Designed to fasten and trim suture in general and cardiovascular applications, the COR-KNOT® system is helping surgeons around the world deliver a strong, fast, and consistent knot!

Please visit the CARDIO SOLUTIONS booth to learn more about COR-KNOT®.
2014
ANNUAL MEETING
IONESCU UNIVERSITY
CARDIOThoracic FORUM

Programme

10-12 March 2014
Edinburgh International Conference Centre
Organised By

Society for Cardiothoracic Surgery in Great Britain and Ireland

*Ian Wilson – Meeting Secretary*
Email: i.c.wilson@btinternet.com

*Jonathan Hyde – Deputy Meeting Secretary*
Email: jonathan.hyde@bsuh.nhs.uk

*Isabelle Ferner – Society Administrator & Conference Organiser*
Email: sctsadmin@scts.org

*Tilly Mitchell – Exhibition Organiser & Accounts Administrator*
Email: tilly@scts.org

*Christina Bannister – Nursing & Allied Health Professionals Representative*
Email: christina.bannister@uhs.nhs.uk

*Vipin Zamvar – Publishing Secretary*
Email: zamvar@hotmail.com

**Future Meetings**
The 2015 meeting of ACTA/SCTS is to be held at:
Manchester Central Conference Centre
24th to 27th March 2015

All best endeavours will be made to present the programme as printed. However the Society for Cardiothoracic Surgery in Great Britain and Ireland reserves the right to alter or cancel without prior notice any of the arrangements, timetables, plans or other items relating directly or indirectly to the meeting for any cause beyond their reasonable control. The Society for Cardiothoracic Surgery in GB & Ireland is not liable for any loss or inconvenience caused as a result of such alteration. In the event of cancellation of the congress all pre-paid fees will be refunded in full. However the Society for Cardiothoracic Surgery in GB & Ireland is not liable for any other loss or inconvenience caused as a result of such cancellation and delegates are therefore advised to take out their own travel insurance and extend their policy for personal possessions as the meeting does not cover individuals against cancellations of bookings or theft or damage of belongings.

*Designed and printed by CPL ASSOCIATES, London.*
Contents

International Guests 4
National Guests 6
Venue Maps 8
General Information 10
Committees 12
Past Presidents 20
10 year Meeting History 21
Prizes & Scholarships 22
Outline Programme
  - Monday 10 March 23
  - Tuesday 11 March 24
  - Wednesday 12 March 25

Meeting Programme
SCTS IONESCU UNIVERSITY 30
  Contemporary Aortic Surgery 32
  A Masterclass in Atrial Fibrillation Surgery 33
  Coronary Artery Surgery: The Evidence behind Decision Making 35
  State of the Art Mitral Valve Surgery 38
Multispecialty Thoracic Surgery 40
Simulation in Thoracic Surgery 41
Advances in Management of Sepsis in Thoracic Surgery 42
Innovations in Thoracic Surgery 43
Lunch Box Sessions 45

CARDIAC SURGERY 49
ADVANCED HEART & LUNG FAILURE SURGERY 73
CONGENITAL HEART SURGERY 77
THORACIC SURGERY 83
CT FORUM 99
MISCELLANEOUS 105

EXHIBITION GUIDE
Exhibitors List 111
Exhibition Floor Plan 113
Exhibition Catalogue 116

Author Index 139

SCTS EDINBURGH 3
International Speakers

Christophe Acar  
Professor of Cardiac Surgery,  
Hopital La Pitie Salpetriere,  
Paris, France

David Adams  
Professor & Chairman,  
Department of Cardiothoracic  
Surgery, Icahn School of  
Medicine at Mount Sinai  
Medical Center, New York, USA

Scott Balderson  
Thoracic Surgical Physician  
Assistant, Duke University,  
North Carolina, USA

Dr Michael Bemelman  
Trauma Surgeon/Orthopedic  
Surgeon, St Elisabeth Hospital,  
Tilburg, The Netherlands

Dr Stefano Benussi  
Cardiac Surgeon, Ospedale San  
Raffaele University, San  
Raffaele, Italy

Dr Gianluigi Bisleri  
Assistant Professor of Surgery  
Division of Cardiac Surgery,  
University of Brescia Medical  
School, Italy

Ms Brooke Callahan  
Neurophysiologist, Clinical  
Supervisor, Connecticut and  
New York, Impulse Monitoring,  
USA

Dr Manuel Castellá  
Chief, Cardiac Surgery  
Department, Hospital Clinic of  
Barcelona, Spain

James L Cox  
Evarts A. Graham Professor of  
Surgery, Emeritus Chief,  
Division of Cardiothoracic  
Surgery, Emeritus Washington  
University School of Medicine  
Barnes-Jewish Hospital  
St. Louis, Missouri, USA

Otto Dapunt  
Professor of Cardiothoracic  
Surgery, Klinikum Oldenburg,  
Oldenburg, Germany

Philippe Dartevelle  
Professor of Thoracic Surgery  
and Chief Executive Officer,  
Marie Lannelongue Hospital,  
Paris, France

Goran Dellgren  
Professor of Cardiac Surgery,  
Director of Heart and Lung  
Transplantation, Sahlgrenska  
University Hospital,  
Gothenburg, Sweden

John Elefteriades  
Professor of Cardiac Surgery,  
Yale University School of  
Medicine, New Haven, USA

Pierre-Emmanuel Falcoz  
Professor of Thoracic Surgery,  
Strasbourg University Hospital,  
France

Borut Gersak  
Professor and Head of  
Department of Cardiovascular  
Surgery, University Medical  
Center Ljubljana, Ljubljana,  
Slovenia

Christian Hamm  
Professor of Internal Medicine  
and Cardiology, University of  
Giessen and Kerckhoff Heart  
Center, Germany

Felix Herth  
Professor and Chairman,  
Pneumology and Critical Care  
Medicine, Thoraxklinik  
University of Heidelberg,  
Germany

Marcus Hoffmann  
General Manager Expert Panel  
Health Sciences,  
Baden-Wuerttemberg  
Cooperative State University  
(DHBW), Mannheim Germany
Dr Helmut Isringhaus  
Head of Department, Director  
Lung Centre Saar, Voelklingen,  
Germany

Anders Jeppsson  
Professor of Cardiologic  
Surgery, Sahlgrenska University  
Hospital, Gothenburg, Sweden

Philippe Kolh  
Professor of Cardiologic  
Surgery, University Hospital of  
Liège, Belgium

Mark La Meir  
Professor of Cardiac Surgery,  
University Hospital Brussels,  
Belgium

Gunther Laufer  
Professor of Cardiologic  
Surgery, Medical University of  
Vienna, Austria

Dr David Lizotte  
Lead Physician Assistant,  
Cardiologic Surgery,  
Sentara Rockingham Memorial  
Hospital, Harrisonburg,  
Virginia, USA

Gilbert Massard  
Professor of Thoracic Surgery,  
Director of Lung  
Transplantation  
Hôpitaux Universitaires de  
Strasbourg, Strasbourg, France

Dr Shanti Thirumalai  
Impulse Monitoring, Maryland,  
USA

Jean-Francois Obadia  
Professor of Cardiologic  
Surgery and Transplantation,  
Hôpital Louis Pradel, Lyon, France

Alain Pavie  
Professor of Cardiovascular  
Surgery, La Pitie Salpêtrière  
Hospital, Paris, France

Dirk Van Raemdonck  
Professor of Thoracic Surgery  
and Head of the Leuven  
Transplant Center, University  
Hospitals, Leuven, Belgium

Raphael Rosenhek  
Professor of Cardiology,  
Director Heart Valve Clinic  
Division of Cardiology, Medical  
University of Vienna, Austria

Hazim Safi  
Professor and Chairman of  
Cardiac Surgery, The University  
of Texas Medical School,  
Memorial Hermann Hospital,  
Houston, Texas, USA

Dr Sacha Salzberg  
Consultant Surgeon,  
Heart Clinic, Hirslanden Clinic,  
Zurich, Switzerland

Dr Marc Schepens  
Chief of Department of Cardiac  
Surgery, AZ St. Jan, Brugge,  
Belgium

Miguel Sousa Uva  
Professor and Cardiac Surgeon  
Hospital Cruz Vermelha,  
Lisbon, Portugal

Hugo Vanermen  
Professor of Cardiac Surgery,  
CLouvain, St Luc, Belgium  
LUMC, Leiden, The Netherlands  
IMM, Paris, France  
Klinik im Park, Zürich,  
Switzerland

Aladdin Yilmaz  
Professor of Cardiologic  
Surgery, Saint Antonius  
Hospital, Nieuwegein,  
The Netherlands
## National Speakers

<table>
<thead>
<tr>
<th>Name</th>
<th>Title and Institutions</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dr Nicholas Banner</strong></td>
<td>Consultant Cardiologist, Royal Brompton Hospital and Harefield NHS Trust, London</td>
</tr>
<tr>
<td><strong>Dr Martin Besser</strong></td>
<td>Consultant Haematologist, Papworth Hospital, Cambridge University NHS Foundation Trusts</td>
</tr>
<tr>
<td><strong>Dr Peter Carter</strong></td>
<td>Chief Executive &amp; General Secretary, Royal College of Nursing, London</td>
</tr>
<tr>
<td><strong>Mr Roderick Chalmers</strong></td>
<td>Consultant Vascular Surgeon, Royal Infirmary of Edinburgh</td>
</tr>
<tr>
<td><strong>Dr Amit Chawla</strong></td>
<td>Consultant Anaesthetist, St Thomas’ Hospital, London</td>
</tr>
<tr>
<td><strong>Dr Paul Clift</strong></td>
<td>Adult Congenital Cardiologist, University Hospital, Birmingham, Birmingham</td>
</tr>
<tr>
<td><strong>Miss Rachel Clough</strong></td>
<td>NIHR Clinical Lecturer in Vascular Surgery, Guy’s and St Thomas’ NHS Foundation Trust</td>
</tr>
<tr>
<td><strong>Miss Lucy Cogswell</strong></td>
<td>Consultant Plastic &amp; Reconstructive Surgeon, Oxford University Hospitals NHS Trust</td>
</tr>
<tr>
<td><strong>Dr Derek Connelly</strong></td>
<td>Consultant Cardiologist, Glasgow Royal Infirmary</td>
</tr>
<tr>
<td><strong>Dr Campbell Cowan</strong></td>
<td>Retired Consultant Cardiologist, Leeds General Infirmary, Leeds</td>
</tr>
<tr>
<td><strong>David Denning</strong></td>
<td>Professor &amp; Director, National Aspergillosis Centre, University Hospital of South Manchester University of Manchester</td>
</tr>
<tr>
<td><strong>Mr Paola De Coppi</strong></td>
<td>Clinical Reader and Head of the Surgery Unit, UCL Institute of Child Health and Great Ormond Street Hospital, London</td>
</tr>
<tr>
<td><strong>Dr Michael Desmond</strong></td>
<td>Consultant Anaesthetist, Liverpool Heart and Chest Hospital, Liverpool</td>
</tr>
<tr>
<td><strong>Tim Evans</strong></td>
<td>Professor in Intensive Care &amp; Thoracic Medicine, Medical Director &amp; Responsible Officer, Royal Brompton and Harefield NHS Foundation Trust</td>
</tr>
<tr>
<td><strong>Andrew Fisher</strong></td>
<td>Professor of Respiratory Transplant Medicine and Academic Director, Institute of Transplantation, Newcastle University and Freeman Hospital, Newcastle Upon Tyne</td>
</tr>
<tr>
<td><strong>Dr Mike Higgins</strong></td>
<td>Medical Director &amp; Responsible Officer, Golden Jubilee Hospital, Glasgow</td>
</tr>
<tr>
<td><strong>Dr Liz Hood</strong></td>
<td>Anaesthetics Registrar, University Hospital, Bristol</td>
</tr>
<tr>
<td><strong>Ms Maureen Jersby</strong></td>
<td>Senior Lecturer in Adult Nursing, School of Health and Social Care University of Teesside, Middlesbrough</td>
</tr>
<tr>
<td><strong>Mr Haitham Kahlil</strong></td>
<td>Consultant Breast Oncoplasty &amp; Reconstructive Surgeon, Heart of England NHS Foundation Trust</td>
</tr>
<tr>
<td><strong>Ms Rebecca Miles</strong></td>
<td>Director of the National Cardiac Benchmarking Collaborative (NCBC), Oxford</td>
</tr>
<tr>
<td><strong>Mr Pawan Singh Minhas</strong></td>
<td>Consultant Neurosurgeon, St George’s NHS Trust</td>
</tr>
<tr>
<td><strong>Dr Matthew Molyneux</strong></td>
<td>Consultant Anaesthetist, University Hospitals, Bristol</td>
</tr>
<tr>
<td><strong>Mike Morgan</strong></td>
<td>Professor of Respiratory Medicine, Glenfield Hospital, Leicester, UK</td>
</tr>
</tbody>
</table>
Dr Mark O'Neill
Consultant Cardiologist & Reader in Clinical Cardiac Electrophysiology, St Thomas’ Hospital and Kings College London

Mr Simon Phillips
Chair of Education and Training, Society of Clinical Perfusion Scientists of UK and Ireland

Shakeel Qureshi
Professor of Paediatric Cardiology, Guy’s & St Thomas NHS Foundation Trust

Simon Ray
Professor in Cardiology, University Hospitals of South Manchester

Barnaby Reeves
Professor in Health Services Research, Bristol Royal Infirmary, Bristol

Dr David Baldwin
Consultant Respiratory Physician, Nottingham University Hospitals

Richard Booton
Professor of Respiratory Medicine, North West Lung Centre, Manchester

Dr Kevin Franks
St James Institute of Oncology Leeds Cancer Centre, Leeds

Dr Matthew Hatton
Consultant & Honorary Reader in Oncology, Weston Park Hospital, Sheffield

Dr Jason Lester
Consultant Clinical Oncologist Velindre Cancer Centre, Wales

Dr Nick Maskell
Reader in Respiratory Medicine and Consultant Chest Physician University of Bristol and North Bristol NHS Trust

Dr Neal Navani
Consultant Respiratory Physician University College London

Mr Stephen Robins
Clinical Perfusion Manager, New Cross Hospital, Wolverhampton

Dr Dave Royston
Consultant in Cardiothoracic Anaesthesia, Royal Brompton and Harefield NHS Foundation Trust, London

Andrea Spyropoulos
President of the Royal College of Nursing, London

Peter Taylor
Professor of Vascular Surgery, Guy’s and St. Thomas’ NHS Foundation Trust & King’s College London, King’s Health Partners

William Toff
Professor of Cardiology, Glenfield Hospital, Leicester

Mr Lee Van Rensburg
Consultant Orthopaedic Surgeon, Cambridge University Hospitals NHS Trust

Dr Michael Peake
Consultant & Senior Lecturer in Respiratory Medicine, Glenfield Hospital, Leicester

Dr Sanjay Popat
Consultant Medical Oncologist, Royal Marsden Hospital, London

Dr Nagmi Qureshi
Consultant Radiologist, Papworth Hospital NHS Foundation Trust, Cambridge

Dr Robert Rintoul
Consultant Respiratory Physician Papworth Hospital NHS Foundation Trust, Cambridge

Dr Mark Slade
Medical Director, Papworth Hospital NHS Foundation Trust, Cambridge

Dr Ian Woolhouse
Consultant Respiratory Physician and Associate Director National Lung Cancer Audit, University Hospital Birmingham and the Royal College of Physicians

BTOG/BTS Faculty
General Information

The 2014 SCTS Ionescu University, Annual Meeting & Cardiothoracic Forum is at the Edinburgh International Conference Centre from Monday 10th March - Wednesday 12th March 2014

CONTINUING PROFESSIONAL DEVELOPMENT
Delegates will be awarded 7.5 credits of CPD for attendance of the SCTS Ionescu University and 14 credits for attendance at the Annual Meeting. Please note that certificates of attendance will be available online after the conference following completion of an electronic feedback form.

ANNUAL DINNER
The SCTS Annual Dinner will take place on Tuesday 11th March at the Ghillie Dhu. A pre-dinner drinks reception will take place at the Waldorf Astoria Caledonian hotel at 19:30hrs. In keeping with the location there will be a Scottish theme and the dinner includes drinks on arrival and a three-course meal including wine and entertainment. Dress code will be black tie. Tickets are £60 per head and can be purchased from the Registration Desk.

BUSINESS MEETING
The Annual Business Meeting will be held on Tuesday 11th March 2014 between 17:15hrs and 18:45hrs. Please note that the Business Meeting is open to Society members only.

BOARD OF REPRESENTATIVES
The Board of Representatives meeting will be held on Wednesday 12th March 2014 between 13:30hrs and 15:30hrs. This meeting will take place in the Pentland auditorium.

HEART RESEARCH UK LECTURE
David Adams will deliver his lecture on Tuesday 11th March 2014 at 16:00hrs.

REFRESHMENTS AND LUNCH
Complementary tea and coffee will be provided during the official breaks, in the Exhibition Hall. A buffet or packed lunch is included in the registration fee, and will be served in the Lunch Box University Sessions on Monday and the Exhibition Hall on Tuesday.

REGISTRATION
Sunday 9th March 17:00 - 19:00hrs  
Monday 10th March 08:00 - 18:00hrs  
Tuesday 11th March 08:00 - 18:00hrs  
Wednesday 12th March 08:00 - 10:00hrs

POSTERS
All posters should be mounted in their indicated space before 08:30hrs on Tuesday 11th March and should be removed between 11:00hrs and 13:00hrs on Wednesday 12th March. Any posters not collected by 13:00hrs will be removed and disposed of by the organisers.

Sponsors of the Annual Dinner

Sponsors of the WiFi
SATELLITE MEETINGS

Monday 10th March
08:00 - 09:00 Soutra
Education Sub-Committee
Chairmen: Mr Michael Lewis and Mr Rajesh Shah
11:00 - 14:00 Soutra
NICOR Congenital Steering Group
14:00 - 17:00 Carrick
ACSA AGM
15:00 - 18:00 Soutra
Congenital NICOR Audit and Database Meeting
15:30 - 17:00 Ochil 1 & 2
Perfusion Safety Committee
17:30 - 18:30 Ochil 3
Adult Cardiac Surgical Sub-Committee
Chairmen: Mr Tim Graham and Mr David Jenkins

Tuesday 11th March
12:30 - 13:00 Soutra
Congenital Sub-Committee
Chairmen: Mr David Barron and Mr James Roxburgh
08:00 - 09:00 Carrick
Vascutek Congenital Breakfast Session
08:00 - 10:30 Ochil 1 & 2
Cardiac CRG Group
Chairman: Mr Danny Keenan
13:30 - 16:00 Ochil 3
Perfusion College Council Meeting
15:30 - 16:30 Soutra
SCTS Treasurer Interviews
17:15 - 19:00 Soutra
MARS2 Trial Group
Chair: Eric Lim

Wednesday 12th March
08:00 - 09:00 Soutra
Thoracic Sub-Committee
Chairmen: Mr Simon Kendall and Mr David Waller
08:00 - 09:00 Ochil 3
Leader as an Educator Programme Organisers Meeting
12:00 - 13:00 Ochil 3
Exhibitors Meeting
Chairmen: Mr Ian Wilson and Mr Jonathan Hyde
(attendance: Miss Tilly Mitchell)
13:45 - 15:45 Carrick
Cardiothoracic Trainees Research Collaborative
Chair: Claire Burdett
ETHICON Pure Progress
Anastmotic Skills Lab
Exhibition Hall Monday 17:00-20:00 Tuesday 09:00-17:00
Wednesday 09:00-12:00

SPEAKER’S ROOM Harris
All presenters are requested to review their audio-visual material in the Speaker’s room at the following times:
Morning presentations:
by 15:00hrs on the day before presentation
Afternoon presentations:
by 09:30hrs on the day of presentation

TRADE EXHIBITION
The Annual Meeting Trade Exhibition will be held in conjunction with the Meeting and will be open:
• 17:00 on Monday 10th March
• 08:00 on Tuesday 11th March
• 09:00 on Wednesday 12th March
The Exhibition Hall will close at 11:30 on Wednesday 12th March.

