic	Substantive	Sublobar resection
Vasileios Valtzoglou	Thoracic	Substantive	Empyema
Tom Combella	Thoracic	Substantive	Sublobar resection, robotic, chest wall surgery

Notable events over past 12 months

- Expansion of rib fixation service through delivery of MTC

Plans for the year ahead

- Submission of business case for Robotic thoracic surgery
- Pilot of regional Lung cancer screening
- Contributing centres to CONVERT and ORIF national rib fixation RCT

Sustainability

Have you implemented any sustainable approaches on the below checklist? If not, please detail your plans.

Anaesthesia

Local/regional anaesthesia – No Plans: Work in Progress to implement RA for Post op analgesia as part of ERAS.

Conservative oxygen therapy - No. Not sure if you mean low flow anaesthesia. All our machines are automatic gas flow machines and do very low flow anaesthesia.

Total Intra-Venous Anaesthesia - Yes. Only for Cancer cases.

Nitrous oxide use and waste - Yes N2O piped Gas has been decommissioned

Inhalational anaesthesia - Yes. Most Cardiac and Non-cancer. Desflurane has been decommissioned

Reusable anaesthetic equipment - No. Plans to implement reusable Video laryngoscopes and Bronchoscopes.

Preparing for Surgery

Reusable PPE and textiles - Y/N Plans:

Water and energy consumption - Y/N Plans:

Unnecessary clinical interventions - Y/N Plans:

Intraoperative Equipment

Review and rationalise: instruments and equipment - Y/N Plans:

Reuse: reusables, hybrid and remanufactured - Y/N Plans:

Reduce: remove unnecessary equipment -Y/N Plans:

Replace: switch to low-carbon alternatives - Y/N Plans:

After the Operation

Recycling and appropriate waste segregation - Y/N Plans:

Repair and maintenance - Y/N Plans:

Power off - Y/N Plans:

49. Morriston Hospital, Swansea

Unit Representative Afzal Zaidi
Deputy Representative Ira Goldsmith

Consultant Cardiothoracic Surgeons

Name	Specialty	Locum / Substantive	Subspecialty Interest
Saeed Ashraf	Cardiac	Substantive	
Aprim Youhana	Cardiac	Substantive	
Afzal Zaidi	Cardiac	Substantive	
Pankaj Kumar	Cardiac	Substantive	
Fabio Falconieri	Cardiac	Substantive	
Saleem Mujtaba	Cardiac	Locum	
Ira Goldsmith	Thoracic	Substantive	
Francois L'hote	Thoracic	Substantive	
Robert Nicolae	Thoracic	Locum	

Notable events over past 12 months

- Appointment of a locum thoracic surgeon
- Neoadjuvant treatment in lung cancer

Examples of practice introduced over past 12 months

- Hub and Spoke model for pre-operative iron transfusion therapy across South West Wales

Plans for the year ahead

- Appointment of a substantive third thoracic surgeon. Navigational bronchoscopy
- Robotic surgery

Board of Representatives (BORS) Terms of Reference

General Principles

1. The main aim of the Board of Representatives (BORS) is to enable effective two-way communication between each cardiothoracic surgical Unit in the UK & Ireland and the SCTS Executive.
2. The purpose of the Board is to promote and share quality improvement in cardiothoracic surgery.

Structure

1. Membership of the BORS includes appointed Unit Representatives and members of the SCTS Executive (including trustees, elected trustees and co-opted members).
2. Each Unit that provides cardiothoracic surgical services in the United Kingdom & Ireland should have a representative in the BORS.
3. If the appointed Unit Representative of the BORS is not able to attend a meeting, they should ensure their Unit is represented by a colleague. Each Unit should also have a named Deputy.
4. As only one representative from each Unit is required, Units who are represented on the BORS by a member of the SCTS Executive can consider not sending an additional representative.
5. Consideration can also be made within each Unit whether to have individual adult cardiac, thoracic and congenital cardiac surgical representation.

Responsibilities of Unit Representatives

1. To attend the annual BORS meeting and the Annual General Meeting. If unable to attend, to ensure a colleague attends in lieu. All Units should be represented at the BORS meeting and the Annual General Meeting.
2. To effectively communicate with their Unit and colleagues on matters discussed at the Annual BORS meeting and Annual General Meeting, and other matters communicated from the SCTS.
3. To assist the SCTS in a timely manner with *ad hoc* enquiries relating to practice, workforce and other topical issues.
4. To support the SCTS in promoting engagement with educational events, fellowships and other opportunities.
5. To declare any real or potential conflicts of interest.
6. To share examples of best practice and quality improvement projects with the other Units and the SCTS to improve the delivery of care for patients undergoing cardiothoracic surgery in the United Kingdom and Ireland.
7. To produce a short annual report, including major events in the Unit and an up-to-date list of surgical staffing.

Appointment of Unit Representatives

1. Unit Representatives will be appointed by the Executive following majority vote from an internal election amongst consultant cardiothoracic surgeons working in the Unit.
2. They will have a term of membership of three years, which is renewable for another three years with the support of colleagues in their Unit and the Executive. Maximum two terms (6 years).
3. Where a Representative is not fulfilling their expected duties, the Executive will invite them to step down from the role.
4. Representatives must be a member of the SCTS.

Meetings

1. The annual BORS meeting, which usually takes place at the RCS in London in September, and the Annual General Meeting, which usually takes place as a virtual meeting in March.
2. The SCTS will be expected to communicate the agenda to all members of the BORS and ask for agenda items.
3. The SCTS will communicate any actions of the annual BORS meeting and Annual General Meeting to all Unit Representatives.
4. There will be a need for electronic communication via e-mail/social media and maybe a need for occasional conference calls.
5. Travel expenses will be reimbursed for the annual BORS meeting, in line with the SCTS policy (i.e. advancetickets only and no first-class travel).

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