WELCOME RECEPTION
There will be a Welcome Reception in the Trade Exhibition, EICC on the evening of Monday 10th March 2014 from 17:00.
The Welcome Reception is included in the registration fee.
**Committees**

**SCTS Executive Committee 2013–2014**

- Mr James Roxburgh  President  2012 – 2014
- Mr Tim Graham  President Elect  2012 – 2014
- Mr Simon Kendall  Honorary Secretary  2013 – 2018
- Mr Malcolm Dalrymple-Hay  Honorary Treasurer  2009 – 2014
- Mr Ian Wilson  Meeting Secretary  2012 – 2017
- Mr Michael Lewis  Joint Education Secretary  2013 – 2018
- Mr Rajesh Shah  Joint Education Secretary  2013 – 2018
- Mr Mick Murphy  Senior Trainee Representative  2012 – 2015
- Mr David McCormack  Junior Trainee Representative  2012 – 2015
- Mrs Christina Bannister  Nursing & Allied Health Representative  2012 – 2017
- Mr Steve Livesey  Chairman of the SAC (demitted office Sep 2013)  2010 – 2013
- Mr Sion Barnard  Chairman of the SAC (commenced office Nov 2013)  2013 – 2016
- Mr Ben Bridgewater  Chairman of the Data Committee  2008 –
- Mr David Waller  Elected member  2011 – 2014
- Mr Graham Venn  Elected member  2011 – 2014
- Mr Jonathan Hyde  Elected member/Deputy Meeting Secretary  2012 – 2015
- Mr Ed Black  Elected member  2012 – 2015
- Mr David Barron  Elected member  2013 – 2016
- Mr David Jenkins  Elected member  2013 – 2016

**Board of Representatives 2013–2014**

- Sion Barnard  Chairman of the SAC
- Jon Anderson  Chairman of Inter-Collegiate Board
- TBC  Cardiothoracic Dean
- TBC  Cardiothoracic Tutor
- Richard Page  Thoracic Audit
- Jim McGuigan  Thoracic Audit
- Andrew Parry  Bristol Children’s Hospital
- Mike Cowen  Castle Hill Hospital
- Kishor Doddakula  Cork University Hospital
- Clinton Lloyd  Derriford Hospital
- Mark Redmond  Dublin Children’s Hospital
- Ted Brackenbury  Edinburgh Royal Infirmary
Inderpaul Birdi Essex Cardiothoracic Centre
Sion Barnard Freeman Hospital
Mark DaCosta Galway Hospital
Gavin Murphy Glenfield Hospital
Geoff Berg Golden Jubilee National Hospital
Victor Tsang Great Ormond Street
Chris Blauth Guy’s and St Thomas’ Hospital
Juliet King Guy’s Hospital
Fabio De Robertis Harefield Hospital
Andrew Goodwin James Cook University Hospital
Rana Sayeed John Radcliffe Hospital
Jatin Desai King’s College Hospital
David O’Regan Leeds General Infirmary
John Chalmers Liverpool Heart & Lung Hospital
Ragheb Hasan Manchester Heart Centre
Karen Redmond Mater Misericordiae Hospital
Aprim Youhana Morriston Hospital
Adrian Levine N. Staffordshire Royal Infirmary
Moninder Bhabra New Cross Hospital, Wolverhampton
David Hopkinson Northern General Hospital
David Richens Nottingham City Hospital (Cardiac)
John Duffy Nottingham City Hospital (Thoracic)
John Dunning Papworth Hospital
Simon Jordan Royal Brompton Hospital (Thoracic)
Rashmi Yadav Royal Brompton Hospital (Cardiac)
J Mark Jones Royal Victoria Hospital
Cliff Barlow Southampton General Hospital
Kulvinder Lall St Bartholomew’s Hospital
Robin Kanagasabay St George’s Hospital
Ellis McGovern St James’ Hospital, Dublin
Andrew Chukwuemeka Hammersmith Hospital
Chris McGregor The Heart Hospital
Uday Trivedi The Royal Sussex County Hospital
Domenico Pagano University Hospital of Birmingham
Indu Deglurkar University Hospital Wales
Ramesh Patel Walsgrave Hospital
Rajesh Shah Wythenshawe Hospital
Alistair Marshall ACSA Representative
Committee Chairs

Mr Leslie Hamilton CEA Committee 2011 – continuing
Mr Ben Bridgewater Data Committee 2008 – continuing
Mr Michael Lewis / Mr Rajesh Shah Education Committee 2013 – 2018
Mr Tim Graham / Mr David Jenkins Cardiac Sub-Committee 2013 – 2016
Mr David Barron / Mr James Roxburgh Congenital Sub-Committee 2013 – 2016
Mr Simon Kendall / Mr David Waller Thoracic Sub-Committee 2010 – continuing

Working Group Chairs

Mr Graham Cooper Commissioning Guidelines 2011 –

Programme Committee 2014 Meeting

Organisers:
Mr Ian Wilson Meeting Secretary
Mr Jonathan Hyde Deputy Meeting Secretary

Lead Reviewers:
Dr David Chambers Adult Cardiac Scientific
Mr Steve Clark Advanced Heart & Lung Failure Surgery (miscellaneous)
Mr Malcolm Dalrymple-Hay Adult Cardiac Clinical
Mr Sion Barnard Thoracic
Mr Rajesh Shah
Prof Ben Bridgewater Adult Cardiac Clinical
Mr Tim Jones Congenital
Mrs Christina Bannister CT Forum

Abstract Reviewers 2014 Meeting

Adult Cardiac Clinical: Prof Ben Bridgewater (lead)
Mr Malcolm Dalrymple-Hay (lead)
Mr Vassilios Avlonitis
Mr Geoff Berg
Mr Joel Dunning
Mr Andrew Goodwin
Mr Ian Mitchell
Mr Neeraj Mediratta
Mr Mike Poullis
Mr Mark Pullan
Congenital: Mr Tim Jones (lead)
Mr Olivier Ghez
Mr Asif Hasan
Mr Prem Venugopal

Adult Cardiac Scientific: Dr David Chambers (lead)
Mr John Dark
Mr David Jenkins
Mr Clinton Lloyd
Mr Gavin Murphy
Mr Alex Shipolini

Thoracic: Mr Sion Barnard/Mr Rajesh Shah (lead)
Mr David Waller
Mr Ian Hunt
Mr Eric Lim
Mr Ehab Bishay

Advanced Heart & Lung Failure Surgery (& miscellaneous):
Mr Steve Clark (lead)
Mr Jorge Mascaro
Ms Sukumaran Nair
Ms Catherine Sudarshan
Mr Nizar Yonan

CT Forum: Mrs Christina Bannister
Ms Tara Bartley
Mr Calum Buchanan
Ms Helen Munday

**Specialist Advisory Committee in Cardiothoracic Surgery 2013–2014**
(A Sub-committee of the Joint Committee for Surgical Training)

<table>
<thead>
<tr>
<th>Name</th>
<th>Representing</th>
<th>Tenure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mr Sion Barnard</td>
<td>Chairman &amp; SCTSGBI representative</td>
<td>2013–2016</td>
</tr>
<tr>
<td>TBC</td>
<td>Specialty Dean of SCTS &amp; SCTSGBI representative</td>
<td>2014</td>
</tr>
<tr>
<td>Mr Jonathan Hyde</td>
<td>Joint College representative</td>
<td>2009–2014</td>
</tr>
<tr>
<td>Prof Marjan Jahangiri</td>
<td>SCTSGBI representative</td>
<td>2013–2018</td>
</tr>
<tr>
<td>Mr Simon Kendall</td>
<td>SCTSGBI representative</td>
<td>2011–2016</td>
</tr>
<tr>
<td>Mr Michael Lewis</td>
<td>MRCS representative/lead Simulation Lead (co-opted member)</td>
<td>2010–2015</td>
</tr>
<tr>
<td>Mr David McCormack</td>
<td>Trainee representative (junior)</td>
<td>2012–</td>
</tr>
<tr>
<td>Mr Michael Lewis</td>
<td>SCTSGBI representative Education Secretaries SCTS</td>
<td>2013–2018</td>
</tr>
<tr>
<td>Mr Mick Murphy</td>
<td>Trainee representative (senior)</td>
<td>2012–</td>
</tr>
<tr>
<td>Mr Peter O’Keefe</td>
<td>Joint College representative</td>
<td>2009–2014</td>
</tr>
</tbody>
</table>
Dr Simon Plint  Lead Dean  2011 – 2012
Mr Sai Prasad  SCTSGBI representative  2013 – 2018
Prof Mark Redmond  Joint College representative (Republic of Ireland)  2011 – 2016
Mr Steve Rooney  SCTSGBI representative  2011 – 2016
Mr Rajesh Shah  SCTSGBI representative  2013 – 2018
Mr Geoff Tsang  Joint College representative  2011 – 2016
Mr Jonathan Unsworth-White  SCTSGBI representative  2009 – 2014
Mr David Waller  SCTSGBI representative  2013 – 2018

Intercollegiate Board in Cardiothoracic Surgery  
2013–2014

Mr John Anderson  Chairman  6/2013 – 5/2016
Mr Mike Lewis  Representative of the Society for Cardiothoracic Surgery  4/2012 – 3/2017
Mr Steve Livesey  Chairman SAC in Cardiothoracic Surgery  1/2011 – 12/2013
Mr Mark Jones  Representative of the Royal College of Surgeons of England  6/2012 – 5/2017
Mr John Hinchion  Representative of the Royal College of Surgeons in Ireland  7/2013 – 7/2018
Mr Clifford Barlow  Representative of the Royal College of Physicians and Surgeons of Glasgow  4/2012 – 3/2017
Mr Jim McGuigan  Representative of the Royal College of Surgeons of Edinburgh  12/2012 – 11/2017
Mr Sion Barnard  Representative of the Society for Cardiothoracic Surgery (took on role of SAC Chair from January 2014)  9/2009 – 1/2015
## Society Representatives on Other Bodies

<table>
<thead>
<tr>
<th>Organisation</th>
<th>Representative</th>
<th>Tenure (Inclusive)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Senate and Federation of Surgical Specialist Associations</td>
<td>James Roxburgh</td>
<td>2012 – 2014</td>
</tr>
<tr>
<td>Surgical Sub-Committee of the Central Consultants and Specialists Committee</td>
<td>James Roxburgh</td>
<td>2012 – 2014</td>
</tr>
<tr>
<td>Expert Group for Cardiac Surgery at NCEPOD</td>
<td>Steve Livesey / James Roxburgh</td>
<td>Not defined</td>
</tr>
<tr>
<td>Council of the College of Clinical Perfusion Scientists of GB &amp; Ireland</td>
<td>Thasee Pillay / Heyman Luckraz</td>
<td>2013 – 2016</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2014 – 2017</td>
</tr>
<tr>
<td>British Standards Authority</td>
<td>Chandi Ratnatunga</td>
<td>Not defined</td>
</tr>
<tr>
<td>Medical Devices Agency (MHRA)</td>
<td>Steve Hunter</td>
<td>Not defined</td>
</tr>
<tr>
<td>Outpatient HRG Group</td>
<td>Ben Bridgewater</td>
<td>For duration of project</td>
</tr>
<tr>
<td>Strategic Group for National Heart Valve Contracts</td>
<td>Steve Livesey</td>
<td>Not defined</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Unlimited tenure</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ad hoc group</td>
</tr>
<tr>
<td>Professional Standards and Peer Review Committee (British Cardiac Society)</td>
<td>Simon Kendall</td>
<td>2013 – 2018</td>
</tr>
<tr>
<td>Childrens’ Surgical Forum</td>
<td>Andrew Parry</td>
<td>2007 –</td>
</tr>
<tr>
<td>RCSE Specialty Advisory Board</td>
<td>Simon Kendall</td>
<td>TBC</td>
</tr>
<tr>
<td>Organisation</td>
<td>Representative</td>
<td>Tenure (Inclusive)</td>
</tr>
<tr>
<td>--------------------------------------------------</td>
<td>-------------------------</td>
<td>---------------------------</td>
</tr>
<tr>
<td>TEARS</td>
<td>Chris Blauth</td>
<td>Not defined</td>
</tr>
<tr>
<td>Intercollegiate Lung Cancer Group (LUCADA data project)</td>
<td>Richard Berrisford (William Fountain)</td>
<td>2001 –</td>
</tr>
<tr>
<td>Tripartite Group (Dept of Health, Healthcare Commission and SCTS)</td>
<td>Ben Bridgewater/ James Roxburgh</td>
<td>Undetermined</td>
</tr>
<tr>
<td>Specialist Adviser to NICE</td>
<td>Vacant Post</td>
<td></td>
</tr>
<tr>
<td>Academic Research Board Royal College of Surgeons of England</td>
<td>Domenico Pagano</td>
<td>2007 –</td>
</tr>
<tr>
<td>UEMS</td>
<td>John Duffy (Thoracic)</td>
<td>2008 –</td>
</tr>
<tr>
<td>BMA Consultants Committee (CCSC)</td>
<td>Edward Black</td>
<td>2012 -</td>
</tr>
<tr>
<td>BTS (Lung Cancer Guidelines)</td>
<td>John Duffy</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Jim McGuigan</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Richard Berrisford</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Richard Page</td>
<td></td>
</tr>
<tr>
<td>BTS (Recommendations on Air Travel and Lung Disease)</td>
<td>Edward Black</td>
<td></td>
</tr>
<tr>
<td>Royal College of Surgeons in Ireland Vice President</td>
<td>Eilis McGovern</td>
<td></td>
</tr>
<tr>
<td>Royal College of Surgeons in Ireland Member of Council</td>
<td>A E Wood</td>
<td></td>
</tr>
<tr>
<td>Royal College of Surgeons of England Working Party on the International Role of the College</td>
<td>David Anderson</td>
<td>2009 –</td>
</tr>
<tr>
<td>DoH Clinical Advisory Group Major Trauma Network ‘Acute Care &amp; Surgery’ Subgroup</td>
<td>Andrew Cohen</td>
<td>6-12 months commencing Sept 2009</td>
</tr>
<tr>
<td>Organisation</td>
<td>Representative</td>
<td>Tenure (Inclusive)</td>
</tr>
<tr>
<td>--------------------------------------------------</td>
<td>------------------</td>
<td>--------------------------</td>
</tr>
<tr>
<td></td>
<td></td>
<td>12 months initially chaired by London Trauma Director, Fiona Moore</td>
</tr>
<tr>
<td>CORESS</td>
<td>Stephen Clark</td>
<td>2010 –</td>
</tr>
<tr>
<td>CCAD – Paediatric Representative</td>
<td>Andrew McLean</td>
<td>2010 –</td>
</tr>
<tr>
<td>TAVI Steering Committee</td>
<td>Neil Moat</td>
<td>2009 –</td>
</tr>
<tr>
<td>National Surgical Fellowship Scheme</td>
<td>Michael Lewis</td>
<td>2013 -</td>
</tr>
<tr>
<td></td>
<td>Rajesh Sah</td>
<td></td>
</tr>
<tr>
<td>BCS Academic &amp; Research Committee</td>
<td>Gavin Murphy</td>
<td>2013 -</td>
</tr>
<tr>
<td>Joint Committee on Revalidation</td>
<td>Steve Livesey</td>
<td>Demitted 2013</td>
</tr>
<tr>
<td>BMA Consultants Committee Specialty Lead</td>
<td>Simon Kendall</td>
<td>2013 -</td>
</tr>
<tr>
<td>Electronic Reference Group</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### List of Presidents

<table>
<thead>
<tr>
<th>Year</th>
<th>President</th>
</tr>
</thead>
<tbody>
<tr>
<td>1934</td>
<td>Mr H Morrison Davies</td>
</tr>
<tr>
<td>1936</td>
<td>Mr J R H Roberts</td>
</tr>
<tr>
<td>1938</td>
<td>Mr A Tudor Edwards</td>
</tr>
<tr>
<td>1945</td>
<td>Mr J B Hunter</td>
</tr>
<tr>
<td>1947</td>
<td>Mr W M Anderson</td>
</tr>
<tr>
<td>1948</td>
<td>Mr R B Purse</td>
</tr>
<tr>
<td>1950</td>
<td>Mr A Graham Bryce</td>
</tr>
<tr>
<td>1952</td>
<td>Sir C Price Thomas</td>
</tr>
<tr>
<td>1954</td>
<td>Mr H Reid</td>
</tr>
<tr>
<td>1956</td>
<td>Mr B Dick</td>
</tr>
<tr>
<td>1958</td>
<td>Sir R Brock</td>
</tr>
<tr>
<td>1959</td>
<td>Mr G A Mason</td>
</tr>
<tr>
<td>1961</td>
<td>Sir T Holmes Sellors</td>
</tr>
<tr>
<td>1963</td>
<td>Mr R F J Henry</td>
</tr>
<tr>
<td>1964</td>
<td>Mr N R Barrett</td>
</tr>
<tr>
<td>1966</td>
<td>Mr V C Thompson</td>
</tr>
<tr>
<td>1968</td>
<td>Mr P R Allison</td>
</tr>
<tr>
<td>1969</td>
<td>Mr A L d’Abreu</td>
</tr>
<tr>
<td>1970</td>
<td>Mr A Logan</td>
</tr>
<tr>
<td>1971</td>
<td>Mr O S Tubbs</td>
</tr>
<tr>
<td>1972</td>
<td>Mr F R Edwards</td>
</tr>
<tr>
<td>1973</td>
<td>Mr J L Collis</td>
</tr>
<tr>
<td>1974</td>
<td>Mr R H R Belsey</td>
</tr>
<tr>
<td>1975</td>
<td>Mr R S Barclay</td>
</tr>
<tr>
<td>1976</td>
<td>Mr W P Cleland</td>
</tr>
<tr>
<td>1977</td>
<td>Mr H R S Harley</td>
</tr>
<tr>
<td>1978</td>
<td>Mr R Abbey-Smith</td>
</tr>
<tr>
<td>1979</td>
<td>Mr R P Moore</td>
</tr>
<tr>
<td>1980</td>
<td>Mr J R Belcher</td>
</tr>
<tr>
<td>1981</td>
<td>Mr M Bates</td>
</tr>
<tr>
<td>1982</td>
<td>Mr J M Hill</td>
</tr>
<tr>
<td>1983</td>
<td>Mr J F Dark</td>
</tr>
<tr>
<td>1984</td>
<td>Mr D N Ross</td>
</tr>
<tr>
<td>1985</td>
<td>Mr M Paneth</td>
</tr>
<tr>
<td>1986</td>
<td>Mr M V Baimbridge</td>
</tr>
<tr>
<td>1987</td>
<td>Sir K Ross</td>
</tr>
<tr>
<td>1988</td>
<td>Professor W H Bain</td>
</tr>
<tr>
<td>1989</td>
<td>Mr W G Williams</td>
</tr>
<tr>
<td>1991</td>
<td>Professor D I Hamilton</td>
</tr>
<tr>
<td>1992</td>
<td>Professor G H Smith</td>
</tr>
<tr>
<td>1994</td>
<td>Mr B Ross</td>
</tr>
<tr>
<td>1995</td>
<td>Mr J Bailey</td>
</tr>
<tr>
<td>1996</td>
<td>Professor H Matthews</td>
</tr>
<tr>
<td>1997</td>
<td>Professor D Wheatley</td>
</tr>
<tr>
<td>1999</td>
<td>Mr J Dussek</td>
</tr>
<tr>
<td>2000</td>
<td>Mr J Monro</td>
</tr>
<tr>
<td>2002</td>
<td>Mr C Hilton</td>
</tr>
<tr>
<td>2004</td>
<td>Mr P Magee</td>
</tr>
<tr>
<td>2006</td>
<td>Professor Sir B Keogh</td>
</tr>
<tr>
<td>2008</td>
<td>Mr L Hamilton</td>
</tr>
<tr>
<td>2010</td>
<td>Professor D Taggart</td>
</tr>
<tr>
<td>2012</td>
<td>Mr J Roxburgh</td>
</tr>
</tbody>
</table>
# 10-Year Meeting History

<table>
<thead>
<tr>
<th>Year</th>
<th>Location</th>
<th>City</th>
</tr>
</thead>
<tbody>
<tr>
<td>2004</td>
<td>Beau Sejour Centre</td>
<td>Guernsey</td>
</tr>
<tr>
<td>2005</td>
<td>Olympia Conference Centre</td>
<td>London</td>
</tr>
<tr>
<td>2006</td>
<td>CityWest Conference Centre</td>
<td>Dublin</td>
</tr>
<tr>
<td>2007</td>
<td>Manchester International Convention Centre</td>
<td>Manchester</td>
</tr>
<tr>
<td>2008</td>
<td>Edinburgh International Conference Centre</td>
<td>Edinburgh</td>
</tr>
<tr>
<td>2009</td>
<td>Bournemouth International Centre</td>
<td>Bournemouth</td>
</tr>
<tr>
<td>2010</td>
<td>Arena &amp; Convention Centre</td>
<td>Liverpool</td>
</tr>
<tr>
<td>2011</td>
<td>ExCel London</td>
<td>Liverpool</td>
</tr>
<tr>
<td>2012</td>
<td>Manchester Central - Joint with ACTA</td>
<td>Manchester</td>
</tr>
<tr>
<td>2013</td>
<td>The Brighton Centre</td>
<td>Brighton</td>
</tr>
<tr>
<td>2014</td>
<td>Edinburgh International Conference Centre</td>
<td>Edinburgh</td>
</tr>
</tbody>
</table>
Prizes & Scholarships

SCTS 2013 Prize Winners
Ronald Edwards Medal E Teh
John Parker Medal M Yates
Society Thoracic Medal R Jones
Society Cardiothoracic Forum Medal J Cook
Patrick Magee Medal G Walkden
Bob Bonser Aortic Surgery Prize R Attia
BASO Prize M Smith

The winners will be presented with their medals at the annual dinner.

SCTS 2014 Awards
Ronald Edwards Medal Best scientific oral presentation
John Parker Medal Best clinical presentation
Society Thoracic Medal Best thoracic presentation
Society Cardiothoracic Forum Medal Best CT Forum presentation
Patrick Magee Medal Best student poster presentation
Bob Bonser Aortic Surgery Prize Best presentation on aortic surgery
BASO Prize Best presentation involving cancer

The winners will be announced by email after the annual meeting.

SCTS 2014 Scholarships

The Marian & Christina Ionescu Travelling Scholarship
<table>
<thead>
<tr>
<th>Location</th>
<th>8.00</th>
<th>9.00</th>
<th>10.00</th>
<th>11.00</th>
<th>12.00</th>
<th>13.00</th>
<th>14.00</th>
<th>15.00</th>
<th>16.00</th>
<th>17.00</th>
<th>18.00</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pentland</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Multispecialty Thoracic Surgery</td>
<td></td>
<td></td>
<td>Advances in Management of Sepsis in Thoracic Surgery</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fintry</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>A Masterclass in Atrial Fibrillation Surgery</td>
<td></td>
<td></td>
<td>A Masterclass in Atrial Fibrillation Surgery</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tinto</td>
<td></td>
<td></td>
<td></td>
<td>Coronary Artery Surgery</td>
<td></td>
<td></td>
<td></td>
<td>Coronary Artery Surgery</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Moorfoot</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>TAVI</td>
<td></td>
<td></td>
<td>Aortic Dissection and Aortic Arch Surgery</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kilsyth</td>
<td></td>
<td>Simulation in Thoracic Surgery</td>
<td></td>
<td></td>
<td>Chest Wall Trauma</td>
<td></td>
<td></td>
<td>Innovations in Thoracic Surgery</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carrick</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Complex Wound Healing</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ochil 1 &amp; 2</td>
<td></td>
<td>Orpheus Perfusion Workshop</td>
<td></td>
<td></td>
<td>Orpheus Perfusion Workshop</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Exhibition Hall</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Welcome Reception</td>
<td></td>
</tr>
</tbody>
</table>
### Tuesday 11 Mar Timetable

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>08.00</td>
<td>Evolution of Cardiac Surgical Care</td>
</tr>
<tr>
<td>09.00</td>
<td>Improving Outcomes - Quality</td>
</tr>
<tr>
<td>10.00</td>
<td>Sidlaw</td>
</tr>
<tr>
<td>11.00</td>
<td>Tinto</td>
</tr>
<tr>
<td>12.00</td>
<td>Annual Business Meeting</td>
</tr>
<tr>
<td>13.00</td>
<td>Quality &amp; Efficiency Markers in Cardiac Surgery</td>
</tr>
<tr>
<td>14.00</td>
<td>Pushing the Boundaries in Stage 1 NSCLC</td>
</tr>
<tr>
<td>15.00</td>
<td>Clinical Thoracic Surgery Training</td>
</tr>
<tr>
<td>16.00</td>
<td>Contemporary Mitral Valve Surgery</td>
</tr>
<tr>
<td>17.00</td>
<td>Thoracic Surgical Movies</td>
</tr>
<tr>
<td>18.00</td>
<td>Cardiac Surgical Movies</td>
</tr>
<tr>
<td>08.00</td>
<td>Plenary Cardiothoracic Surgery</td>
</tr>
<tr>
<td>09.00</td>
<td>Pentland-held kto Fintry, Sidlaw, Tinto, Kilsyth, Carrick</td>
</tr>
<tr>
<td>10.00</td>
<td>The Future of Congenital Heart Surgery</td>
</tr>
<tr>
<td>11.00</td>
<td>Congenital Abstracts 1</td>
</tr>
<tr>
<td>12.00</td>
<td>Congenital Abstracts 2</td>
</tr>
<tr>
<td>13.00</td>
<td>Hypoplastic Left Heart Syndrome</td>
</tr>
<tr>
<td>14.00</td>
<td>Cardiothoracic Surgical Movies</td>
</tr>
<tr>
<td>15.00</td>
<td>The Future of Congenital Heart Surgery</td>
</tr>
<tr>
<td>16.00</td>
<td>Annual Business Meeting</td>
</tr>
<tr>
<td>17.00</td>
<td>Vascutek Breakfast Symposium</td>
</tr>
<tr>
<td>18.00</td>
<td>Cardiac Surgical Movies</td>
</tr>
<tr>
<td>08.00</td>
<td>Plenary Cardiothoracic Surgery</td>
</tr>
<tr>
<td>09.00</td>
<td>Pentland-held kto Fintry, Sidlaw, Tinto, Kilsyth, Carrick</td>
</tr>
<tr>
<td>10.00</td>
<td>The Future of Congenital Heart Surgery</td>
</tr>
<tr>
<td>11.00</td>
<td>Congenital Abstracts 1</td>
</tr>
<tr>
<td>12.00</td>
<td>Congenital Abstracts 2</td>
</tr>
<tr>
<td>13.00</td>
<td>Hypoplastic Left Heart Syndrome</td>
</tr>
<tr>
<td>14.00</td>
<td>Cardiothoracic Surgical Movies</td>
</tr>
<tr>
<td>15.00</td>
<td>The Future of Congenital Heart Surgery</td>
</tr>
<tr>
<td>16.00</td>
<td>Annual Business Meeting</td>
</tr>
<tr>
<td>17.00</td>
<td>Vascutek Breakfast Symposium</td>
</tr>
<tr>
<td>18.00</td>
<td>Cardiac Surgical Movies</td>
</tr>
</tbody>
</table>
Aesculap® CVT Instrumentation
Your partner of choice in Cardiovascular and Thoracic Surgery

For over 140 years Aesculap, part of B. Braun Medical Ltd, has been at the cutting edge of surgical instrument design and manufacture.

Aesculap offer an extensive cardiovascular instrument portfolio including a wide range of high quality precision micro instruments. Available in both traditional stainless steel or lighter titanium, these are designed to provide the cardiac surgeon with delicate yet durable tools that modern surgical techniques demand.

To view and handle our extensive range of micro instruments, or to try your skills on the MIVS trainer using our innovative Einstein Vision 3D camera, please visit the B. Braun stand at this years SCTS.
Mr Marian Ionescu, a pioneering cardiac surgeon in Leeds from 1966-1987, dedicated his life to cardiac surgical innovation and education. His achievements are numerous and include the creation and development of the pericardial heart valve; an innovation that proved to be a major, sustained advance in heart valve surgery. Current day clinical practice continues to be influenced by Mr Ionescu's pioneering work in Leeds, with the pericardial heart valve used in both heart valve surgery and transcatheter aortic valve implantation around the world. His inspirational life's work led him to create the Marian and Christina Ionescu Travelling Scholarships from which many society members have benefited in developing sub-specialty interests in surgical practice over the last decade.

Mr Ionescu's national and international reputation in cardiothoracic surgery, alongside his devotion to advancing clinical cardiothoracic surgery and surgical education in the UK, mirror the ambitions of the society in its current development. In recognition of his enormous contribution to UK cardiothoracic surgery the SCTS has added the Ionescu name to the SCTS University to reflect the motivation of his work. The Edinburgh meeting will host the inaugural SCTS Ionescu University.
GOLD SPONSORS

BRAUN  
SHARING EXPERTISE

pulmonX  
Interventional Pulmonology

St. Jude Medical

SILVER SPONSORS

EUSA Pharma

Fannin  
Caring for life

MAQUET  
GETINGE GROUP

medela

MEDISTIM

SIEMENS

smith&nephew

ASSOCIATE SPONSORS

CryoLife Europa

Life Restoring Technologies®
SCTS University Educational Streams

- Contemporary Aortic Surgery
- A Masterclass in Atrial Fibrillation Surgery
- Coronary Artery Surgery: The Evidence behind Decision Making
- State of the Art Mitral Valve Surgery
- Multispecialty Thoracic Surgery
- Simulation in Thoracic Surgery
- Advances in Management of Sepsis in Thoracic Surgery
- Innovations in Thoracic Surgery

Lunch Box Sessions

- Advances in Management of Emphysema
- TAVI
- Minimal Access Mitral Valve Surgery
- Complex Wound Healing: Prophylaxis and Treatment
- Advances in Management of Chest Wall Trauma
- Minimal Access Aortic Valve Surgery
- Haemostatic Adjuncts: Understanding the Options

Orpheus Perfusion Workshops
Contemporary Aortic Surgery

Aortic Dissection Surgery:
The Interface with Vascular Surgery

Mon, March 10, 2014
Moorfoot: 14:00 - 15:20

The Changing Face of Aortic Dissection Surgery
Moderation: C. Young¹, O. Wendler¹, R. Deshpande¹,
G. Asimakopoulos²;
¹ London/UK, ² Bristol/UK

14:00 - 14:10
7 - Cannulation Strategies in Acute Type A Aortic
Dissection Surgery
M. Sabetai;
London/UK

14:10 - 14:25
8 - Evolving Strategies in Acute Type A Aortic Dissection
Surgery
J. Elefteriades;
New Haven/US

14:25 - 14:30
Discussion

14:30 - 14:45
10 - Evolving Strategies in the Management of Type B
Aortic Dissection
H. Safi; Texas/US

14:45 - 14:50
Discussion

14:50 - 15:05
12 - Hybrid Approaches and the Consequences of Extra-
Anatomic Bypasses
P. Taylor;
London/UK

15:05 - 15:20
13 - Type B Aortic Dissection: Assessing the Risk of Rupture
and Planning Endovascular Repairs
R. Clough;
London/UK

15:20 - 15:20
Discussion & Closure
Contemporary Aortic Surgery

Aortic Arch Surgery
Mon, March 10, 2014
Moorfoot: 15:25 - 17:00

Contemporary Surgical Management of Aortic Arch Pathology
Moderation: C. Young, A. Oo, G. Tsang, M. Petrou, J. Kuo;
1 London/UK, 2 Liverpool/UK, 3 Southampton/UK, 4 Oxford/UK, 5 Plymouth/UK

15:25 - 15:35
1 - Arterial Cannulation in Aortic Arch Surgery
M. Sabetai; London/UK

15:35 - 15:50
2 - Strategies to Minimise Brain Injury in Aortic Arch Surgery
D. Harrington; Liverpool/UK

15:50 - 16:05
3 - Cerebral Monitoring During Aortic Arch Surgery
A. Chawla; London/UK

16:05 - 16:20
4 - The Different Surgical Options for Aortic Arch Replacement
J. Elefteriades; New Haven/US

16:20 - 16:35
5 - Open Surgery and/or Endovascular Stenting in the Treatment of Aortic Arch and Thoracoabdominal Aorta Pathology
H. Safi; Texas/UK

16:35 - 16:50
6 - The Frozen Elephant Trunk: Indications, Technique and Results
A. Oo; Liverpool/UK

16:50 - 17:00
Discussion
A Masterclass in Atrial Fibrillation Surgery
Mon, March 10, 2014
Fintry: 09:00 - 10:40
Atrial Fibrillation in Context
Moderation: P. Braidley¹, C. Blauth², J. Zacharias³;
¹ Sheffield/UK, ² London/UK, ³ Blackpool/UK
09:00 - 09:20
16 - The Atrial Fibrillation Epidemic: Implications for Commissioning
D. Connelly; Glasgow/UK
09:20 - 09:40
15 - Clinical Excellence for Atrial Fibrillation: NICE Guidance
C. Cowan; Leeds/UK
09:40 - 10:00
17 - Evolution of the Surgical Maze Procedure
J. Cox; St Louis/US
10:00 - 10:20
Discussion

A Masterclass in Atrial Fibrillation Surgery
Mon, March 10, 2014
Fintry: 10:40 - 12:00
Concomitant Atrial Fibrillation Surgery: Achieving and Defining Success
Moderation: C. Blauth¹, T. Bahrami¹, P. Ridley³;
¹ London/UK, ² Stoke-on-Trent/UK
10:40 - 11:00
19 - Many Energy Sources, Many Devices
M. Dalrymple-Hay; Plymouth/UK
11:00 - 11:20
20 - How should we Measure Outcomes after AF Ablation?
M. O’Neill; London/UK
11:20 - 11:40
21 - Who should have Concomitant AF Ablation? Lessons from the AMAZE Trial
S. Nashef; Cambridge/UK
11:40 - 12:00
Discussion
A Masterclass in Atrial Fibrillation Surgery

Mon, March 10, 2014
Fintry: 14:00 - 15:20

Management of the Left Atrial Appendage
Moderation: P. Braidley¹, M. Lewis², A. Tang³, S. Billing⁴;
¹ Sheffield/UK, ² Brighton/UK, ³ Blackpool/UK, ⁴ Wolverhampton/UK

14:00 - 14:20
23 - Left Atrial Appendage Closure: The Evidence Base
J. Dunning; Middlesbrough/UK

14:20 - 14:40
24 - Surgical Options for the Left Atrial Appendage
S. Salzberg; Zurich/CH

14:40 - 15:00
25 - Technological Advances in Managing the Left Atrial Appendage
S. Benussi; San Raffaele/IT

15:00 - 15:20
Discussion

A Masterclass in Atrial Fibrillation Surgery

Mon, March 10, 2014
Fintry: 15:40 - 17:00

Management of Lone Atrial Fibrillation and Future Developments
Moderation: J. Zacharias¹, J. Cox¹, A. Yilmaz³;
¹ Blackpool/UK, ² St Louis/US, ³ Amsterdam/NL

Lone AF Ablation Techniques

15:40 - 15:55
28 - Unilateral Thoracoscopic Approach
G. Biserli; Brescia/IT

15:55 - 16:10
29 - Laparoscopic Convergent Procedure
B. Gersak; Ljubljana/SI

16:10 - 16:25
30 - Hybrid Approach
M. La Meir; Maastricht/NL

16:25 - 16:40
31 - VATS Ablation
M. Castella; Barcelona/ES

The Future

16:40 - 16:55
33 - Looking Ahead: The Future for Surgical Management of Atrial Fibrillation
J. Cox; St Louis/UK

16:55 - 17:00
Discussion
Coronary Artery Surgery: The Evidence behind Decision Making

Mon, March 10, 2014
Tinto: 09:00 - 10:25

Implementing the ESC-EACTS Guidelines on Myocardial Revascularisation: A Case Based Discussion
Moderation: D. Taggart¹, J. Pepper², A. de Souza³;
¹ Oxford/UK, ² London/UK

Proximal LAD Disease causing Stable Angina

09:00 - 09:05
36 - Case Presentation

09:05 - 09:15
37 - Surgery is Preferred
G. Laufer; Vienna/AT

09:15 - 09:25
38 - PCI is Preferred
C. Hamm; Bad Nauheim/DE

09:25 - 09:35
39 - What do the Guidelines Say?
P. Kolh;
Liege/BE

09:35 - 09:40
40 - Case Outcome

Multivessel Disease causing N-STEMI

09:40 - 09:45
42 - Case Presentation

09:45 - 09:55
43 - Surgery is Preferred
G. Laufer; Vienna/AT

09:55 - 10:05
44 - PCI is Preferred
C. Hamm; Bad Nauheim/DE

10:05 - 10:15
45 - What do the Guidelines say?
P. Kolh; Liege/BE

10:15 - 10:20
46 - Case Outcome

10:20 - 10:25
47 - Take Home Messages
D. Taggart; Oxford/UK
Coronary Artery Surgery: The Evidence behind Decision Making

Mon, March 10, 2014
Tinto: 10:40 - 12:00

**Importance of Completeness of Myocardial Revascularisation: Evolving Concepts**

Moderation: P. Kolh¹, D. Keenan², R. Sayeed³, S. Prasad⁴;
¹ Liege/BE, ² Manchester/UK, ³ Oxford/UK, ⁴ Edinburgh/UK

10:40 - 11:00
49 - Review of the Evidence for PCI
C. Hamm; Bad Nauheim/DE

11:00 - 11:20
48 - Review of the Evidence for CABG
P. Kolh; Liege/BE

11:20 - 11:40
50 - Anatomy versus Function
C. Hamm; Bad Nauheim/DE

11:40 - 11:55
Discussion

11:55 - 12:00
52 - Take Home Messages
D. Taggart; Oxford/UK

Coronary Artery Surgery: The Evidence behind Decision Making

Mon, March 10, 2014
Tinto: 14:00 - 15:20

**“OPCAB Surgery should be Abandoned”**: What is the Real position?

Moderation: V. Zamvar¹, S. Kendall², D. Taggart³;
¹ Edinburgh/UK, ² Middlesbrough/UK, ³ Oxford/UK

14:00 - 14:20
53 - Pro OPCAB
M. Sousa Uva; Lisbon/PT

14:20 - 14:40
54 - Against OPCAB
J. Pepper; London/UK

14:40 - 14:50
55 - Cardiologist's View on OPCAB
C. Hamm; Bad Nauheim/DE

14:50 - 15:05
Discussion

15:05 - 15:15
57 - Take Home Messages
S. Kendall; Middlesbrough/UK
Coronary Artery Surgery: The Evidence behind Decision Making

Mon, March 10, 2014
Tinto: 15:40 - 17:00

Total Arterial Revascularisation
Moderation: D. Taggart¹, A. Levine¹, P. Kolh³, M. Amrani⁴;
¹ Oxford/UK, ² Stoke-on-Trent/UK, ³ Liege/BE, ⁴ London/UK

15:40 - 16:00
58 - Bilateral Internal Mammary Artery Grafting
D. Taggart; Oxford/UK

16:00 - 16:20
59 - Radial Artery Usage in CABG
M. Sousa Uva; Lisbon/PT

16:20 - 16:35
60 - Can assessment of Graft Flow Improve the Success of Surgical Revascularisation?
V. Zamvar; Edinburgh/UK

16:35 - 16:50
61 - Did we Succeed in Improving Results of CABG?
P. Kolh; Liege/BE

16:50 - 16:55
62 - Take Home Messages
D. Taggart¹, P. Kolh³;
¹ Oxford/UK, ³ Liege/BE
State of the Art Mitral Valve Surgery
Mon, March 10, 2014
Sldlaw: 09:00 - 10:20

Degenerative Mitral Valve Disease: Respect or Resect
Moderation: R. Patel¹, P. Punjabi², M. Bhabra³;
¹Coventry/UK, ²London/UK, ³Birmingham/UK

09:00 - 09:15
63 - The Respect Philosophy
N. Moat; London/UK

09:15 - 09:30
64 - The Resect Philosophy
D. Adams; New York/US

09:30 - 09:45
65 - A Hybrid Philosophy
F. Wells; Cambridge/UK

09:45 - 10:00
66 - Developing a Personal Philosophy
H. Vanermen; St Luc/BE

10:00 - 10:20
Discussion

State of the Art Mitral Valve Surgery
Mon, March 10, 2014
Sldlaw: 10:40 - 12:00

Early Intervention
Moderation: R. Uppal¹, F. Wells², B. Bridgewater³;
¹London/UK, ²Cambridge/UK, ³Manchester/UK

10:40 - 10:42
68 - An Asymptomatic Patients presents......
B. Bridgewater, Manchester/UK

10:42 - 10:57
69 - The Argument for Early Intervention
I. Ahmed; Brighton/UK

10:57 - 11:12
70 - The Argument for Watchful Waiting
R. Rosenhek; Vienna/AT

11:12 - 11:27
71 - What is not yet known?
D. Adams; New York/US

11:27 - 11:42
72 - Overview of the UK Trial
S. Ray; Manchester/UK

11:42 - 11:44
73 - An Asymptomatic Patient Presents......
B. Bridgewater; Manchester/UK

11:44 - 12:00
Discussion
State of the Art Mitral Valve Surgery

Mon, March 10, 2014
Sidlaw: 14:00 - 15:20

Changes in the Commissioning of Mitral Valve Surgery
Moderation: S. Nair, B. Bridgewater, C. Barlow, D. Richens;
1 Newcastle/UK, 2 Manchester/UK, 3 Southampton/UK, 4 Nottingham/UK
14:00 - 14:15
75 - Current Status of UK Mitral Valve Surgery
B. Bridgewater; Manchester/UK
14:15 - 14:30
76 - Service Specification and Outcomes
S. Ray; Manchester/UK
14:30 - 14:40
77 - Achieving Change
J. Dark; Newcastle/UK
14:40 - 14:50
78 - Emerging thoughts from the Valve CRG
N. Briffa; Sheffield/UK
14:50 - 15:00
79 - A non-UK Perspective
D. Adams; New York/UK
15:00 - 15:15
Discussion

State of the Art Mitral Valve Surgery

Mon, March 10, 2014
Sidlaw: 15:40 - 17:00

Examining the Merits of Minimally Invasive Surgery
Moderation: B. Bridgewater, S. Kolvekar, F. Wells, C. Munsch, M. Amrani;
1 Manchester/UK, 2 London/UK, 3 Cambridge/UK, 4 Leeds/UK
15:40 - 15:55
81 - Why should I set up a Minimally Invasive Programme?
H. Vanermen; St Luc/BE
15:55 - 16:10
82 - How should I set up a Minimally Invasive Programme?
P. Modi; Liverpool/UK
16:10 - 16:25
83 - Why should I not set up a Minimally Invasive Programme?
S. Livesey; Southampton/UK
16:25 - 16:40
84 - What does not get published?
B. Bridgewater; Manchester/UK
16:40 - 17:00
Discussion
Multispecialty Thoracic Surgery
Mon, March 10, 2014
Pentland: 09:00 - 10:40
Moderation: D.G. West¹, K. McManus²;
¹ Bristol/UK, ² Belfast/UK
09:00 - 09:10
86 - General Points on Multispecialty Surgery:
Organisation, Location, Coordination
D. West; Bristol/UK

Combined Oesophageal and Airway Surgery
09:10 - 09:30
88 - Managing Oesophago-airway Fistulae
R. Page; Liverpool/UK
09:30 - 09:35
Discussion

Chest Wall Surgery:
Planning and Performing Major Resections
09:35 - 09:55
91 - Thoracic Surgical Aspects: Decision Making, Excision, Reconstruction
M. Kalkat, Birmingham/UK
09:55 - 10:15
92 - Soft Tissue Cover for Major Chest Wall Resection
H. Khalil, Birmingham/UK
10:15 - 10:40
93 - Chest Wall Virtual MDT: Cases and Panel Discussion

Multispecialty Thoracic Surgery
Mon, March 10, 2014
Pentland: 10:40 - 12:00
Moderation: D.G. West¹, K. McManus²;
¹ Bristol/UK, ² Belfast/UK

Combined Spinal and Thoracic Surgery
10:40 - 11:00
95 - Thoracic Surgical Support for Spinal Surgery
P. Minhas; London/UK
11:00 - 11:20
96 - Extended Resections Requiring Spinal Resection
P. Dartevelle; Paris/FR
11:20 - 11:30
Discussion
11:30 - 12:00
98 - The Virtual MDT: Multispecialty Cases in General Thoracic surgery
Simulation in Thoracic Surgery
Mon, March 10, 2014
Kilsyth: 09:00 - 10:15
Moderation: S. Rathinam, M. Molyneux, G. Casali, K. Kamalanathan, L. Hood, M. Kalkat
1 Leicester/UK, 2 Bristol/UK, 3 Birmingham/UK
09:00 - 09:15
99 - Simulation in Cardiothoracic Surgical Training
S. Rathinam; Leicester/UK
09:15 - 10:15
100 - What Surgeons need to know about One Lung Ventilation
M. Molyneux; Bristol/UK

Simulation in Thoracic Surgery
Mon, March 10, 2014
Kilsyth: 10:40 - 12:00
Moderation: S. Rathinam, G. Casali, M. Molyneux, M. Kalkat
K. Kamalanathan, L. Hood; 1 Leicester/UK, 2 Bristol/UK, 3 Birmingham/UK
10:40 - 11:40
101 - Rigid Bronchoscopy
S. Rathinam; Leicester/UK
11:40 - 12:00
102 - Major Bleeding: Emergency Protocols in Mediastinoscopy and Lobectomy
G. Casali; Bristol/UK
Advances in Management of Sepsis in Thoracic Surgery

Mon, March 10, 2014
Pentland: 14:00 - 15:15
Moderation: I. Hunt, S. Jordan; London/UK

14:00 - 14:05
115 - Introduction
I. Hunt; London/UK

14:05 - 14:25
116 - Non-surgical Management of Pleural Sepsis: Medical Therapy, Intrapleural Thrombolytics, Medical Thoracoscopy
N. Maskell; Bristol/UK

14:25 - 14:30
Discussion

14:30 - 14:50
118 - Surgery for Pleural and Pulmonary Sepsis: Patient Selection and Technical Aspects in VATS and Open Surgery
G. Massard; Strasbourg/FR

14:50 - 14:55
Discussion

14:55 - 15:15
120 - Interactive Case Presentations and Panel Discussion

Advances in Management of Sepsis in Thoracic Surgery

Mon, March 10, 2014
Pentland: 15:45 - 17:00
Moderation: I. Hunt, S. Jordan; London/UK

15:45 - 15:55
121 - Surgical Treatment of Complex Thoracic Infections
G. Massard; Strasbourg/FR

15:55 - 16:00
Discussion

16:00 - 16:20
123 - Interactive Case Presentations and Panel Discussion

16:20 - 16:40
124 - The Modern Management of Pulmonary Aspergillosis and Mycobacterial Infection
D. Denning; Manchester/UK

16:40 - 16:50
Discussion

16:50 - 17:00
126 - Round Up and Session End
I. Hunt, S. Jordan; London/UK
Innovations in Thoracic Surgery

Mon, March 10, 2014
Kilsyth: 14:00 - 17:00
Moderation: K. Papagiannopoulos¹, K. McManus²,
¹ Leeds/UK, ² Belfast/UK

14:00 - 14:20
103 - Extended use of Endobronchial Devices for Complex Problems in Thoracic Surgery
F. Herth; Heidelberg/DE

14:20 - 14:25
Discussion

14:25 - 14:45
105 - Current Status of Digital Devices in Thoracic Surgery: Do they Modernise Surgical Practice?
A. Brunelli; Leeds/UK

14:45 - 14:50
Discussion

14:50 - 15:10
107 - Current Updates in Tracheal Transplantation
D. Van Raemdonck, J. Vranckx, P. Delaere;
Leuven/BE

15:10 - 15:15
Discussion

15:15 - 15:35
109 - Tracheal Stem Cell Developments and Clinical Application
P. De Coppi; London/UK

15:35 - 15:40
Discussion

15:40 - 16:00
111 - Technological Advances in Managing Thoracic Pathology with ECMO
P. Falcoz; Strasbourg/FR

16:00 - 16:05
Discussion

16:05 - 16:25
113 - Advances in Imaging for Management of Solitary pulmonary Nodule
H. Isringhaus, Voelkingen/DE

16:25 - 16:30
Discussion
Orpheus Perfusion Workshop
Mon, March 10, 2014
Ochil 1&2: 09:00 - 12:00
Moderation: S. Robins¹, S. Phillips², M. Lewis³, T.J. Jones⁴;
¹ Wolverhampton/UK, ² London/UK, ³ Brighton/UK, ⁴ Birmingham/UK

Orpheus Perfusion Workshop
Mon, March 10, 2014
Ochil 1&2: 14:00 - 17:00
Moderation: S. Robins¹, S. Phillips², M. Lewis³, T.J. Jones⁴;
¹ Wolverhampton/UK, ² London/UK, ³ Brighton/UK, ⁴ Birmingham/UK
**Advances in Management of Emphysema**

**Mon, March 10, 2014**  
Pentland: 12:15 - 13:45  
Moderation: S. Rathinam¹, M. Shackcloth²;  
¹ Leicester/UK, ² Liverpool/UK  

12:15 - 12:35  
127 - Work up and Case Selection in an MDT Setting  
M. Morgan; Leicester/UK  

12:35 - 12:55  
128 - Endobronchial Volume Reduction  
F. Herth; Heidelberg/DE  

12:55 - 13:15  
129 - Surgical LVRS and Transplantation  
D. Van Raemdonck; Leuven/BE  

13:15 - 13:45  
130 - Cases for the Panel  

**TAVI**

**Mon, March 10, 2014**  
Moorfoot: 12:15 - 13:45  
Moderation: N. Moat; London/UK  

12:15 - 12:30  
131 - TAVI and Surgical AVR in the UK: An update from the UK CSR and UK TAVI Registry  
M. Bhabra;  
Wolverhampton/UK  

13:15 - 13:30  
135 - TAVI: Lessons from the USA  
D. Adams; New York/US  

12:30 - 12:45  
132 - UK TAVI Trial and other TAVI Trials  
W. Toff; Leicester/UK  

12:45 - 13:00  
133 - Second Generation Devices for Transapical and/or Direct Aortic TAVI (Jena, Symetis, and Engager)  
O. Wendler; London/UK  

13:00 - 13:15  
134 - Valve-in-Valve TAVI for Degenerative Aortic Bioprosthesis: Technical Tips and update from the World Wide Registry  
N Moat; London
**Minimal Access Mitral Valve Surgery**

**Mon, March 10, 2014**

Sidlaw: 12:15 - 13:45

Moderation: P. Modi¹, I. Ahmed²;  
¹ Liverpool/UK, ² Brighton/UK

12:15 - 12:30  
**136 - Minimally Invasive Mitral Valve Repair of Bileaflet Prolapse: How I do it**  
H. Vanermen; St Luc/BEl 

12:30 - 12:45  
**137 - Minimally Invasive Mitral Valve Repair of Posterior Prolapse: How I do it**  
J. Obadia; Lyon/Fr 

12:45 - 13:00  
**138 - Totally Thoracoscopic Minimally Invasive Mitral Valve Repair of Anterior Leaflet Prolapse: How I do it**  
A. Yilmaz; Amsterdam/Nl 

13:00 - 13:15  
**139 - Special Circumstances and how to deal with them: Transmitral HOCM Repair, Caval Occlusion, Pacing Wire Replacement in Redos**  
H. Vanermen; St Luc/BEl 

13:15 - 13:30  
**140 - The Endoballoon Unwrapped**  
I. Ahmed; Brighton/UK 

13:30 - 13:30  
**141 - The Loop Technique**  
P. Modi; Liverpool/UK

**Complex Wound Healing: Prophylaxis and Treatment**

**Mon, March 10, 2014**

Carrick: 12:15 - 13:45

Moderation: D. Quinn¹, A. Tang², F. De Robertis³;  
¹ Birmingham/UK, ² Blackpool/UK, ³ London/UK

12:15 - 12:25  
**142 - Sternal Wound Mechanical and Infective Dehiscence**  
D. Quinn; Birmingham/UK 

12:25 - 12:45  
**143 - Alternative Approaches to Sternal Wound Fixation - I**  
F. De Robertis; London/UK 

12:45 - 13:00  
**144 - Alternative Approaches to Sternal Wound Fixation - II**  
D. Quinn; Birmingham/UK 

13:00 - 13:25  
**145 - Plastic Surgical reconstruction of Sternal Dehiscence**  
L. Cogswell; Oxford/UK 

13:25 - 13:45  
Discussion
**Advances in Management of Chest Wall Trauma**

**Mon, March 10, 2014**  
Kilsyth: 12:15 - 13:45  
Moderation: A. Coonar¹, E. Black²;  
¹ Cambridge/UK, ² Oxford/UK

12:15 - 12:45  
**147 - Rib Fixation: Old Wine in New Bottles?**  
M. Bemelman; Utrecht/NL

12:45 - 13:15  
**148 - At the Junction: Trauma Management of the Manubrio-Calvicular Joint, Clavicle and Scapula**  
L. Van Rensburg; Cambridge/UK

13:15 - 13:45  
Discussion

**Minimal Access Aortic Valve Surgery**

**Mon, March 10, 2014**  
Tinto: 12:15 - 13:45  
Moderation: A. Chukwuemeka¹, E. Akowuah²;  
¹ London/UK, ² Middlesbrough/UK

12:15 - 12:35  
**150 - The Role of Sutureless Prostheses in Minimally Invasive Aortic Valve Replacement Surgery**  
O. Dapunt; Oldenburg/DE

12:35 - 12:45  
Discussion

12:45 - 13:05  
**152 - J Shaped Median Sternotomy to 4th Intercostal Space: Insights from MINI STERN**  
S. Nair; Newcastle/UK

13:05 - 13:15  
Discussion

13:15 - 13:35  
**154 - Manubrium Limited Minimally Invasive AVR: The MAVRIC Trial**  
A. Goodwin; Middlesbrough/UK

13:35 - 13:45  
Discussion
**Lunch Box Sessions**

**Haemostatic Adjuncts: Understanding the Options**

*Mon, March 10, 2014*
Fintry: 12:15 - 13:45
Moderation: N. Howell, A. Ranasinghe; Birmingham/UK

12:15 - 12:30
156 - The Importance of Stopping the Bleeding: The Role of Blood Conservation
G. Murphy; Leicester/UK

12:30 - 12:45
157 - Can we Identify the Patient who will Bleed and can we Prevent it?
A. Jeppsson; Gothenburg/SE

12:45 - 13:05
158 - Aprotinin: We know it works but what do the Regulators say and how did we end up here?
D. Royston; London/UK

13:05 - 13:25
159 - Haematological Investigation of Bleeding Patients and Treatment Options
M. Besser; Cambridge/UK

13:25 - 13:30
Discussion
Cardiac Surgery
Evolution of Cardiac Surgical Care

Tue, March 11, 2014
Pentland: 08:00 - 10:00

Changing Cardiac Surgical Practices including Atrial Fibrillation Key Note Address
Moderation: A. Shipolini, R. Uppal, H. El-Shafei, A. Szafarnek
1 London/UK, 2 Aberdeen/UK, 3 Nottingham/UK

08:00 - 08:10
161 - Size Matters: Obesity Paradox or Parallax for Cardiac Surgery Patients? Analysis of 3,977 Patients and Review of the Literature
M. Zeinah, H. El-Nady, S. Shah, D. Ngaage; Basildon/UK

08:10 - 08:20
162 - Concomitant Cardiac Surgery and Liver Transplantation: An Alternative Approach in Patients with End-stage Liver Failure?
H. Khan, S. Chaubey, G. Auzinger, J. Wendon, J. Desai, N. Heaton, O. Wendler; London/UK

08:20 - 08:30
163 - Adult Cardiac Surgery in the Elderly (Octogenarians and above) - Are we getting better?
F. Mourad, V. Srivastava, M. Khan, A. Duncan; Blackpool/UK

08:30 - 08:40
164 - A Prospective Randomised Controlled Trial of the Impact of Pre-operative High Dose Statin use
Y.R. Chee, J. McCarthy, R.W.G. Watson, D. Healy; Dublin/IE

08:40 - 08:50
165 - Miniaturised Cardiopulmonary Bypass is Associated with a Reduction in Leukocyte Activation and Less Myocardial and Renal Injury Compared to Conventional Cardiopulmonary Bypass
B. Nguyen, F. Fiorentino, B. Reeves, K. Baig, G. Angelini
1 Bristol/UK, 2 London/UK, 3 Sheffield/UK

08:50 - 09:00
166 - Remote Ischaemic Preconditioning remains a Promising Technique for Myocardial Protection: A Meta-analysis and Systematic Review
R. Payne, J. Aldwinckle, J. Storrow
1 Leamington Spa/UK, 2 Birmingham/UK, 3 Warwick/UK

09:00 - 09:10
167 - Multi-centre Double-blinded Randomised Controlled Trial of Perhexiline as a Metabolic Modulator to Augment Myocardial Protection in Patients with Left Ventricular Hypertrophy undergoing Cardiac Surgery
E. Senanayake, N. Howell, A. Ranasinghe, N. Drury, N. Freemantle, M. Frenneaux, T. Oleofose, D. Green, I. Wilson
1 Birmingham/UK, 2 London/UK, 3 Aberdeen/UK, 4 Coventry/UK, 5 Brighton/UK
09:10 - 09:20
168 - A Bibliometric Analysis of the 100 Most Influential Papers in Cardiac Surgery
K. O’ Sullivan, J. Hurley; Dublin/IE

09:20 - 09:30
169 - Concomitant Cox-Maze IV Procedure and Atrial Reduction for Persistent Atrial Fibrillation - A Multi-Disciplinary Approach
N. Nwaejike¹, R. Richards², S. Chalil², S. Gall², A. Tang²;
¹ Liverpool/UK, ² Blackpool/UK

09:30 - 09:55
170 - A Life of Innovation in Cardiac Surgery
J. Cox; St Louis/US

09:55 - 10:00
Discussion

Aortic Valve Surgery - A Changing Field

Tue, March 11, 2014
Tinto: 08:00 - 10:00

Edwards Sponsored Session
Moderation: C. Young¹, R. Deshpande¹, R. Casula¹, John Carey²;
¹ London/UK, ² Manchester/UK

08:00 - 08:10
172 - Metabolomic Analysis of the Myocardium in Left Ventricular Hypertrophy Secondary to Aortic Stenosis
E. Senanayake, R. Weber, N. Howell, M. Viant, D. Pagano;
Birmingham/UK

08:10 - 08:20
173 - The Prognostic Significance of Raised Troponin Levels in Patients Undergoing Surgery for Aortic Valve Stenosis
D. Bleetman, S. Law, S. Shah, D. Ngaage;
Basildon/UK

08:20 - 08:30
174 - Coronary Ostial Compromise in Aortic Valve Replacement: A Rare but Avoidable Fatal Complication
S. Farid, A. Page, N. Howell, Y. Abu-Omar, M. Goddard, D. Jenkins, S. Nashef; Papworth/UK

08:30 - 08:40
175 - Long-term Pacemaker Requirement after Aortic Valve Replacement
H. Kattach¹, S. Daley¹, U. Benedetto¹, S. Raja², M. Amrani³;
¹ London/UK, ² Middlesex/UK

08:40 - 08:50
176 - High Volume Minimally Invasive Aortic Valve Replacement Reduces Morbidity Compared to Conventional Aortic Valve Replacement - A Matched Study
G. Soppa, A. Viviano, J. Smelt, M. Yates, J. Van Besouw, M. Jahangiri; London/UK
08:50 - 09:00
177 - Minimally Invasive versus Full Sternotomy Aortic Valve Replacement: Short and Long Term Propensity Score Based Comparison
U. Benedetto, S. Raja, F. De Robertis, M. Amrani; London/UK

09:00 - 09:10
178 - Manubrium Limited Sternotomy for Aortic Valve Replacement Results in Decreased Blood Loss and Equivalent Outcomes to Conventional Sternotomy
C. Burdett, I. Bibiloni Lage, A. Goodwin, R. White, K. Khan, A. Owens, S. Kendall, J. Ferguson, J. Dunning, E. Akowuah; Middlesbrough/UK

09:10 - 09:20
179 - Cost Saving after Sutureless Replacement in Aortic Valve Stenosis: Results from a Propensity-matched Score Analysis
S. Pfeiffer, G. Santarpino, F. Pollari, J. Sirch, F. Vogt, T. Fischlein; Nuremberg/DE

09:20 - 09:30
180 - Early Experience using Enable Sutureless Valve
R. White, I. Bibiloni Lage, C. Burdett, A. Goodwin, E. Akowuah; Middlesbrough/UK

09:30 - 09:45
181 - Sutureless Aortic Valve Implantation
C. Young; London/UK

09:45 - 10:00
182 - 3D Images in Sutureless Valve Implantation
Edwards Lifesciences

Plenary Cardiothoracic Session including the Presidential Address

Tue, March 11, 2014
Pentland: 10:30 - 12:30

Session Sponsored by Ethicon
Moderation: J. Roxburgh¹, C. Bannister², S. Barnard³, T. Graham⁴;
¹ London/UK, ² Southampton/UK, ³ Newcastle/UK, ⁴ Birmingham/UK

10:30 - 10:40
183 - One Thousand Pulmonary Endarterectomy Operations - The UK Experience
M. Berman, A. Ravaglioli, J. Dunning, S. Tsui, C. Ng, K. Sheares,
J. Cannon, M. Toshner, M. Rootes, A. Ponnaberanam,
D. Taboada, J. Pepke-Zaba, D. Jenkins;
Papworth/UK

10:40 - 10:50
184 - Cardiac Surgery Outcomes for Patients with Impaired Kidney Function: A Single-centre Randomised Trial of Intraoperative Zero-balanced Ultrafiltration
B. Matata, N. Mediratta, N. Scawn, M. Morgan, S. Shirley, I. Kemp,
R. Stables, S. Lane, S. Richards, A. Haycox;
Liverpool/UK
10:50 - 11:00
185 - Hospital Procedure Volume is Strongly Associated with Improved Survival after Lung Cancer Surgery
R. Page\textsuperscript{1}, M. Luchtenborg\textsuperscript{1}, S. Riaz\textsuperscript{2}, V. Coupland\textsuperscript{2}, H. Moller\textsuperscript{2}, E. Lim\textsuperscript{2}, M. Lind\textsuperscript{3}, M. Peake\textsuperscript{4}, E. Jakobsen\textsuperscript{5}, M. Krasnik\textsuperscript{6};\textsuperscript{1} Liverpool/UK, \textsuperscript{2} London/UK, \textsuperscript{3} Hull/UK, \textsuperscript{4} Leicester/UK, \textsuperscript{5} Odense/DK, \textsuperscript{6} Copenhagen/DK

11:00 - 11:10
186 - Formalisation of the Cardiothoracic Surgical Care Practitioner Role in the UK: A Multicentre Study
B. Krishnamoorthy\textsuperscript{1}, J. Djordjevic\textsuperscript{2}, A. Marshall\textsuperscript{3}, T. Rankin\textsuperscript{4}, C. Birkett\textsuperscript{5}, S. Bryant\textsuperscript{6}, W. Critchley\textsuperscript{1}, T. Bartley\textsuperscript{1}, M. Lewis\textsuperscript{7}, T. Graham\textsuperscript{8}, N. Yonan\textsuperscript{1}, R. Shah\textsuperscript{1}; \textsuperscript{1} Manchester/UK, \textsuperscript{2} Oxford/UK, \textsuperscript{3} Liverpool/UK, \textsuperscript{4} Plymouth/UK, \textsuperscript{5} Birmingham/UK, \textsuperscript{6} Cambridge/UK, \textsuperscript{7} Brighton/UK

11:10 - 11:15
Introduction to the Ethicon Scholarships
M. Lewis\textsuperscript{1}, R. Shah\textsuperscript{2}; \textsuperscript{1} Brighton/UK, \textsuperscript{2} Manchester/UK

11:15 - 11:22
187 - Ethicon Scholarship: Mitral Valve Surgery
T. Barker; Coventry/UK

11:22 - 11:29
188 - Ethicon Scholarship: Congenital Heart Surgery
M. Murphy; London/UK

11:29 - 11:34
189 - Introduction to the Marian and Christina Ionescu Scholarship
J. Roxburgh; London/UK

11:34 - 11:41
190 - Ionescu Scholarship: Aortic Surgery
D. Harrington; Liverpool/UK

11:41 - 12:01
An Update on Clinical Reference Groups
D. Keenan\textsuperscript{1}, R. Page\textsuperscript{2}; \textsuperscript{1} Manchester/UK, \textsuperscript{2} Liverpool/UK

191 - Thoracic Surgical CRGs
192 - Cardiac Surgical CRGs

Presidential Address
12:01 - 12:08
Introduction
T. Graham, Birmingham/UK

12:08 - 12:28
193 - Presidential Address
J. Roxburgh, London/UK
Quality and Efficiency Markers in Cardiac Surgery

Tue, March 11, 2014
Pentland: 13:15 - 15:15
Moderation: A. Marchbank, A. Ritchie, E. Brackenbury, J. Parmar
1 Plymouth/UK, 2 Basildon/UK, 3 Edinburgh/UK, 4 Coventry/UK

13:15 - 13:25
194 - Removal of Phosphatidylserine Positive Microparticles from Stored Red Cell Units by Washing Ameliorates Inflammation in a Novel In Vitro Model of Human TRALI
M. Wozniak, N. Patel, A. Abidoye, P. Nielsen, M. Wiltshire, R. Cardigan, V. Verheyden, G. Murphy
1 Leicester/UK, 2 Bristol/UK, 3 Brentwood/UK

13:25 - 13:35
195 - Developing Risk Scores to Facilitate Pre-operative Prediction of Transfusion and Massive Blood Transfusion Associated with Adult Cardiac Surgery
R. Goudie, J. Sterne, V. Verheyden, M. Bhabra, M. Ranucci, G. Murphy
1 Bristol/UK, 2 Leicester/UK, 3 Wolverhampton/UK, 4 Milan/IT

13:35 - 13:45
196 - Indications for Red Cell Transfusion in Cardiac Surgery: A Systematic Review and Meta-Analysis of Randomized Controlled Trials and Observational Studies
N. Patel, V. Avlonitis, H. Jones, J. Sterne, G. Murphy
1 Bristol/UK, 2 Leicester/UK

13:45 - 13:55
197 - Improving Transfusion Related Adverse Outcomes in Cardiac Surgery: The Role of RBC Rejuvenation
1 Leicester/UK, 2 Bristol/UK, 3 Brentwood/UK, 4 Western-super-mare/UK

13:55 - 14:15
198 - TITRE2 - The Results
G. Murphy, B. Reeves, C. Rogers, K. Pike
1 Leicester/UK, 2 Bristol/UK

14:15 - 14:25
199 - Introduction of a Tissue Protective Bundle to Reduce Sternal Wound Complications
C. Efthymiou, R. George, D. O'Regan; Leeds/UK

14:25 - 14:35
V. Joshi, D. Richens
1 Leicester/UK, 2 Nottingham/UK
14:35 - 14:45
201 - Determination of Predictors of Surgical Site Infection at Coronary Artery Bypass Grafting
M. Rochon, R. Yadav, R. Trimlett, S. Raja, T. Bahrami, J. Jarman; London/UK

14:45 - 14:55
202 - A Three Year Review of Sternal Wound Infections following Cardiothoracic Procedures requiring Sternotomy at a Large Tertiary Referral Centre
T. Locke, T. de Silva, N. Briffa, M. Stott, H. Parsons; Sheffield/UK

14:55 - 15:15
203 - What is the Role of the NCBC in Increasing Quality and Efficiency?
R. Miles, Director of the National Cardiac Benchmarking Collaborative, Oxford/UK

Cardiothoracic Surgical Training
Tue, March 11, 2014
Tinto: 13:15 - 14:45
Moderation: M. Jahangiri, J. Hyde, M. Underwood, S. Livesey, S. Barnard;
1 London/UK, 2 Brighton/UK, 3 Hong Kong/HK, 4 Southampton/UK, 5 Newcastle/UK

13:15 - 13:20
204 - Introduction
M. Jahangiri; London/UK

13:20 - 13:30
205 - A UK-wide Survey of Surgical Training: The Trainees Perspective
J. Smelt, G. Soppa, M. Jahangiri; London/UK

How to Assess Surgical Competency
13:30 - 13:37
207 - WBA and Wet Lab Assessment - Pro
D. McCormack; London/UK

13:37 - 13:44
208 - WBA and Wet Lab Assessment - Con
R. Uppal; London/UK

Service Provision: Does it Interfere with Training?
13:44 - 13:51
210 - Service Provision: Does it Interfere with Training? - Pro
S. Livesey; Southampton/UK

13:51 - 13:58
211 - Service Provision: Does it Interfere with Training? - Con
M. Jahangiri; London/UK
Should there be a Set Number of Operations Performed at the Point of CCT?

13:58 - 14:05
213 - Should there be a Set Number of Operations Performed at the Point of CCT? - Pro
S. Barnard; Newcastle/UK

14:05 - 14:12
214 - Should there be a Set Number of Operations Performed at the Point of CCT? - Con
R. Uppal; London/UK

ST 1 Entry?

14:12 - 14:19
216 - ST 1 Entry? - Pro
S. Livesey; Southampton/UK

14:19 - 14:26
217 - ST 1 Entry? - Con
J. Desai; London/UK

14:26 - 14:45
218 - Conclusion
M. Jahangiri; London/UK

Post Operative Care

Tue, March 11, 2014
Tinto: 15:15 - 17:15
Sponsored by Qualitech Healthcare Ltd
Moderation: I. Birdi, A. Cale, N. Briffa, F. Bhatti;
1 Basildon/UK, 2 Hull/UK, 3 Sheffield/UK, 4 Swansea/UK

15:15 - 15:25
235 - Outcomes after Extracorporeal Life Support (ECLS) for Post-cardiotomy Cardiogenic Shock in Adults
K. Ayoubi, S. O'Brien, E. Carton, L. Nolke;
Dublin/IE

15:25 - 15:35
228 - The Role of Epicardial Adipose Tissue in Postoperative Atrial Fibrillation
A. Viviano, X. Yin, M. Fava, M. Mayr, M. Jahangiri;
London/UK

15:35 - 15:45
229 - An Enhanced Recovery Programme Tailored for Cardiac Surgery (PORTICO) Reduces Length of Stay in High Risk Patients
U. Abah, E. Simpson, R. Mathew, C. Sudarshan, N. Jones, P. Catarino;
Cambridge/UK

15:45 - 15:55
230 - Cognitive Impairment Predicts Delirium in Patients Undergoing Cardiac Surgery
Z. Qureshi, P. Alston;
Edinburgh/UK
15:55 - 16:05
231 - Predictive Models for Post Cardiac Surgery Acute Kidney Injury
K. Birnie, V. Verheyden, M. Bhabra, D. Pagano, K. Tilling, J. Sterne, G. Murphy;
1 Bristol/UK, 2 Leicester/UK, 3 Wolverhampton/UK, 4 Birmingham/UK

16:05 - 16:15
232 - Impact of Pre-operative Renal Dysfunction/Failure on Short and Long Term Survival after Cardiac Surgery: 13 Years’ Experience of a Single Centre
S. Qadri, A. Barua, M. Chaudhry, M. Jarvis, A. Cale, M. Cowen, M. Loubani; Hull/UK

16:15 - 16:25
233 - Validation of the Intensive Care National Audit and Research Centre Scoring System in Adult Cardiac Surgery
J. Biddulph, P. Ariyaratnam, M. Loubani, V. Hong, A. Ananthasayanam; Hull/UK

16:25 - 16:35
234 - Quality of Life Following Prolonged Critical Care Stay Post Cardiac Surgery
E. Handley, E. Mohamed Ahmed, A. Marchbank; Plymouth/UK

16:35 - 16:50
236 - Subglottic Drainage Tracheal Tubes and Cardiac Surgery Outcome
P. Young; King’s Lynn/UK

16:50 - 17:05
237 - Aspiration Pneumonia: Its Impact on Post Operative Recovery
H. Luckraz; Wolverhampton/UK

17:05 - 17:15
Discussion

Contemporary Mitral Valve Surgery

Tue, March 11, 2014
Pentland: 15:45 - 17:15

Heart Research UK Session
Moderation: R. Patel, P. Punjabi, F. Wells, J. Dark, J. Dark, S. Livesey;
1 Coventry/UK, 2 London/UK, 3 Cambridge/UK, 4 Newcastle/UK, 5 Southampton/UK

15:45 - 15:55
219 - Inter-centre Agreement between Internal and External Transthoracic Echocardiography in Patients Undergoing Heart Valve Surgery
L. Holland, M. Lewis; Brighton/UK
15:55 - 16:05
220 - Establishing a Minimally Invasive Mitral Valve Surgery Service: Does it Meet the Proposed Standards in United Kingdom?
A. Nasir, V. Srivastava, J. Zacharias;
Blackpool/UK

16:05 - 16:15
221 - High Rates of Mitral Valve Repair are Achievable with Minimally Invasive Surgery even at the Start of a New Programme
Liverpool/UK

16:15 - 16:25
222 - Port- Access Minimally Invasive Mitral Valve Surgery Can Be Safely Performed in Octogenarians
J.D. Robb, A. Goldstone, J. Fox, M. Acker, P. Atluri, W. Hargrove;
Philadelphia/US

16:25 - 16:35
223 - Mitral Valve Repair for Type IIIA Mitral Regurgitation with Leaflet Extension using Extracellular Matrix (CorMatrix®): Early results
N. Nikolaidis, G. Sarlis, Z. Rusina, C. Bannister, A. Modi, S. Livesey;
Southampton/UK

16:35 - 16:45
224 - The Concept of Anterior Leaflet Functional Prolapse of the “Barlow” Mitral Valve and a Simpler Approach for Repair: Mid-term Results
N. Nikolaidis, S. Rouze, C. Bannister, S. Livesey;
Southampton/UK

16:45 - 16:46
225 - Introduction of the Heart Research UK Lecture
F. Wells; Cambridge/UK

16:46 - 17:10
226 - Heart Research UK Lecture: The Spectrum of Mitral Valve Surgery
D. Adams; New York/US

17:10 - 17:15
Discussion

ABM

Tue, March 12, 2014
Pentland: 17:20 - 18:50

Moderation: J. Roxburgh¹, T. Graham², S. Kendall³, G. Cooper⁴;
¹ London/UK, ² Birmingham/UK, ³ Middlesbrough/UK, ⁴ Sheffield/UK
Cardiac Surgical Movies

Tue, March 11, 2014
Sidlaw: 17:20 - 19:00
Moderation: H. Vohra1, J. Cox2, D. Adams3, H. Safi4, Elefteriades5,
U. Dandekar1, M. Amrani1;
1 London/UK, 2 St Louis/US, 3 New York/US, 4 Texas/US, 5 New Haven/US,
5 Coventry/UK
17:20 - 17:29
239 - Aortic Valve Repair, Low fidelity Practice
A. Hossien;
Swansea/UK
17:29 - 17:38
240 - A Simple Set up for Complex Minimally Invasive Surgery
O. Swingland1, M. Moscarelli2, T. Athansiou1, M. Solinas2, R. Casula5;
1 London/UK, 2 Massa Carrara/IT
17:38 - 17:47
241 - Complex Mitral Valve Repair with Extracellular Matrix (CorMatrix®) for Bileaflet Extension
N. Nikolaidis, G. Sarlis, Z. Rusina, C. Bannister, A. Modi, S. Livesey;
Southampton/UK
17:47 - 17:56
242 - Novel Technique for Tricuspid Valve Annuloplasty in Patients Undergoing Concomitant Mitral Valve +/- AF Surgery
P. Punjabi, M. Elshiekh, M. Sharabiani, S. Sarvananthan, A. Momin;
London/UK
17:56 - 18:05
243 - Right Anterior Thoracotomy Approach for Transaortic Transcatheter Aortic Valve Implantation (TAo-TAVI)
R. Attia, M. Thomas, V. Bapat;
London/UK
18:05 - 18:14
244 - Transmitral Valve-in-Valve TAVI
Z. Tristram1, M. Jackson2, S. Clark2, E. Shepherd2, A. Zaman3;
1 Market Rasen/UK, 2 Newcastle Upon Tyne/UK
18:14 - 18:23
245 - Two Surgical Strategies for Correction of Anomalous Origin of the Right Coronary Artery in Young Adults
R. Pandey, S. Stoica, M. Hamilton, M. Caputo;
Bristol/UK
18:23 - 18:32
246 - Beating Heart Totally Endoscopic Coronary Artery Bypass
M. Acharya, L. Harling, T. Athanasiou, R. Casula;
London/UK
18:32 - 18:41
247 - Excision of a Right Ventricular Outflow Tract Sarcoma
R. Birla, M. Caputo;
Bristol/UK
18:41 - 18:50
248 - Surgical Excision of Left Ventricular Fibroma in Adult Presenting as Angina!
S. Shanmuganathan¹, T. Chua², V. Chandrasekaran³;
¹ London/UK, ² Guildford/UK

18:50 - 18:59
249 - The Remarkable Story of a Left Atrial Myxoma in an Echocardiographer
Liverpool/UK

TAVI: Where are we now?

Wed, March 12, 2014
Kilsyth: 09:00 - 11:00
Moderation: C. Lloyd¹, M. Bhabra¹, N. Moat¹, S. Prasad⁴;
¹ Plymouth, ² Wolverhampton/UK, ³ London/UK, ⁴ Edinburgh/UK

09:00 - 09:10
250 - Outcomes after Balloon Aortic Valvuloplasty in Patients turned down for Aortic Valve Replacement
T. Clark, M. Townsend, G. Asimakopoulos;
Bristol/UK

09:10 - 09:20
251 - A Meta-analysis of Short Term Outcomes Following TAVI Performed Under General versus Local Anaesthesia
K. O’ Sullivan, D. Bracken-Clarke, R. Segurado, G. Flood, D. Sugrue, J. Hurley; Dublin/IE

09:20 - 09:30
252 - Verification of Non-Inferiority of the Transapical Jenavalve TAVI compared to the Transapical Edwards Sapien TAVI
U. Schurr, F. Rüter, R. Jeger, J. Fassl, F. Eckstein, O. Reuthebuch;
Basel/CH

09:30 - 09:40
253 - Transcatheter Aortic Valve Implantation on Cardiopulmonary Bypass: Safe Hybrid Approach
M. Soni, S. Asopa, M. Dalrymple-Hay, C. Lloyd;
Plymouth/UK

10:30 - 10:40
258 - Comparative Effectiveness Evaluation of TAVI vs SAVR in an Intermediate Risk Propensity-matched Population: Results from the Italian OBSERVANT Study
P. D’Errigo¹, F. Seccareccia¹, S. Rosato¹, F. Onorati¹, F. Santini¹, C. Grossi¹, C. Tamburino¹, M. Barbanti¹, M. Ranucci¹, R.D. Covello¹, G. Santoro¹, G. Badoni¹;
¹ Rome/IT, ² Verona/IT, ³ Genoa/IT, ⁴ Cuneo/IT, ⁵ Catania/IT, ⁶ Milan/IT, ⁷ Florence/IT

09:40 - 10:00
254 - Where is TAVI Today? Latest Data from PARTNER Trials, ADVANCE, SOURCE and the CoreValve IDE Trial, GARY and other EU Registries; and UK Registry Data
O. Wendler, London/UK
10:00 - 10:10
**255 - Influence of Valve Design on Valve-in-Valve Transcatheter Aortic Valve Implantation (VIV-TAVI)**
R. Attia, A. Noorani, C. Young, M. Thomas, V. Bapat; 1 London/UK, 2 Papworth/UK

10:10 - 10:20
**256 - Incidence and Mechanisms of Cerebral Ischemia following Transcatheter Aortic Valve Implantation compared with Surgical Aortic Valve Replacement**

10:20 - 10:30
**257 - The Incidence of Paravalvular Regurgitation following TAVI and Impact of Valve Selection on its Occurrence**
K. O’ Sullivan, A. Gough, R. Segurado, D. Sugrue, J. Hurley; Dublin/IE

10:40 - 11:00
**259 - Where is TCV Therapy going?**
N. Moat; London/UK

---

**Coronary Artery Revascularisation Surgery**

**Wed, March 12, 2014**

**Pentland: 09:00 - 11:00**

Moderation: A. Levine, P. Kolh, M. Amrani, U. Dandekar, R Williams; 1 Stoke-on-Trent/UK, 2 Liege/BE, 3 London/UK, 4 Coventry/UK, 5 Liverpool/UK

**09:00 - 09:10**
**260 - Impact of ESC/EACTS Guidelines on Myocardial Revascularization on Heart Team Discussion of Patients with Severe Coronary Artery Disease in the United Kingdom - A Multi-Centre Study**
M. Yates, D. Balmforth, G. Soppa, R. Uppal, J. Desai, S. Firoozi, M. Jahangiri; London/UK

**09:10 - 09:20**
**261 - Does the Syntax Score Explain the Gender Difference in Mortality Following Coronary Artery Bypass Surgery?**
K. Kotidis, D. Marinceu, M. Loubani; Hull/UK

**09:20 - 09:30**
**262 - The Clinical Consequences of Primary Pericardial Closure after Coronary Artery Bypass Grafting**
A. Sayed, M. Zeinah, D. Ngaage; Basildon/UK
09:30 - 09:40
263 - Use of Bilateral Internal Mammary Arteries Results in Better Late Survival without affecting Operative Outcomes: A Propensity Score Matching Comparison with Conventional Technique
U. Benedetto, S. Raja, M. Husain, M. Konstantinidou, F. De Robertis, M. Amrani;
London/UK

09:40 - 09:50
264 - Radial Artery Offers Superior Survival to Septuagenarians compared to Long Saphenous Vein
S. Papaspyros, G. Kaimasidis, V. Giordano, M. Patronis, S. Prasad;
Edinburgh/UK

09:50 - 10:00
265 - Endothelial Integrity of Saphenous Vein Graft harvested by Endoscopic and Open Conventional Methods
Manchester/UK

10:00 - 10:10
266 - Endoscopic Vein Harvesting does not Jeopardise Late Outcomes after Coronary Artery Bypass Grafting: A High Volume Single Centre Propensity Score Matching Analysis
M. Al Sahaf, S. Raja, U. Benedetto, M. Rochon, C. Sproson, T. Bahrami;
London/UK

10:10 - 10:30
267 - Coronary Artery Conduit: Where does the Balance Lie?
S. Prasad;
Edinburgh/UK

10:30 - 10:40
268 - Intra-aortic Balloon Pump for Off-pump CABG Prevents Conversion to Cardiopulmonary Bypass
K. Saha¹, R. Kaushal², A. Kumar¹, M. Deval¹, K. Saha¹, S. Kaul³;
¹ Mumbai/IN, ² Bhopal/IN, ³ Navi Mumbai/IN

10:40 - 11:00
269 - OPCAB: Where does the Balance Lie?
P. Kolh;
Liege/BE

Science and Surgery of the Aortic Root

Wed, March 12, 2014
Tinto: 09:00 - 11:00

Pierson Surgical Ltd Sponsored Session
Moderation: G. Tsang¹, M. Redmond², A. Oo³, V. Avlonitis⁴, L. Hadjinikolaou⁵;
¹ Southampton/UK, ² Dublin/IE, ³ Liverpool/UK,
⁴ London/UK, ⁵ Leicester/UK
09:00 - 09:15
270 - Imaging of the Aortic Root
M. Schepens; Brugge/BE

09:15 - 09:25
271 - A Combined Transcriptomics and Proteomics Analysis of Aortas in Bicuspid Aortic Valves

09:25 - 09:35
272 - Characterisation of the Mechanisms Involved in Thoracic Aortic Aneurysm Formation in Bicuspid Aortic Valve Patients versus Tricuspid Aortic Valve: Clinical Implications of a Pilot Study
C.R. Balistreri, C. Pisano, D. Merlo, C. Palmeri, O.F. Triolo, G. Ruvolo; Palermo/IT

09:35 - 09:45
273 - Bicuspid Aortic Valve Disease: Does Aortic Root Replacement Increase the Perioperative Risk compared to Isolated Aortic Valve Surgery?
G. Jakaj, H. Khan, S. Chaubey, J. Desai, R. Deshpande, M. Baghai, L. John, O. Wendler; London/UK

09:45 - 09:55
274 - Major Aortic Surgery during Pregnancy: Outcomes of a Single Centre Series
M. Yates, G. Soppa, J. Clarke, M. Jahangiri; London/UK

09:55 - 10:10
275 - Contemporary Surgical Management of Bicuspid Aortic Valve Syndrome
J. Elefteriades, New Haven/US

10:10 - 10:20
276 - Mini-sternotomy for Aortic Root Replacement - A Big Operation Through A Small Incision
C. Burdett, I. Bibiloni Lage, E. Akowuah, R. White, K. Khan, A. Goodwin; Middlesbrough/UK

10:20 - 10:35
277 - Aortic Root Surgery in the Elderly
H. Safi, Texas/US

10:35 - 10:50
278 - Bioconduits
S. Livesey; Southampton/UK

10:50 - 11:00
279 - 10 year Experience of Reoperative Aortic Root Replacement following Previous Porcine Bioroot Surgery
J.D. Robb, A. Jassar, F. McCarthy, I. Sultan, P. Vallabhajosyula, W. Szeto, J. Bavaria, N. Desai; Philadelphia/US
Safer Operative Surgery

**An introduction to NOTSS:**

Using the NOTSS (nontechnical skills for surgeons) system for understanding, observing and rating surgeons non-technical skills in the operating room.

This interactive session will introduce the NOTSS taxonomy of non-technical skills for surgeons and demonstrate how these skills can be observed, rated and used to provide constructive feedback.
Increasing Transparency in the NHS and Managing Surgical Divergence: Supporting the SCTS Membership

Wed, March 12, 2014
Pentland: 11:30 - 13:40
Moderation: B. Bridgewater1, G. Cooper2, S. Westaby1, S.Kendall1, T.Graham1;
1 Manchester/UK, 2 Sheffield/UK, 3 Oxford/UK, 4 Middlesbrough, 5 Birmingham

11:30 - 11:40
280 - Social Deprivation is an Independent Predictor of Short and Mid-term Outcomes following Cardiac Surgery; an Analysis of 243,835 Patients
S. Grant, J. Barnard, G. Hickey, B. Bridgewater;
Manchester/UK

11:40 - 11:50
281 - Contemporary UK Cardiac Surgery Outcome Data: The SCTS I-Data App
S. Grant1, G. Hickey1, R. Cosgriff2, M. Poullis1, S. Kendall1, J. Roxburgh1, B. Bridgewater1;
1 Manchester/UK, 2 London/UK, 3 Liverpool/UK, 4 Middlesbrough/UK

11:50 - 12:02
282 - Data, Apps and Professionalism
B. Bridgewater; Manchester/UK

12:02 - 12:14
283 - Cardiac Surgical Activity
J. Dunning;
Middlesbrough/UK

12:14 - 12:24
284 - Open to Questions

How should a Professional Society Support Members in an Era of Surgeon Specific Data?

12:24 - 12:29
286 - An Introduction
S. Kendall; Middlesbrough/UK

12:29 - 12:39
287 - Public Understanding of the Difficult Balance: A Patient’s Perspective
HQIP Patient Representative;

12:39 - 12:46
288 - Experience from a Medical Director in Scotland: Improving Cardiac Surgical Outcomes
M. Higgins; Glasgow/UK

12:46 - 12:53
289 - Experience from a Medical Director in England: Improving Cardiac Surgical Outcomes
T. Evans; London/UK
12:53 - 13:00
290 - A National Perspective from HQIP

13:00 - 13:10
291 - Phase of Care Mortality Review
S. Westaby; Oxford/UK

13:10 - 13:25
292 - The Future SCTS Approach
G. Cooper; London/UK

13:25 - 13:35
Discussion

13:35 - 13:38
294 - Summary and Future Direction
S. Kendall; Middlesbrough/UK

Bob Bonser Aortic Surgery Symposium

Wed, March 12, 2014
Tinto: 11:30 - 14:00

Including the AORTA Journal Great Debate
Moderation: J. Elefteriades¹, O. Wendler², M. Sabetai³, J. Gaer⁴;
¹ New Haven/US, ² London/UK

11:30 - 12:20
295 - The Great Debate: Motor Evoked Potentials in the Surgery of the Descending Aorta - Need to Monitor or Not?
H. Safi¹, M. Schepens², A. Oo³, M. Desmond³, R. Chalmers⁴
S. Thirumalai³, B. Callahan⁴;
¹ Texas/UK, ² Brugge/BE, ³ Liverpool/UK, ⁴ Edinburgh/UK,
³ Maryland/US, ⁴ Connecticut & New York/USA

AORTA

The SCTS is proud to host the second AORTA Great Debate.

The debate will be focus on Motor Evoked Potentials in surgery of the descending aorta. This novel technology allows surgeons to monitor intra-operatively with single- or repetitive-pulse stimulation during thoracoabdominal aortic aneurysm repair. Its reliability and use has been questioned by many experts in the field.

The Great Debate will include:
- A video presentation on the preparation and conduct of neuromonitoring
- A presentation on the interpretation of neuromonitoring
- A systematic review and meta-analysis on MEPs
12:20 - 12:30  
296 - Specialist Emergency Aortic Vascular Services Deliver Improved Patient Care in Acute Type A Aortic Dissection  
R. Attia, N. Papalexopoulou, C. Blauth, V. Bapat, M. Sabetai, R. Deshpande, O. Wendler, C. Young; London/UK

12:30 - 12:40  
303 - Risk Factors for Mortality after Open Thoracoabdominal Aneurysm Repair  
M. Iafrancesco, A. Ranasinghe, V. Dronavalli, M. Claridge, D. Adam, P. Riley, I. McCafferty, R. Bonser, J. Mascaro; Birmingham/UK

12:40 - 12:50  
304 - Development of a Risk Prediction Model for Aortic Surgery using the National Institute for Cardiovascular Outcomes Research (NICOR) Database  
M. Bashir', M. Shaw', G. Hickey', S. Grant', M. Fok', D. Harrington', M. Kuduvalli', M. Field', A. Oo';  
' Liverpool/UK, ' Manchester/UK

12:50 - 13:00  
305 - The Effect of Lymphocyte Subtypes on Vascular Smooth Muscle Cell Phenotype and Function during Aortic Aneurysm Remodelling  
R. Attia, C. Lee, N. Papalexopoulou, C. Young, B. Modarai, A. Smith; London/UK

13:00 - 13:10  
306 - Role of Polymorphisms of Angiotensin Converting Enzyme Gene in Thoracic Ascending Aneurysm  
C.R. Balistreri, C. Pisano, D. Merlo, C. Palmeri, O.F. Trioio, G. Ruvolo; Palermo/IT

13:10 - 13:20  
307 - Modulation of Vascular Smooth Muscle Cell Function and Inflammatory Responses Augments In-vivo Aneurysm Growth in ApoE-Angiotensin II Infusion Model of Aortic Aneurysms  
R. Attia, A. Phinikaridou, N. Papalexopoulou, A. Patel, C. Young, B. Modarai, R. Botnar, A. Smith; London/UK

13:20 - 13:30  
308 - Total Endovascular Repair of Thoraco-abdominal Aortic Aneurysm is Safe and Durable in the Medium-term  
M. Iafrancesco, A. Ranasinghe, M. Claridge, J. Mascaro, D. Adam; Birmingham/UK

13:30 - 13:40  
309 - Aortic Arch Disease in High-risk Patients: Total Arch Replacement or Hybrid Open-endovascular Repair?  
M. Iafrancesco, A. Ranasinghe, V. Dronavalli, M. Claridge, D. Adam, P. Riley, I. McCafferty, R. Bonser, J. Mascaro; Birmingham/UK
13:40 - 13:50
**310 - Long-term Outcomes of Follow-up of Type A Aortic Dissection (The FAD study) and the Effectiveness of Long-term Radiological Surveillance within a Single Institution**

L. Wang¹, L.P. Ong¹, M. Balakrishnan¹, S. Large¹;
¹ Cambridge/UK, ² Newcastle/UK

13:50 - 14:00
**311 - Does Age Affect Survival in Aortic Dissection? 15 years Single Centre Experience**

S. Bazerbashi, E. Mohamed Ahmed, A. Ward, M. Chirruli, J. Kuo, J. Unsworth-White;
Plymouth/UK

---

**Board of Representatives**

*Wed, March 12, 2014*

Pentland: 13:45 - 15:45

Moderation: S. Kendall¹, T. Graham², G. Cooper³;
¹ Middlesbrough/UK, ² Birmingham/UK, ³ Sheffield/UK

---

**Adult Cardiac Posters**

*Tue, March 11, 2014*

Cardiac Poster Area

Moderation: M. Chaudhry¹, N. Roberts², S. Ohri³,
R. Williams⁴;
¹ Hull/UK, ² Liverpool/UK, ³ London/UK, ⁴ Southampton/UK

**p35 - Management of Aberrant Right Subclavian Artery during Open Arch Replacement with the Frozen Elephant Trunk Technique**

M. Iafrancesco, A. Ranasinghe, V. Dronavalli, M. Claridge, D. Adam,
P. Riley, I. McCafferty, R. Bonser, J. Mascaro; Birmingham/UK

**p38 - Midterm Follow-Up of Haemodynamic Performance of the St. Jude Medical Trifecta Aortic Bioprosthesis**

A. Sepehripour, J. Chacko, D. McCormack, R. Uppal, K. Wong, K. Lall;
London/UK

**p42 - Is There a Proven Cost-Benefit of High Volume Centres in Open Thoracic Aortic Arch Surgery?**

M. Bashir, M. Shaw, M. Fok, G. Raman, F. Jafarzadeh, D. Harrington,
M. Kuduvalli, M. Field, A. Oo;
Liverpool/UK

**p47 - Quality Adjusted Life Year (QALY) following Coronary Artery Bypass Grafting**

S. Mohiyaddin¹, K. Kotidis², M. Acharya³, Y. Haqzad², M. Loubani²,
M. Chaudhry³;
² Sheffield/UK, ³ Hull/UK

**p40 - Effect of Hypothermia on Motor Evoked Potential Amplitude during Thoracic and Thoracoabdominal Aortic Aneurysm Surgery**

F. Jafarzadeh, A. Oo, M. Desmond, M. Field, M. Bashir, M. Kuduvalli,
D. Harrington; Liverpool/UK
p46 - Can Immediate Post-operative APACHE II Score Help Predict ITU Course and Consumption of Resources Following Thoracic Aortic Surgery?
M. Fok, M. Bashir, M. Shaw, C. Howard, L. Rimmer, S. Davies, D. Harrington, M. Kuduvalli, M. Field, A. Oo; Liverpool/UK

p51 - What are the Preoperative and Operative Factors that Influence Major Morbidity in Open Aortic Arch Repair? A Multivariate Analysis using the STS Major Morbidity Classification
M. Bashir, M. Shaw, T. Yan, M. Fok, F. Jafarzadeh, D. Harrington, M. Kuduvalli, M. Field, A. Oo; Liverpool/UK

p13 - Evaluation of the Effect of Treatment in Patients Undergoing Heart Valve Surgery using Patient Reported Outcome Measures
C. Holmes, N. Briffa; Sheffield/UK

p29 - What is the Learning Curve for Manubrium-limited Mini-AVR?
R. White, C. Burdett, I. Bibiloni, A. Goodwin, E. Akowuah; Middlesbrough/UK

p36 - Evaluation of Risk Factors for Perioperative Red Blood Cell Transfusion in Patients Undergoing Coronary Artery Bypass Graft Surgery
N. Bullock, J. Dunne, D. Mehta; Cardiff/UK

p24 - Improving Preoperative Management of Acute Aortic Dissection for Better Postoperative Results
C. Quarto¹, F. Falconieri¹, D. Avitabile², J. Pepper³; ¹ London/UK, ² Naples/IT

p28 - Streptococcus Bovis Bacteraemia: An Evaluation of the Long-term Effect on Cardiac Outcomes
G. Fitzmaurice¹, A. McKenna¹, J. Murphy², R. McMullan², M. O’Donnell³; ¹ Cork/IE, ² Belfast/UK, ³ London/UK

p34 - Coronary Artery Bypass Grafting in Patients with Poor Left Ventricular Function: A Single-centre’s Six Year Experience
L. Wharton, M. Rouhani, C. Sudarshan; Cambridge/UK

p39 - The Outcomes of Valve Surgery for Carcinoid Heart Disease
D. Aktuerk¹, N. Howell², E. Senanayake¹, K. Santo¹, T. Shah¹, R. Steeds², S. Rooney³; ¹ Leamington Spa/UK, ² Birmingham/UK

p43 - Massive Blood Transfusion Following Aortic Arch Aneurysm Repair: A Multivariate Analysis
M. Shaw, M. Bashir, T. Yan, M. Fok, F. Jafarzadeh, M. Desmond, D. Harrington, M. Kuduvalli, M. Field, A. Oo; Liverpool/UK
p17 - Prevention of Sternal Wound Complications in High-risk Patients using a Novel Cable-tie Type Sternal Band Closure
I. Bibiloni Lage, C. Burdett, E. Akowuah, J. Dunning, R. White, J. Ferguson, A. Owens, S. Kendall, A. Goodwin; Middlesbrough/UK

p23 - The Impact of Troponin I on Mortality in Patients undergoing CABG
M. Zakkar, A. Viviano, P. Collinson, O. Valencia, V. Chandrasekaran, R. Kanagasabay, M. Sarsam, E. Smith, M. Jahangiri; London/UK

p25 - Is ‘Prophylactic’ Aortic Valve Replacement for Moderate Aortic Stenosis at the time of Coronary Surgery Justified in Octogenarians?
A. Lopez-Marco, R. Tymko, U. Von Oppell; Cardiff/UK

p27 - Surgical Treatment of Primary Cardiac Tumours: 12-year Experience

p32 - Does Obesity Reduce Post-operative Bleeding after Coronary Revascularisation?
S. Datta, I. Manoly, A. Abu-Stait, R. Hasan; Manchester/UK

p44 - Impact of Endoscopic Vein Harvest on Saphenectomy Wound Complications

p49 - The Outcome of Patients with Ventricular Dysfunction Undergoing Aortic Valve Replacement

p50 - Outcome of over 1000 Cases of Endoscopic Vein Harvesting
S. Attaran, R. Yadav, R. Trimlett, G. Sobhun, P. Kimberley, E. Dunnett, J. Pepper, A. de Souza; London/UK

p1 - Is it time to Conduct Thoracic Aortic Surgery in UK Supercentres Only? A Thirteen Year Experience of Aortic Surgery in a Regional Centre
P. Ariyaratnam, M. Loubani, S. Griffin, M. Chaudhry, M. Jarvis, A. Vijayan, M. Cowen, A. Cale; Cottingham/UK

p4 - Post Operative Bleeding in Cardiac Surgery - Developing a Formula to Predict the Need for Re-explorations
B. Adams, G. Hallward, S. McCorkell, J. Roxburgh; London/UK
p9 - Pure Arterial Revascularisation using a composite RIMA Y-graft from Skeletonised LIMA: Is Targeted Complete Revascularisation Achievable?
M. Nawaz, D. Anderson, N. Alattar;
Glasgow/UK

p10 - Subjective Outcomes after Pure Internal Thoracic Artery CABG: Results of Cross-sectional Patient and Allied Healthcare Satisfaction Survey
Glasgow/UK

p16 - Management of Descending Thoracic and Thoracoabdominal Aortic Aneurysms in South Wales
S.R.R. Podila, I. Williams, A. Gordon, U. Von Oppell;
Cardiff/UK

p19 - Post Cardiotomy Open Chest Management (PCOCM) - Is it Justifiable?
N. Haughey, K. Booth, H. Parissis;
Belfast/UK

p20 - Current Demand for Surgery for Rheumatic Heart Disease in Northern Ireland
U. Imran Hamid, A. Graham;
Belfast/UK

p26 - Is Age over 80 years old in Severe Aortic Stenosis a Justification by itself for TAVI yet?
A. Lopez-Marco, R. Tymko, U. Von Oppell;
Cardiff/UK

p31 - Aortic Arch Surgery using Antegrade Cerebral Perfusion and Mild Systemic Hypothermia
V. Srivastava, F. Mourad, J. Gavin, M. Hartley, A. Duncan;
Blackpool/UK

p6 - Is Debranching and Hybrid Approach a Safe Procedure in High Risk Patients with Arch and Descending Aneurysm?
J. Smelt, M. Yates, P. Youssefi, J. Van Besouw, M. Thompson, M. Jahangiri;
London/UK

p30 - Demonstration of Human Myocardial Tissue Survival in a Novel Miniaturised Myocardial Analysis System (MMAS)
I. Riaz, S. Griffin, M. Chaudhry, M. Loubani, C. Dyer, J. Greenman;
Hull/UK

p14 - Polymorphisms of Endothelial Nitric Oxide Gene as Strong Risk Factors of Sporadic Ascending Aorta Aneurysm
C. Pisano, C.R. Balistreri, D. Merlo, O.F. Triolo, C. Palmeri, G. Ruvolo;
Palermo/IT
p33 - Intermittent Cross-clamp Fibrillation is Associated with Derangement in Myocardial Energy Rich Phosphates and Early Myocardial Injury
B. Nguyen¹, S. Suleiman², J. Anderson², P. Evans¹, F. Fiorentino², B. Reeves¹, G. Angelini¹;
¹ Bristol/UK, ² London/UK, ³ Sheffield/UK

p48 - Clinical Audit of Preoperative Sickle Cell Screening for Patients Undergoing Cardiac Surgery
A. Zaheer, J. Huang, N. Nikou, A. Kourliouros, R. Deshpande;
London/UK

p5 - Early Outcomes of Surgery for Carcinoid Heart Disease - Case Series in a Single Institution
L.P. Ong¹, U. Abah¹, R. Kutty¹, Y. Abu-Omar¹;
¹ Newcastle/UK, ² Papworth/UK

p12 - Clinical and Cost Benefits of Miniaturized Cardiopulmonary Bypass for Patients Undergoing Coronary Artery Bypass Grafting Surgery
S. Farid, S. Colah, D. Gifford, J. Irons, M. Dunne, M. Gilhooly, N. Jones, N. Moorjani;
Papworth/UK

p22 - Compliant to Warfarin Therapy after Mechanical Heart Valve Replacement
A. Gabal¹, A. Elassal², R. Shehata³;
¹ Onaizah/SA, ² Jeddah/SA

p8 - Towards Minimising Blood Transfusion after Coronary Artery Bypass Grafting: Understanding the Patterns, Predictors and Perils in Current Practice
J. Djordjevic, D. Ngaage;
Basildon/UK

p37 - Do Trainees Perform Off-pump Coronary Artery Bypass Surgery Safely?
T. Smith¹, A. Kaura², G. Asimakopoulos³;
¹ Bristol/UK, ² London/UK

p7 - 3D-Rapid Prototyping for Surgical Planning of Degenerative Mitral Valve Regurgitation from 3D Echocardiography
A. Hossien; Swansea/UK

p11 - Type A Dissection: Analysis of Survival, Patient Characteristics and Predictors of Mortality
S. Papaspyros, A. Kar, S. Prasad;
Edinburgh/UK

p15 - What Constitutes a ‘Case’: We are not Talking the Same Language!
C. Burdett¹, J. Dunning¹, CTRC³;
¹ Middlesbrough/UK, ² Cardiothoracic Trainees Research Collaborative/UK
p41 - Modes of Presentation and Extend of Chronic Type A Aortic Dissections
Birmingham/UK

p2 - Cerebrovascular Complications of OPCABG vs Conventional CABG
J. Williams; Liverpool/UK

A. Montecalvo, U. Benedetto, A. Albanese, R. Soliman, H. Kattach, S. Raja;
London/UK

p18 - STRATOS-Stabilised In-situ Bone Grafting - A Novel Technique for Sterile Sternotomy Dehiscence
J. Finch, S. Raja, F. DeRobertis, V. Anikin; Middlesex/UK

p21 - Microparticles in Stored Blood: Potential Implications on Blood Transfusion during Cardiac Surgery
K. Ang, N. Sullo, P. Nielsen, V. Verheyden, A. Abidoye, B. Gosai, M. Wozniak, G. Murphy;
Leicester/UK

p45 - A Randomised Study of Miniaturised Extracorporeal Circulation and Conventional Bypass Circuit with Particular Attention to Microemboli
J. Smelt', C. Hamilton', S. Jones', O. Valencia', M. Edsell';
S. Phillips', M. Jahangiri';
' London/UK, ' Liverpool/UK

p54 - Histological and Genetic Markers in Patients with Ascending Aneurysm and Bicuspid Aortic Valve
C. Pisano, C.R. Balistreri, D. Merlo, O.F. Triolo, C. Palmeri, G. Ruvolo;
Palermo/IT
Advanced
Heart & Lung
Failure Surgery

SCTS EDINBURGH
2014
Sponsored by Transmedics, Maquet, Xvivo, Vivoline, Novalung

1. Pentland: 17:20 - 18:50
Moderation: J. Roxburgh, T. Graham, S. Kendall, G. Cooper;
1 London/UK, 2 Birmingham/UK, 3 Middlesbrough/UK, 4 Sheffield/UK

**Advanced Lung Failure Surgery**

Wed, March 12, 2014
Moorfoot: 09:00 - 11:00

**312 - Individualised Risk of Morbidity and Mortality following Lung Volume Reduction Surgery (LVRS): The Glenfield Score**
P. Vaughan, N. Greening, I. Oey, M. Steiner, M. Morgan,
S. Rathinam, D. Waller;
1 Cardiff/UK, 2 Leicester/UK

**313 - LVRS with MDT Support can be Performed with Low Mortality and Morbidity Rate**
A. Mani, H. Raubenheimer, N. Hopkinson, M. Polkey, H. Chavan,
M. Dusmet, G. Ladas, E. Lim, S. Jordan;
London/UK

**314 - Is High-Risk Lung Volume Reduction Surgery (LVRS) Justified by Postoperative Benefit?**
I. Oey, G. Carnassale, M. Steiner, M. Morgan, S. Rathinam, D. Waller;
Leicester/UK

**315 - Effects of Donor and Recipient Age on Outcome following Lung Transplantation**
S. Farid, M. Roman, D. Thomas, P. Catarino, C. Sudarshan,
J. Dunning, Y. Abu-Omar, D. Jenkins, S. Tsui, J. Parmar;
Papworth/UK

**316 - Off-pump Bilateral Lung Transplantation Reduces Airway Complication Rates and Improves Early Outcome Measures compared to On-pump Bilateral Lung Transplantation?**
Papworth/UK

**317 - Outcomes of Thoracic Surgical Interventions on ECMO Patients: A 4 Year Experience**
P. Youssefi, T. Doyle, K. Harrison-Phipps, J. Pilling, J. King,
T. Routledge, L. Lang-Lazdunski, G. Glover,
C. Langrish, N. Ioannou, C. Meadows, N. Barrett;
London/UK
10:00 - 10:20
318 - Bridging to Lung Transplantation
G. Dellgren, Gothenburg/SE

10:20 - 10:35
319 - EVLP - Current Concepts
A. Fisher, Newcastle/UK

10:35 - 11:00
320 - Mechanical Support & Organ Perfusion:
The Present and a Vision of Future Developments
Transmedics Maquet Novalung
Xvivo VivoLine

Advance Heart Failure Surgery

Wed, March 12, 2014
Moorfoot: 11:30 - 14:00

Sponsored by Berlin Heart, HeartWare, Thoratec
Moderation: S. Clark, S. Schueler, S. Haj-Yahia, R. Venkateswaran, A. Ranasinghe;
1 Newcastle Upon Tyne/UK, 2 Glasgow/UK, 3 Manchester/UK, 4 Birmingham/UK

11:30 - 11:40
321 - ECLS as a Rescue in Cardiogenic Shock
P. Mohite, B. Zych, S. Kaul, D. Saez, A. Weymann, S. Penn, S. Silver, F. DeRobertis, T. Bahrami, M. Amrani;
1 London/UK, 2 Middlesex/UK

11:40 - 11:50
322 - Experience with the Organ Care System (OCS) Heart with Extended Criteria Donors and High Risk Recipients
1 London/UK, 2 Middlesex/UK

11:50 - 12:00
323 - Temporary Right Ventricular Support in Post Heart Mate II Right Ventricular Failure does not Negatively Impact Heart Transplantation Outcomes
M. Urban, J. Pirk, J. Besik, I. Netuka;
Prague/CZ

12:00 - 12:10
324 - The Underestimated Cost of Blood Transfusion in Patients with ECLS and ECMO; a Review of 318 patients in a French ECMO centre
P.E. Noly, A. Anselmi, P. Rouault, V. Desriac, V. Le Bouquin, A. Leguerrier, E. Flécher;
Rennes/FR

12:10 - 12:20
325 - Quality of Life after Heart Transplantation or LVAD Implantation: Toward the Equipoise?
E. Flécher, P. Rouault, A. Anselmi, P.E. Noly, B. Lelong, C. Chabanne, V. Desriac, A. Leguerrier;
Rennes/FR
12:20 - 12:30
**326 - Temporary Right Ventricle Support with ECMO in Patients with Right Heart Failure following Heart Mate II Device Implantation; a Single Centre Study**
P.E. Noly¹, M. Kirsch¹, A. Quessard¹, P. Leger¹, J. Amour¹, A. Pavie², P. Leprince³;¹ Rennes/FR,² Paris/FR

12:30 - 12:40
**327 - The National Experience of Renal Transplantation following Heart and/or Lung Transplantation**
Y.R. Chee, L. Wong, D. Healy, J.J. Egan, D. Sadlier, Y. O’Meara; Dublin/IE

12:40 - 13:00
**328 - Heart Transplantation in the Era of Ventricular Assist Devices**
A. Pavie; Paris/FR

13:00 - 13:20
**329 - Trends in MCS**
N. Banner; London/UK

13:20 - 13:50
**330 - Future Developments in LVAD Technology: A Visionary Corporate Perspective**
Berlin Heart
HeartWare
Thoratec

13:50 - 14:00
Discussion

---

**Board of Representatives**

**Wed, March 12, 2014**
Pentland: 13:45 - 15:45

Moderation: S. Kendall¹, T. Graham², G. Cooper³;¹ Middlesbrough/UK,² Birmingham/UK,³ Sheffield/UK
Congenital Heart Surgery
NICOR Congenital Steering Group
Mon, March 10, 2014
The Soutra: 11:00 - 14:00

Congenital NICOR Audit and Database Meeting
Mon, March 10, 2014
The Soutra: 15:00 - 18:00

Vascutek Congenital Breakfast session
Tue, March 11, 2014
Carrick: 08:00 - 09:00
Moderation: K Macarthur
t, N. Weeraseena;
1 Glasgow/UK, 2 Leeds/UK

Right Sided Valved Conduit Implantation with the Vascutek RVOT ELAN™;

Congenital Heart Surgery: Where have we come from and where are we going?
Tue, March 11, 2014
Carrick: 09:00 - 10:30
Moderation: P. Clift , O. Ghez;
1 Birmingham/UK, 2 London/UK

09:00 - 09:30
365 - A Surgical Overview
W. Brawn; Birmingham/UK

09:30 - 10:00
366 - A Cardiological Overview
S. Qureshi; London/UK

10:00 - 10:30
367 - UK Paediatric Cardiac Surgery:
A Discussion of the Minimal Standards
D. Barron; Birmingham/UK

Congenital Abstracts 1
Tue, March 11, 2014
Carrick: 11:00 - 12:30
Moderation: N. Weerasena , M. Danton;
1 Leeds/UK, 2 Glasgow/UK

11:00 - 11:10
369 - Perinatal Tissue-derived Stem Cells Exhibit Great Potential in Graft Tissue Engineering for Paediatric Cardiac Surgery
H. Jia, A. Hollander, D. Iacobazzi, M. Caputo, M. Ghorbel; Bristol/UK

11:10 - 11:20
370 - Tissue Engineering Vascular Grafts for Congenital Heart Corrective Surgery using Autologous Thymus-derived Stem Cells
M. Ghorbel , D. Iacobazzi , N. Singh , G. Angelini, M. Caputo;
1 Bristol/UK, 2 London/UK
11:20 - 11:30  
**371 - Aortopexy for Severe Tracheomalacia in Infants and Children: A Systematic Review**  
J. McGuinness¹, T. Ni hlíci², M. Redmond¹;  
¹ Dublin/IE, ² Cork/IE

11:30 - 11:40  
**372 - Blalock-Taussig Shunts: Changing Trends Locally and in the UK Central Cardiac Audit Database**  
R. Pandey, D. Dorobantu, F. Fiorentino, M. Caputo, A. Parry, S. Stoica; Bristol/UK

11:40 - 11:50  
**373 - Controlled Reoxygenation during Cardiopulmonary Bypass Induces Anti-inflammatory and Cardioprotective Response in Single Ventricle Patients undergoing Paediatric Heart Surgery**  
A. Mohktari¹, A. Miceli¹, M. Ghorbel¹, G. Angelini¹, A. Parry¹, S. Suleiman¹, M. Caputo¹;  
¹ Bristol/UK, ² London/UK

11:50 - 12:00  
**374 - Should Near Infrared Spectroscopy be Standard of Care in Children Undergoing Cardiopulmonary Bypass for Congenital Cardiac Disease?**  
K. Ayoubi, C. Canavan, M. Redmond, J. McGuinness, L. Nolke; Dublin/IE

**Hypoplastic Left Heart Syndrome - Jim Munro Session**

**Tue, March 11, 2014**  
Carrick: 13:30 - 15:55  
Moderation: T.J. Jones¹, S. Qureshi²;  
¹ Birmingham/UK, ² London/UK

**The Norwood Procedure:**  
Every Patient should have an RV-PA Conduit

13:30 - 14:00  
**376 - The Norwood Procedure: Every Patient should have an RV-PA Conduit - PRO**  
M. Griselli; Newcastle/UK

14:00 - 14:30  
**377 - The Norwood Procedure: Every Patient should have an RV-PA Conduit - CON**  
C. Austin; London/UK

14:30 - 15:15  
**378 - What is the Long Term Fate of the Fontan Circulation?**  
P. Clift; Birmingham/UK
Congenital Abstract 2

Tue, March 11, 2014
Carrick: 16:00 - 17:15
Moderation: M. Redmond¹, P. Venugopal²;
¹ Dublin/IE, ² Liverpool/UK

16:00 - 16:10
380 - Hybrid Procedure as an Alternative to Surgical Palliation of High-risk Infants with Hypoplastic Left Heart Syndrome and its Variants: Mid-term Outcomes
M. Murphy, H. Bellsham-Revell, G. Morgan, T. Krasemann, E. Rosenthal, S. Qureshi, C. Salih, C. Austin, D. Anderson;
London/UK

16:10 - 16:20
381 - Midterm Results of Atrial Fibrillation Surgery in Adult Congenital Patients with Interatrial Communication
M. Budra, A. Salmon, M. Kaarne, M. Lavrsen, A. Carroll, S. Fitzsimmons, N. Viola;
Southampton/UK

16:20 - 16:30
382 - The Presence of a Ventricular Septal Defect in Transposition of the Great Arteries does not Adversely Affect Survival after the Arterial Switch Operation
Birmingham/UK

16:30 - 16:40
383 - Aortic Valve Replacement in Children and Young Adults: Results from a National Database
M. Sharabiani¹, D. Dorobantu¹, G. Angelini¹, M. Turner¹, A. Tometzki¹, M. Caputo¹, A. Parry¹, S. Stoica¹;
¹ London/UK, ² Bristol/UK

16:40 - 16:50
384 - Do Surgical Strategies for the Repair of Aortic Coarctation have an Impact on the Rate of Recoarctation?
K. Shaikhrezai, N. Prabhu, M. Ilina, M. Danton;
Glasgow/UK

16:50 - 17:00
385 - Can the Principles of Aortic Root Surgery in Adults be Safely Applied to Children?
K. Ayoubi, J. McGuinness, L. Nolke, M. Redmond;
Dublin/IE

ABM

Tue, March 11, 2014
Pentland: 17:20 - 18:50
Moderation: J. Roxburgh¹, T. Graham², S. Kendall², G. Cooper³;
¹ London/UK, ² Birmingham/UK, ³ Middlesbrough/UK, ⁴ Sheffield/UK
Cardiac Surgical Movies

Tue, March 11, 2014
Sidlaw: 17:20 - 19:00

1 London/UK, 2 St Louis/US, 3 New York/US, 4 Texas/US, 5 New Haven/US, 6 Coventry/UK

17:20 - 17:29
239 - Aortic Valve Repair, Low fidelity Practice
A. Hossien;
Swansea/UK

17:29 - 17:38
240 - A Simple Set up for Complex Minimally Invasive Surgery
O. Swingland1, M. Moscarelli1, T. Athansiou1, M. Solinas2, R. Casula2;
1 London/UK, 2 Massa Carrara/IT

17:38 - 17:47
241 - Complex Mitral Valve Repair with Extracellular Matrix (CorMatrix®) for Bileaflet Extension
N. Nikolaidis, G. Sarlis, Z. Rusina, C. Bannister, A. Modi, S. Livesey;
Southampton/UK

17:47 - 17:56
242 - Novel Technique for Tricuspid Valve Annuloplasty in Patients Undergoing Concomitant Mitral Valve +/- AF surgery
P. Punjabi, M. Elshiekh, M. Sharabiani, S. Sarvananthan, A. Momin;
London/UK

17:56 - 18:05
243 - Right Anterior Thoracotomy Approach for Transaortic Transcatheter Aortic Valve Implantation (TAo-TAVI)
R. Attia, M. Thomas, V. Bapat;
London/UK

18:05 - 18:14
244 - Transmitral Valve-in-Valve TAVI
Z. Tristram1, M. Jackson2, S. Clark2, E. Shepherd2, A. Zaman2;
1 Market Rasen/UK, 2 Newcastle Upon Tyne/UK

18:14 - 18:23
245 - Two Surgical Strategies for Correction of Anomalous Origin of the Right Coronary Artery in Young Adults
R. Pandey, S. Stoica, M. Hamilton, M. Caputo;
Bristol/UK

18:23 - 18:32
246 - Beating Heart Totally Endoscopic Coronary Artery Bypass
M. Acharya, L. Harling, T. Athanasiou, R. Casula;
London/UK

18:32 - 18:41
247 - Excision of a Right Ventricular Outflow Tract Sarcoma
R. Birla, M. Caputo;
Bristol/UK
18:41 - 18:50
248 - Surgical Excision of Left Ventricular Fibroma in Adult Presenting as Angina!
S. Shanmuganathan¹, T. Chua², V. Chandrasekaran³;
¹ London/UK, ² Guildford/UK

18:50 - 18:59
249 - The Remarkable Story of a Left Atrial Myxoma in an Echocardiographer
Liverpool/UK

Board of Representatives

Wed, March 12, 2014
Pentland: 13:45 - 15:45
Moderation: S. Kendall¹, T. Graham², G. Cooper³;
¹ Middlesbrough/UK, ² Birmingham/UK, ³ Sheffield/UK
Thoracic Surgery
Improving Outcomes - Quality

Tue, March 11, 2014
Fintry: 08:00 - 10:00

Moderation: B. Naidu¹, J.E. King², S. Woolley³;
¹ Birmingham/UK, ² London/UK, ³ Liverpool/UK

08:00 - 08:10
386 - UK Institutional Validation of Thoracoscore in General Thoracic Surgery
Z. Niwaz¹, J. Karunanantham¹, J. Finch¹, J. Atkins¹, A. Daddar³;
P. Kimberley¹, G. Cowell¹, A. Weller¹, S. Jordan¹, E. Beddow³;
G. Ladas¹, V. Anikin¹, M. Dusmet¹, N. McGonigle³;
D. Kyparissopoulos¹, E. Lim³;
¹ London/UK, ² Middlesex/UK

08:10 - 08:20
387 - Anterior Approach VATS Lobectomy is Associated with Less Early Post-operative Pain compared to Single Interspace Posterior VATS Approach
N. Murray, D. Rasnayake, R. Sayeed, E. Black, E. Belcher;
Oxford/UK

08:20 - 08:30
388 - Pneumothorax after Drain Removal in Pleurectomy/Pleurodesis Surgery: Do Digital Drainage Devices Help?
R. Capoun, A. Hussain, T. Batchelor, G. Casali, R. Krishnadas, D. West;
Bristol/UK

08:30 - 08:40
389 - Air Leak Following Lung Resections as Measured by the Anaesthetic Machine Correlates with Length of Chest Drainage
S. Mohiyaddin¹, M. Acharya¹, Y. Haqzad¹, M. Khalil¹, M. Loubani¹;
K. Kotidis¹;
¹ Sheffield/UK, ² Hull/UK

08:40 - 08:50
390 - Do Surgeons and Patients Worry about the Same Complications following Lung Resection?
Liverpool/UK

08:50 - 09:00
391 - EmPower: Preoperative Optimisation of Patients Undergoing Lobectomy using an Electronic Media Based Exercise Program
H. Thirkettle, S. Stamenkovic;
Newcastle-upon-Tyne/UK

09:00 - 09:10
392 - Evaluation of Pulmonary Function Testing Prior to Surgical Resection for Primary Lung Cancer: An Audit of Compliance with the BTS Guidelines
M. Nawaz, L.J. Tan, E. Morrow, A. Kirk;
Glasgow/UK
**Clinical Thoracic Surgery**

**Tue, March 11, 2014**

Kilsyth: 08:00 - 10:00

Moderation: N. Apostolos¹, S. Stamenkovic³, K. Amer³;
¹ Leicester/UK, ² Newcastle Upon Tyne/UK, ³ Southampton/UK

08:00 - 08:10

**398 - Major Cardi thoracic Trauma: A 12-year outcome review of 1,153 patients in England and Wales**
M. Khorsandi¹, C. Skouras², K. Shaikhrezai³, T. Lawrence¹,
K. Rammohan³;
¹ Manchester/UK, ² Edinburgh/UK, ³ Glasgow/UK

08:10 - 08:20

**399 - What is the Real Scope for Chest Wall Intervention following Trauma in a UK Setting?**
K. McManus; Belfast/UK

08:20 - 08:30

**400 - Should Patients Undergoing Surgery for Primary Lung Cancer Receive Thromboprophylaxis in order to Reduce the Risk of Venous Thromboembolism; a Systematic Review**
R. Wotton¹, H. Vad², S. Pedersen², A. Hvas¹, B. Naidu¹, T. Larsen²,
T. Christensen³;
¹ Birmingham/UK, ² Aarhus/DK
08:30 - 08:40
401 - One Decade of Experience with Endoscopic Stenting for Intrathoracic Anastomotic Leakage following Oesophagectomy: Brilliant breakthrough or flash in the pan?
M. Schweigert1, N. Solymosi2, A. Dubecz3, M. Jiménez Fernández4, D. Ofner5, H. Stein1;
1 Neumarkt/DE, 2 Budapest/HU, 3 Nuremberg/DE, 4 Madrid/ES, 5 Salzburg/AT

08:40 - 08:50
402 - Prognostic Implications of Blood Tests Performed Routinely Prior to Surgical Resection of Non-Small Cell Lung Cancer
M. Smith1, A. Sharkey1, R. George2, R. Hubbard3, J. Rao1, J. Edwards1;
1 Sheffield/UK, 2 Leeds/UK, 3 Nottingham/UK

08:50 - 09:00
403 - Can we Predict the Need for Sternotomy in Management of Retrosternal Goitres?
M. Hawari1, K. To1, M. Mydin2, C. Uhbi1, J. Duffy3;
1 Nottingham/UK, 2 Newcastle Upon Tyne/UK

09:00 - 09:10
404 - Sequence of Interruption of Pulmonary Artery and Vein in VATS Lobectomy: Does it matter?
K. Amer1, A.Z. Khan2;
1 Southampton/UK, 2 Gurgaon/IN

09:10 - 09:20
405 - Is Diagnostic VAT Thymectomy an Acceptable First-line Approach to the Suspicious Mediastinal Mass?
V. Joshi1, R. Vaja1, A. Dawson1, D. Waller2;
1 Leicester/UK, 2 Nottingham/UK

09:20 - 09:30
406 - Thoracoscopic Sympathectomy using Single Port versus Multiple Ports as a Treatment for Palmar Hyperhidrosis
M. Muhammad, A. Allam; Alamadina Almunawara/SA

09:30 - 09:40
407 - Anterior v Posterior Approach VATS Lobectomy: A Limited Comparison
K. Amer1, E. Woo1, A.Z. Khan2;
1 Southampton/UK, 2 Gurgaon/IN

09:40 - 09:50
408 - Is Lobe Specific Nodal Dissection an Alternative to Systematic Dissection in Early Lung Cancer?
K. Amer, A. Khan, B. Addis, S. Jogai, N. Singh; Southampton/UK
09:50 - 10:00
**409 - Combined Approach for Resection of Residual Thoracic and Retroperitoneal Masses after Chemotherapy for Metastatic Nonseminomatous Germ Cell Tumours**
D. Eaton¹, A. Mariscal², M. Jewett², R. Hamilton³, M. de Perrot³, P. Bedard², M. Moore⁴;
¹ Dublin/IE, ² Toronto/CA

**Plenary Cardiothoracic Session including the Presidential Address**
**Tue, March 11, 2014**
Pentland: 10:30 - 12:30

**Session Sponsored by Ethicon**
Moderation: J. Roxburgh¹, C. Bannister², S. Barnard³, T. Graham⁴;
¹ London/UK, ² Southampton/UK, ³ Newcastle/UK, ⁴ Birmingham/UK

10:30 - 10:40
**183 - One Thousand Pulmonary Endarterectomy Operations - The UK Experience**
Papworth/UK

10:40 - 10:50
**184 - Cardiac Surgery Outcomes for Patients with Impaired Kidney Function: A Single-centre Randomised Trial of Intraoperative Zero-balanced Ultrafiltration**
B. Matata, N. Mediratta, N. Scawn, M. Morgan, S. Shirley, I. Kemp, R. Stables, S. Lane, S. Richards, A. Haycox;
Liverpool/UK

10:50 - 11:00
**185 - Hospital Procedure Volume is Strongly Associated with Improved Survival after Lung Cancer Surgery**
R. Page¹, M. Luchtenborg¹, S. Riaz¹, V. Coupland², H. Moller³, E. Lim³, M. Lind³, M. Peake⁴, E. Jakobsen⁵, M. Krasnik⁶;
¹ Liverpool/UK, ² London/UK, ³ Hull/UK, ⁴ Leicester/UK, ⁵ Odense/DK, ⁶ Copenhagen/DK

11:00 - 11:10
**186 - Formalisation of the Cardiothoracic Surgical Care Practitioner Role in the UK: A Multicentre Study**
B. Krishnamoorthy¹, J. Djordjevic¹, A. Marshall¹, T. Rankin¹; C. Birkett¹, S. Bryant¹, W. Critchley¹, T. Bartley¹; M. Lewis², T. Graham², N. Yonan³, R. Shah⁴;¹ Manchester/UK, ² Oxford/UK, ³ Liverpool/UK, ⁴ Plymouth/UK, ⁵ Birmingham/UK, ⁶ Cambridge/UK, ⁷ Brighton/UK

11:10 - 11:15
**Introduction to the Ethicon Scholarships**
M. Lewis¹, R. Shah²;¹ Brighton/UK, ² Manchester/UK

11:15 - 11:22
**187 - Ethicon Scholarship: Mitral Valve Surgery**
T. Barker;
Coventry/UK
11:22 - 11:29
188 - Ethicon Scholarship: Congenital Heart Surgery
M. Murphy; London/UK

11:29 - 11:34
189 - Introduction to the Marian and Christina Ionescu Scholarship
J. Roxburgh; London/UK

11:34 - 11:41
190 - Ionescu Scholarship: Aortic Surgery
D. Harrington; Liverpool/UK

11:41 - 12:01
An Update on Clinical Reference Groups
D. Keenan¹, R. Page²;
¹ Manchester/UK, ² Liverpool/UK

191 - Thoracic Surgical CRGs
192 - Cardiac Surgical CRGs

Presidential Address

12:01 - 12:08
Introduction
T. Graham, Birmingham/UK

12:08 - 12:28
193 - Presidential Address
J. Roxburgh, London/UK

Cardiothoracic Surgical Training

Tue, March 11, 2014
Tinto: 13:15 - 14:45

Moderation: M. Jahangiri¹, J. Hyde², M. Underwood³, S. Livesey⁴, S. Barnard⁵;
¹ London/UK, ² Brighton/UK, ³ Hong Kong/HK, ⁴ Southampton/UK,
⁵ Newcastle/UK

13:15 - 13:20
204 - Introduction
M. Jahangiri; London/UK

13:20 - 13:30
205 - A UK-wide Survey of Surgical Training: The Trainees Perspective
J. Smelt, G. Soppa, M. Jahangiri; London/UK

How to Assess Surgical Competency

13:30 - 13:37
207 - WBA and Wet Lab Assessment - Pro
D. McCormack; London/UK

13:37 - 13:44
208 - WBA and Wet Lab Assessment - Con
R. Uppal; London/UK
Service Provision: Does it Interfere with Training?
13:44 - 13:51
210 - Service Provision: Does it Interfere with Training? - Pro
S. Livesey; Southampton/UK
13:51 - 13:58
211 - Service Provision: Does it Interfere with Training? - Con
M. Jahangiri; London/UK

Should there be a Set Number of Operations Performed at the Point of CCT?
13:58 - 14:05
213 - Should there be a Set Number of Operations Performed at the Point of CCT? - Pro
S. Barnard; Newcastle/UK
14:05 - 14:12
214 - Should there be a Set Number of Operations Performed at the Point of CCT? - Con
R. Uppal; London/UK

ST 1 Entry?
14:12 - 14:19
216 - ST 1 Entry? - Pro
S. Livesey; Southampton/UK
14:19 - 14:26
217 - ST 1 Entry? - Con
J. Desai; London/UK

Conclusion
14:26 - 14:45
218 - Conclusion
M. Jahangiri; London/UK

Pushing the Boundaries in Stage I NSCLC

Joint Meeting with BTS / BTOG
Tue, March 11, 2014
Fintry: 13:30 - 15:30
Moderation: E. Bishay¹, M. Slade², K. Franks³;
¹ Birmingham/UK, ² Cambridge/UK, ³ Leeds/UK
13:30 - 13:40
410 - VATS Segmentectomy - The Future of Pulmonary Resection?
M. Will, R. Ramaesh, D. Smith, W. Walker;
Edinburgh/UK
13:40 - 13:55
411 - Pushing the Boundaries of Operability for Stage I Lung Cancer
E. Black, Oxford/UK
13:55 - 14:10
412 - The Role of Enhanced Recovery in Borderline Operability
T. Batchelor, Bristol/UK

14:10 - 14:25
413 - What your Physician can do for you in High Risk Patients
R. Booton, Manchester/UK

14:25 - 14:40
414 - SBRT will be Standard of Care in 2020
K. Franks, Leeds/UK

14:40 - 14:55
Discussion

14:55 - 15:00
416 - Introduction of the Tudor Edwards Lecture
E. Lim, London/UK

15:00 - 15:30
417 - Tudor Edwards Lecture:
Regional Node Assessment in Lung Cancer: A 40 year Odyssey
P. Goldstraw, London/UK

Mesothelioma Treatment in 2014

Joint Meeting with BTS / BTOG

Tue, March 11, 2014
Fintry: 16:00 - 17:15
Moderation: J. Edwards¹, N. Maskell¹, S. Popat¹;
¹ Sheffield/UK, ² Bristol/UK, ³ Papworth/UK

16:00 - 16:10
418 - The Importance of Accurate Pre-operative Biopsy in the Radical Management of Mesothelioma:
Don't Blame the Physician, just keep taking more bites
A. Sharkey¹, V. Joshi¹, R. Vaja¹, A. Nakas¹, D. Waller²;
¹ Leicester/UK, ² Nottingham/UK

16:10 - 16:25
419 - Results of MesoVATS Trial
R. Rintoul, Papworth/UK

16:25 - 16:40
420 - Surgery for Mesothelioma: Optimal Approach in 2014
D. Waller, Leicester/UK

16:40 - 16:50
421 - Medical Management of Pleural Effusion in Mesothelioma
N. Maskell, Bristol/UK

16:50 - 17:00
422 - Prognosis and Predicting Response to Treatment
N. Maskell, Bristol/UK

17:00 - 17:15
Discussion
ABM

Tue, March 11, 2014
Pentland: 17:20 - 18:50
Moderation: J. Roxburgh¹, T. Graham², S. Kendall³, G. Cooper⁴;
¹ London/UK, ² Birmingham/UK, ³ Middlesbrough/UK, ⁴ Sheffield/UK

Thoracic Surgical Movies

Tue, March 11, 2014
Fintry: 17:20 - 19:00
Moderation: T. Batchelor¹, K. Amer², K. Papagiannopoulos³
¹ Bristol/UK, ² Southampton/UK, ³ Leeds/UK

17:20 - 17:30
424 - Combined MIDCAB and VATS Left Upper Lobectomy
S. Jones, P. Modi, S. Woolley, M. Shackcloth;
Liverpool/UK

17:30 - 17:40
425 - A Technique for Insertion of an Extrapleural
Paravertebral Infusional Catheter for Postoperative Pain
Control after Thoracoscopy
K. McManus; Belfast/UK

17:40 - 17:50
426 - Successful Surgical Management of Lung Herination
with a Custom-made Rib Implant: First in the WORLD
F. Taghavi, Y. Abu-Omar, M. Scarci;
Papworth Everard/UK

17:50 - 18:00
427 - Role of 3D CT Scan in VATS Major Pulmonary
Resection (VMPR) in Patient with Complete Situs Inversus
A. Raza¹, S. Harden¹, A. Jenkins¹, L. Veres³, K. Amer³;
¹ Southampton/UK, ² London/UK

18:00 - 18:10
428 - Pushing the Limit: VATS Right Upper Lobectomy in a
Patient with Previous Ivor-Lewis Oesophagectomy and
Radiotherapy
M. Will, R. Ramaesh, W. Walker;
Edinburgh/UK

18:10 - 18:20
429 - Thoracics In Motion: 4D CT Scanning to Delineate
True Mediastinal Involvement
E. Senanayake¹, D. Eaton¹, G. McGann¹, P. Rajesh¹;
¹ Birmingham/UK, ² Cheltenham/UK

18:20 - 18:30
430 - VATS Lobectomy: Mediastinal Lymph Node Sampling
from an Anterior Approach
K. McManus, Belfast/UK

18:30 - 18:40
431 - Uniportal SILS VATs Robotic Thymectomy
F. Taghavi, Y. Abu-Omar, M. Scarci;
Papworth Everard/UK
18:40 - 18:40  
**432 - First UK Experience of Robotically Assisted Thoracic Surgery**  
B. Slight, M. Bernstein, S. Stamenkovic, S. Clark, J. Forty;  
Newcastle/UK

### Advanced Lung Failure Surgery

**Wed, March 12, 2014**  
Moorfoot: 09:00 - 11:00

**Sponsored by Transmedics, Maquet, Xvivo, VivoLine, Novalung**

Moderation: J. Dark¹, N. Yonan¹, A. Simon¹, S. Nair¹;  
¹ Newcastle/UK, ² Manchester/UK, ³ London/UK, ⁴ Cambridge/UK

**09:00 - 09:10**

**312 - Individualised Risk of Morbidity and Mortality following Lung Volume Reduction Surgery (LVRS): The Glenfield Score**

P. Vaughan¹, N. Greening², I. Oey², M. Steiner², M. Morgan²,  
S. Rathinam², D. Waller²;  
² Cardiff/UK, ³ Leicester/UK

**09:10 - 09:20**

**313 - LVRS with MDT Support can be Performed with Low Mortality and Morbidity Rate**

A. Mani, H. Raubenheimer, N. Hopkinson, M. Polkey, H. Chavan,  
M. Dusmet, G. Ladas, E. Lim, S. Jordan;  
London/UK

**09:20 - 09:30**

**314 - Is High-Risk Lung Volume Reduction Surgery (LVRS) Justified by Postoperative Benefit?**

I. Oey, G. Carnassale, M. Steiner, M. Morgan, S. Rathinam, D. Waller;  
Leicester/UK

**09:30 - 09:40**

**315 - Effects of Donor and Recipient Age on Outcome following Lung Transplantation**

Papworth/UK

**09:40 - 09:50**

**316 - Off-pump Bilateral Lung Transplantation Reduces Airway Complication Rates and Improves Early Outcome Measures compared to On-pump Bilateral Lung Transplantation?**

Papworth/UK

**09:50 - 10:00**

**317 - Outcomes of Thoracic Surgical Interventions on ECMO Patients: A 4 Year Experience**

P. Yousefi, T. Doyle, K. Harrison-Phipps, J. Pilling, J. King,  
T. Routledge, L. Lang-Lazdunski, G. Glover,  
C. Langrish, N. Ioannou, C. Meadows, N. Barrett;  
London/UK
10:00 - 10:20
318 - Bridging to Lung Transplantation
G. Dellgren, Gothenberg/SE

10:20 - 10:35
319 - EVLP - Current Concepts
A. Fisher, Newcastle/UK

10:35 - 11:00
320 - Mechanical Support & Organ Perfusion:
The Present and a Vision of Future Developments
Transmedics Maquet Novalung
Xvivo VivoLine

Solitary Pulmonary Nodule - Screening in lung cancer

Joint Meeting with BTS /BTOG
Wed, March 12, 2014
Fintry: 09:00 - 10:00
Moderation: D. Baldwin¹, T. Batchelor²;
¹ Nottingham/UK, ² Bristol/UK

09:00 - 09:20
433 - Lung Cancer Screening in UK: Can we make it work?
D. Baldwin, Nottingham/UK

09:20 - 09:35
434 - Solitary Pulmonary Nodule Debate Pro:
Preoperative diagnosis
N. Qureshi, Papworth/UK

09:35 - 09:50
435 - Solitary Pulmonary Nodule Debate Con:
Take it out anyway
D. Waller, Leicester/UK

09:50 - 10:00
Discussion

Multimodality Treatment in Lung Cancer

Joint Meeting with BTS /BTOG
Wed, March 12, 2014
Fintry: 10:00 - 11:00
Moderation: A. Kirk¹, M. Peake², I. Woolhouse³, K. Franks⁴;
¹ Glasgow/UK, ² Leicester/UK, ³ Birmingham/UK, ⁴ Leeds/UK

10:00 - 10:15
437 - What does Systemic Treatment add to Surgery in 2014?
S. Popat; London/UK

10:15 - 10:30
438 - Concurrent Chemo Radiotherapy for Stage 3A
J. Lester; Cardiff/UK

10:30 - 10:45
439 - Surgery for Stage 3A
R. Milton, Leeds/UK
10:45 - 11:00
Discussion

**Safer Operative Surgery**

**Wed, March 12, 2014**
Carrick: 11:30 - 13:30
Moderation: S. Patterson-Brown, Edinburgh/UK

**An introduction to NOTSS:**
Using the NOTSS (nontechnical skills for surgeons) system for understanding, observing and rating surgeons non-technical skills in the operating room.

This interactive session will introduce the NOTSS taxonomy of non-technical skills for surgeons and demonstrate how these skills can be observed, rated and used to provide constructive feedback.

---

**Safer Operative Surgery workshop for**

‘High performing teams in the operating theatre’

---

**An Interactive session for Thoracic and Cardiac Surgical and Nursing teams**

Wednesday 12th March 2014
11.30-13.30
Carrick
EICC

In Association with:
Royal College of Surgeons of Edinburgh
School of Psychology, Aberdeen University
Improving Outcomes in Thoracic Surgery

Joint Meeting with BTS / BTOG

Wed, March 12, 2014

Fintry: 11:30 - 12:30

Moderation: S. Stamenkovic1, M. Peake2, I. Woolhouse3, J. Lester4;

1 Newcastle/UK, 2 Leicester/UK, 3 Birmingham/UK, 4 Cardiff/UK

11:30 - 11:50
441 - Lessons From NLCA: Are we getting Better?
M. Peake1, I. Woolhouse2;

1 Leicester/UK, 2 Birmingham/UK

11:50 - 12:00
E. Lim1, M. Lühtenborg2, S. Riaz3, R. Page2, D. Baldwin1,
E. Jakobsen1, P. Vedsted1, M. Lind1, M. Peake2,
A. Mellemgaard1, J. Spicer2, L. Lang-Lazdunski1, H. Möller1;

1 London/UK, 2 Liverpool/UK, 3 Nottingham/UK, 4 Odense/DK,
5 Aarhus/DK, 6 Hull/UK, 7 Leicester/UK, 8 Copenhagen/DK

12:00 - 12:10
443 - The Changing Epidemiology of Lung Resections - A 10-Year Comparison in a Population of 962,040
R. Ramaesh, M. Will, R. Collins, W. Walker;
Edinburgh/UK

12:10 - 12:20
444 - "Who said size doesn’t matter?“ - The Benefits of Larger Specialist Thoracic Teams in Lung Cancer Management
N. Ismail, S. Rathinam, A. Sharkey, D. Waller;
Leicester/UK

12:20 - 12:30
445 - The Case for Segmentectomy in all Clinical Stage I Non-small Cell Lung Cancer (NSCLC)
A. Boulemden, K. Ang, V. Joshi, T. Tsitsias, A. Nakas, D. Waller;
Leicester/UK

Thoracic Oncology & Why would I ask for a Mediastinoscopy?

Joint Meeting with BTS / BTOG

Wed, March 12, 2014

Fintry: 12:30 - 13:45

Moderation: J. King1, S. Popat1, R. Rintoul2;

1 London/UK, 2 Cambridge/UK

Mediastinoscopy - Do Chest Physicians and Patients need it?!

12:30 - 12:40
458 - Why EBUS is Better?
N. Navani, London/UK
12:40 - 12:50
459 - What Mediastinoscopy can (still) do for you
M. Dusmet, London/UK

12:50 - 12:55
Discussion

12:55 - 13:05
461 - A Referral Proforma Reduces Time from Surgical Resection to Adjuvant Chemotherapy in Lung Cancer Patients
A. Menon, K. Hewitt, J. King, P. Taylor, M. Jones, P. Krysiak, R. Shah, K. Rammohan; Manchester/UK

13:05 - 13:15
462 - Excision of the Primary in Stage IV Non-small Cell Lung Cancer (NSCLC): A Feasibility Study
A. Dawson, V. Joshi, D. Waller; Leicester/UK

13:15 - 13:25
463 - Adjuvant chemotherapy for non-small cell lung cancer: Does VATS lobectomy deliver on its promises?
I. Paul, R. Al Saudi, P. Mhandu, Z. El Dean, A. Graham, K. McManus; Belfast/UK

13:25 - 13:35
464 - Follow up after Lung Cancer Surgery: Does Chest X-ray Improve Diagnostic Accuracy?
H. Azar, M. Khatri, T. Batchelor, G. Casali, D. West; Bristol/UK

Thoracic Surgery Abstracts

Wed, March 12, 2014
Kilsyth: 11:30 - 13:30
Moderation: C. Tan¹, R. Shah¹ S. Stamenkovic²; ¹London/UK ²Newcastle Upon Tyne/UK

11:30 - 11:40
446 - 2012-13 Winter Bed Pressures and Regional Access to Urgent Thoracic Surgery
E. Bottle, D. West, G. Casali, T. Batchelor; Bristol/UK

11:40 - 11:50
447 - VATS Left Cardiac Sympathetic Denervation (LCSD) in Effective in Treating Refractory Ventricular Arrhythmias
H. Raubenheimer¹, J. McGuigan¹, J. Till¹, F. Roses-Noguer¹, S. Jordan¹; ¹London/UK, ²Belfast/UK

11:50 - 12:00
448 - The Effect of Smoking on Anastomotic Stricture Rates following Oesophagectomy
N. Burnside, R. Beattie, I. Gamberdella, K. McManus; Belfast/UK
12:00 - 12:10
449 - Is Video-assisted Thoracoscopic Lung Biopsy Still a Gold Standard for Diagnosis of Interstitial Lung Disease? - A Single Centre 20-year Experience
1 Glasgow/UK, 2 Edinburgh/UK

12:10 - 12:20
450 - Modified Thoracoplasty using Breast Implant to Obliterate an Infected Pleural Space: An Alternative to Traditional Thoracoplasty
H. Khan, E. Woo, A. Alzetani; 
1 London/UK, 2 Southampton/UK

12:20 - 12:30
451 - Emergent Pneumectomy for Lung Gangrene: Does the Outcome Warrant the Procedure?
1 Neumarkt/DE, 2 Granada/ES, 3 Budapest/HU, 4 Nuremberg/DE, 5 Madrid/ES, 5 Salzburg/AT

12:30 - 12:40
452 - The Use of Endobronchial Valves for Emergency Air Leak Control in Mechanically Ventilated Patients
O. Nawaytou, R. Ghosal, D. West, M. Kornaszewska; 
1 Cardiff/UK, 2 Llanelli/UK, 3 Bristol/UK

12:40 - 12:50
453 - Reducing the Risk of Post Drain Removal Pneumothorax following Thoracic Surgery
O. Nawaytou, R. Rajnish, M. Kornaszewska; 
Cardiff/UK

12:50 - 13:00
454 - Post Thoracic Surgery Discharge Analgesia Audit - Are we Giving our Patients the Best Chance of a Quick Recovery?
M. Osborne, C. Lloyd; Stoke-on-Trent/UK

13:00 - 13:10
455 - Surgery for Parapneumonic Pleural Emphyema: What Influence does the Rising Prevalence of Multimorbidity and Advanced Age have on the Current Outcome?
M. Schweigert, A. Dubecz, N. Solymosi, M. Jiménez Fernández, D. Ofner, H. Stein; 
1 Neumarkt/DE, 2 Nuremberg/DE, 3 Budapest/HU, 4 Madrid/ES, 5 Salzburg/AT

13:10 - 13:10
456 - Lung Resection In The Very Elderly
E. Teh, M. Ibrahim, E. Belcher, E. Black; 
Oxford/UK
Board of Representatives

Wed, March 12, 2014
Pentland: 13:45 - 15:45
Moderation: S. Kendall\textsuperscript{1}, T. Graham\textsuperscript{2}, G. Cooper\textsuperscript{3};
\textsuperscript{1}Middlesbrough/UK, \textsuperscript{2}Birmingham/UK, \textsuperscript{3}Sheffield/UK

Thoracic Poster session

Tue, March 11, 2014
Thoracic Poster Area
Moderation: C. Tan\textsuperscript{1}, I. Hunt\textsuperscript{1}, J.E. King\textsuperscript{1}, S. Woolley\textsuperscript{2};
\textsuperscript{1}London/UK, \textsuperscript{2}Liverpool/UK

p59 - Pulmonary Resection for Sarcoma Metastasis; a Single Centre Experience Over Eight Years
D. Doherty, S. Grant, H. Doran, R. Shah, P. Krysiak, M. Jones;
Manchester/UK

p68 - The Role of Intra-operative Frozen Section Analysis for Cardiothoracic Sarcomas and other Mesenchymal Tumours
H. Raubenheimer, A. Green, G. Ladas, M. Dusmet, E. Lim,
A. Nicholson, S. Jordan; London/UK

p69 - Chest Wall Resection and Reconstruction for Cancer is Afforded by Good Long Term Outcomes; A 2-Decade Single Centre Experience
M. Abdelaziz, S. Mohamed, L. Jiang, N. Oswald, F. Collins, E. Bishay,
R. Steyn, P. Rajesh, B. Naidu, H. Khalil, M. Kalkat;
Birmingham/UK

p53 - Extreme Traumatic Chest Penetration with a 4-inch Metal Pipe; a Case Report
A. Oliemy; Tanta/EG

p58 - VATS Pleurectomy and Bullectomy: Should you Place One Drain or Two?
R. Robinson, S. Love, N. Mediratta, M. Poullis, J. Asante-Siaw,
R. Page, M. Shackcloth, S. Woolley; Liverpool/UK

p63 - Emergency Interventional Bronchoscopy in Patients with Symptomatic Airway Obstruction
L. Okiror, L. Jiang, N. Oswald, P. Rajesh, E. Bishay, R. Steyn, B. Naidu,
M. Kalkat; Birmingham/UK

p64 - Implication of Tumour Stage on Lymphovascular Invasion in Non-small Cell Lung Cancer
M. Diab, I. Jubber, A. Roman, I. Hunt, C. Tan; London/UK

p55 - Left Thoracotomy and Phrenotomy as an Approach for Oesophageal Cancer: Outcomes from a Thoracic Tertiary Referral Centre
P. Ariyaratnam, M. Loubani, A. Salah, A. Alibhai, M. Cowen;
Cottingham/UK

p60 - Primary Thoracic Sarcoma: Survival Data Captured from an Oncological Database
J. Wilcox\textsuperscript{1}, R. Morris\textsuperscript{2}, M. Smith\textsuperscript{2}, A. Marchbank\textsuperscript{3};
\textsuperscript{1}Torquay/UK, \textsuperscript{2}Plymouth/UK
p67 - Analysis of Pathological Reporting of Resected Bullae following VATS Bullectomy for Primary Spontaneous Pneumothorax

p56 - Thoracotomy and Decortication for Empyema, and Patterns of Community-acquired Pleural Space Infection in Contemporary Surgical Practice: Analysis of 107 cases
L. Okiror¹, C. Coltart², A. Bille³, L. Guile⁴, J. Pilling⁵, K. Harrison-Phipps⁶, T. Routledge⁷, L. Lang-Lazdunski⁸, C. Hemsley⁹, J. King¹⁰;
¹ Birmingham/UK,² London/UK,³ Milan/IT

p70 - Survival after VATS anatomical resection in NSCLC: Is it acceptable?
K. McManus; Belfast/UK

p61 - VATS Lobectomy for Lung Cancer without Preoperative Histological Diagnosis: Is it Justified?
K. Amer¹, A.Z. Khan¹, B. Addis¹, S. Jogai¹, N. Singh¹;
¹ Southampton/UK,² Gurgaon/IN

p57 - Fluoroscopy, Rigid/Fibreoptic Bronchoscopy and Balloon Dilatation for Benign Tracheal Strictures; an Alternative to Tracheal Resection
M. Nawaz¹, D. Anderson¹, M. Will¹, A. Kirk¹, A. Jilaihawi¹;
¹ Glasgow/UK,² Edinburgh/UK

p62 - Suspended Animation: A Potentially Life-Saving Technique in Patients with Exsanguinating Trauma
S. Mohiyaddin¹, M. Acharya¹, K. Kotidis², M. Khalil², M. Loubani²;
¹ Sheffield/UK,² Hull/UK

p65 - Pulmonary Metastasectomy for Renal Cancer: A Single-centre Experience
M. Hawari¹, M. Jadoon¹, M. Mydin¹, E. Addae-Boateng¹, A. Majewski¹, J. Duffy¹;
¹ Nottingham/UK,² Newcastle Upon Tyne/UK

p66 - Outcomes of Emergency Oesophagectomy in Cancer Patients following Instrumental Perforation
M. Hawari¹, M. Mydin¹, M. Jadoon¹, E. Addae-Boateng¹, J. Duffy¹;
¹ Nottingham/UK,² Newcastle Upon Tyne/UK

p3 - Recurrent Oesophageal Cancer Complicated by Tracheoesophageal Fistula - Improved Palliation by Means of Parallel Tracheal and Oesophageal Stenting
M. Schweigert¹, A. Dubecz², M. Jiménez Fernández², D. Ofner³, H. Stein⁴;
¹ Neumarkt/DE,² Nuremberg/DE,³ Madrid/ES,⁴ Salzburg/AT
Tuesday 11th & Wednesday 12th March 2014

‘Extended Practice’

Tuesday 11th March 2014
Sidlaw ‘The David Geldard Room’

Cardiac CT Forum Session - 08:00-10:00

Moderation:
Mr Stephen Clark - Consultant Cardiothoracic Surgeon, Director of Cardiopulmonary Transplantation, Freeman Hospital, Newcastle upon Tyne.
Ms Jeanette Douglass - Cardiac Rehabilitation Nurse, Northern General Hospital, Sheffield

08:00-08:15
332: Nurse led Pre Admission clinic in cardiac surgery
D.V. Sandeman;
Royal Infirmary of Edinburgh, Edinburgh

08:15-08:30
333: Specialist Nurse Meetings - Communication is Key
S. Sherwood, H. Luckraz;
New Cross Hospital, The Royal Wolverhampton NHS Trust, Wolverhampton

08:30-08:45
334: What are the perceptions of Healthcare Practitioners in a Cardio-thoracic setting to Nurse Prescribing?
J.M. Machiwenyika
Papworth Hospital NHS Foundation Trust, Cambridge

08:45-09:00
335: Should Recipients Choose their Donor? A National Survey of Patient Donor Choice Consent Forms
K. Morley, S. Clark
Freeman Hospital, The Newcastle upon Tyne Hospitals NHS Foundation Trust, Newcastle

09:00-09:15
336: An evaluation of a frailty tool for preoperative Transcatheter Aortic Valve Implantation (TAVI) patients and the patient’s conceptualisation of their own frailty
M. Roberts, C. Toolan, M. Desmond, M. Kuduvalli, A. Oo
Liverpool Heart & Chest Hospital NHS Foundation Trust, Liverpool

09:15-09:30
337: Early Aspirin after Coronary Artery Bypass Grafting (CABG) - why don’t they get it?!
G. Belitsis, S. Gardiner, F. Falconieri, M. Al-Sahaf, H. Witzke, J. Cotterill, J. Finch
Harefield Hospital, Royal Brompton & Harefield NHS Foundation Trust, London

09:30-09:45
338: What are the experiences of nurses when using a Modified Early Warning Score (MEWS) to measure patient deterioration in a specialist cardiothoracic hospital?
J. Quigley
Papworth Hospital NHS Foundation Trust, Cambridge
CARDIOTHORACIC FORUM

09:45-10:00
339 Research Nursing Uncovered
J.M. Cook
Oxford University Hospitals NHS Trust, Oxford

Coffee

Joint Plenary Session with the Main Meeting
10:30-12:30

Lunch

Cardiothoracic Forum Welcome Session & Thoracic Papers
13:30-15:30
Sidlaw

Moderation:
Ms Christina Bannister - SCTS Nursing & Allied Health Professional Representative
Mr Simon Kendall - SCTS Honorary Secretary

13:30-13:35
Welcome & Introduction:
Ms Christina Bannister - SCTS Nursing & Allied Health Professional Representative

13:35-13:55
Opening Remarks:
Ms Andrea Spyropoulos - RCN President ‘National RCN Perspective’

Thoracic CT Forum Papers
13:55-14:10
343: The Evolving Role of The Thoracic Advanced Nurse Practitioner (TANP): The Southampton Experience
V. Richardson, D. Kettel, A. Alzetani
University Hospital Southampton NHS Foundation Trust, Southampton

14:10-14:25
345: An Advanced Nurse practitioner led chest drain clinic; a review of the outpatient service in relation to clinical outcomes and effectiveness of the trust protocol
Liverpool Heart and Chest Hospital NHS Foundation Trust, Liverpool

14:25-14:40
346: Development and Implementation of the chest drainage system at home
D. Southey, D. Pullinger
New Cross Hospital, The Royal Wolverhampton NHS Trust, Wolverhampton
14:40-14:55
347: Successful development of a Nurse Led Thoracic Surgical Follow-up clinic
J. Mitchell, E. Belcher, E. Black
Oxford University Hospitals NHS Trust, Oxford

14:55-15:25
342: Thoracic Surgery Key Note Address
S. Balderson; N Carolina/US

Coffee

Cardiac Advanced Life Support (CALS) Session - 16:00-17:15

Moderation:
Mr Joel Dunning - Consultant Cardiothoracic Surgeon, James Cook University Hospital, Middlesbrough, Course Director for Cardiothoracic Advanced Life Support (CALS)
Ms Tara Bartley OBE, Advanced Nurse Practitioner, University Hospitals Birmingham NHS Foundation Trust, Birmingham

16:00-16:15
348: The Expanding Role of the Nurse in Emergency Resternotomy of a Patient post-cardiac surgery
J. Mills, L. Bell
Royal Victoria Hospital, Belfast Health and Social Care Trust, Belfast

16:15-16:30
349: Transferring the theoretical and simulation learning from the Cardiac Surgery Advanced Life Support Course to the real intensive care patient.
M.A. van Loo, J.D. Broughton, M.S. Owston, J. Dunning
The James Cook University Hospital, South Tees Hospitals NHS Foundation Trust, Middlesbrough

16:30-16:45
350: Review of the outcome of cardiothoracic advanced life support “CALS”
M. Elsaegh, J. Dunning
The James Cook University Hospital, South Tees Hospitals NHS Foundation Trust, Middlesbrough

16:45-17:15
351: Plenary Speaker:
Mr J Dunning - Update on CALS

Annual Dinner -
Reception at The Caledonian Hotel & Dinner @ Ghillie Dhu, Edinburgh
Wednesday 12th March 2014
Sidlaw ‘The David Geldard Room’

SCP Session
09:00-11:00
Sidlaw

Moderation:
Ms Tara Bartley OBE, Advanced Nurse Practitioner, University Hospitals Birmingham NHS Foundation Trust, Birmingham & Member of the SCTS Education Sub-Committee
Mr Tim Graham - SCTS President Elect

Plenary Speakers:
09:00-09:30
352: ‘The Physician Assistant Role in the USA; their role in cardiac surgery’
David Lizotte, President of the Association of Physician Assistants in Cardiovascular Surgery (APACVS), USA

09:30-09:45
353: ‘Introducing Physicians Assistant’s in Germany: an evolving role’
Professor Marcus Hoffmann, programme director of the Physician Assistant programme at the DHBW University, Karlsruhe, Germany

09:45-10:15
354: ‘Surgical Care Practitioners; changes in practice’
Maureen Jersby, senior lecturer in adult nursing at the University of Teesside.

10:15-11:00
Open Forum Discussion around the new SCP curriculum, training and development and the SCP exam.

Coffee
 SCP Abstracts

11:30-14:00
Sidlaw

Moderation:
Mr Andy Chukwuemeka - Consultant Cardiothoracic Surgeon, Chief of Service, Cardiothoracic Surgery, Imperial College Healthcare NHS Trust; Hon. Senior Lecturer, National Heart & Lung Institute.
Mr David Lizotte, President of the Association of Physician Assistants in Cardiovascular Surgery (APACVS) in the USA

11:30-11:45
186: Formalisation of the cardiothoracic surgical care practitioner role in the UK: a multicentre study
B. Krishnamoorthy1, J. Djordjevic1, A. Marshall1, T. Rankin1, C. Birkett1, S. Bryant1, W.R. Critchley1, T. Bartley2, M. Lewis2, T. Graham3, N. Yoon3, R. Shah1
1University Hospital of South Manchester NHS Foundation Trust, Manchester, 2Oxford University Hospitals NHS Trust, Oxford, 3Liverpool Heart & Chest Hospital NHS Foundation Trust, Liverpool, 4Plymouth Hospitals NHS Trust, Plymouth, 5University Hospitals Birmingham NHS Foundation Trust, Birmingham, 6Papworth Hospital NHS Foundation Trust, Cambridge, 7Brighton and Sussex University Hospitals NHS Trust, Brighton

11:45-12:00
358: Endoscopic radial artery harvesting for coronary artery bypass grafting: learning curve and results
G. Sobhun, S. Attaran, R. Yadav, R. Trimlett, A.C. De Souza
Royal Brompton Hospital, Royal Brompton & Harefield NHS Foundation Trust, London

12:00-12:15
359: Early insights from a Surgical Care Practitioner delivered EVH program
S. Power, V. Srivastava, J. Zacharias
Victoria Hospital, Blackpool Teaching Hospitals NHS Foundation Trust, Blackpool

12:15-12:30
360: Does ASEPSIS accurately predict surgical site infections leg wounds following CABG?
M.S. Owston, J.D. Broughton, S. Kendall, A. Clark
The James Cook University Hospital, South Tees Hospitals NHS Foundation Trust, Middlesbrough

12:30-12:45
361: Multi-disciplinary Approach to Minimise Surgical Site Infections in Cardiac Surgery
L. Butcher, L. O’Connor, R. Sayeed, C. Buchanan, S. Malone, M. Petrou
Oxford University Hospitals NHS Trust, Oxford

12:45-13:00
362: Management of post-operative wound infection after cardiac surgery: Are we following NICE guidelines?
S. Datta, P. Gowland, R. Hasan
Manchester Royal Infirmary, Central Manchester University Hospitals NHS Foundation Trust, Manchester
13:00-13:15
363: Cardiothoracic Wound Care - Development of a nurse-led clinic
N. Kumari, D. Southey, M. El-Saegh
New Cross Hospital, The Royal Wolverhampton NHS Trust, Wolverhampton

13:15-13:30
364: Home Recovery? The patient's experience of living at home with a sternal wound healing by secondary intention
K. Gough
University Hospitals Bristol NHS Foundation Trust, Bristol

13:30-14:00
590: Plenary Speaker and Closing Remarks:
Dr Peter Carter OBE - General Secretary & Chief Executive of the Royal College of Nursing
Miscellaneous
Database Managers

Increasing Transparency in the NHS and Managing Surgical Divergence: Supporting the SCTS Membership

Wed, March 12, 2014
Pentland: 11:30 - 13:40
Moderation: B. Bridgewater, G. Cooper, S. Westaby, S. Kendall, T. Graham;
1 Manchester/UK, 2 Sheffield/UK, 3 Oxford/UK, 4 Middlesbrough, 5 Birmingham

11:30 - 11:40
280 - Social Deprivation is an Independent Predictor of Short and Mid-term Outcomes following Cardiac Surgery; an Analysis of 243,835 Patients
S. Grant, J. Barnard, G. Hickey, B. Bridgewater; Manchester/UK

11:40 - 11:50
281 - Contemporary UK Cardiac Surgery Outcome Data: The SCTS I-Data App
S. Grant, G. Hickey, R. Cosgriff, M. Poullis, S. Kendall, J. Roxburgh, B. Bridgewater;
1 Manchester/UK, 2 London/UK, 3 Liverpool/UK, 4 Middlesbrough/UK

11:50 - 12:02
282 - Data, Apps and Professionalism
B. Bridgewater; Manchester/UK

12:02 - 12:14
283 - Cardiac Surgical Activity
J. Dunning; Middlesbrough/UK

12:14 - 12:24
284 - Open to Questions:

How should a Professional Society Support Members in an Era of Surgeon Specific Data?

12:24 - 12:29
286 - An Introduction
S. Kendall; Middlesbrough/UK

12:29 - 12:39
287 - Public Understanding of the Difficult Balance: A Patient's Perspective
HQIP Patient Representative

12:39 - 12:46
288 - Experience from a Medical Director in Scotland: Improving Cardiac Surgical Outcomes
M. Higgins; Glasgow/UK

12:46 - 12:53
289 - Experience from a Medical Director in England: Improving Cardiac Surgical Outcomes
T. Evans; London/UK
12:53 - 13:00
290 - A National Perspective from HQIP

13:00 - 13:10
291 - Phase of Care Mortality Review
S. Westaby; Oxford/UK

13:10 - 13:25
292 - The Future SCTS Approach
G. Cooper; London/UK

13:25 - 13:35
Discussion

13:35 - 13:38
294 - Summary and Future Direction
S. Kendall; Middlesbrough/UK

Database Managers Workshop

Wed, March 12, 2014
Ochil 1&2: 13:45 - 16:00

Interactive Workshop
Moderation: R. Cosgriff; London/UK

13:45 - 13:50
471 - Welcome
R. Cosgriff; London/UK

13:50 - 14:20
469 - Workshop 1 - Dataset Update
R. Cosgriff; London/UK

14:20 - 14:50
470 - Workshop 2 - Minimum data requirements
R. Cosgriff; London/UK

14:50 - 15:20
472 - Workshop 3 - Database managers’ choice
R. Cosgriff; London/UK

15:20 - 15:50
473 - NACSA Question Time
B. Bridgewater; Manchester/UK

General Meetings
**Education Sub-Committee**

*Mon, March 10, 2014*

The Soutra: 08:00 - 09:00

Moderation: M. Lewis¹, R. Shah¹, C. Bannister², M.O. Murphy³, D. McCormack¹, S. Kendall¹, N. Moorjani⁴, S. Rathinam⁴,
M. Loubani⁵, E. Bishay⁵, M. Scarci⁶, A. Coonar⁷, T. Bartley⁸, I. Wilson⁸;

¹ Brighton/UK, ² Manchester/UK, ³ Southampton/UK, ⁴ London/UK,
⁵ Middlesbrough/UK, ⁶ Cambridge/UK, ⁷ Leicester/UK,
⁸ Hull/UK, ⁹ Birmingham/UK

**ACSA AGM**

*Mon, March 10, 2014*

Carrick: 14:00 - 17:00

**Perfusion Safety Committee**

*Mon, March 10, 2014*

Ochil 3: 15:30 - 17:00

**J&J Training Sessions**

*Mon, March 10, 2014*

Exhibition Hall 17:00-20:00

**ETHICON Pure Progress Anastomotic Skills Lab**

UK Faculty

**Perfusion Society Executive Committee Meeting**

*Mon, March 10, 2014*

Ochil 1&2: 17:30 - 19:30

**Adult Cardiac Surgery Sub-Committee**

*Mon, March 10, 2014*

Ochil 3: 17:30 - 18:30

Moderation: T. Graham¹, D. Jenkins¹, M. Bhabra¹,
A. Chukwuemeka¹, N. Briffa¹, B. Bridgewater¹,
M. Jahangiri¹;

¹ Birmingham/UK, ² Cambridge/UK, ³ London/UK, ⁴ Sheffield/UK,
⁵ Manchester/UK

**Trainees Meeting**

*Mon, March 10, 2014*

Pentland: 18:00 - 20:00
Cardiac Surgery CRG Group  
*Tue, March 11, 2014*  
Ochil 1&2: 08:00 - 10:30  
Moderation: D. Keenan; Manchester/UK

J&J Training Sessions  
*Tue, March 11, 2014*  
Exhibition Hall 09:00-17:00  
**ETHICON Pure Progress Anastomotic Skills Lab**  
UK Faculty

Congenital Sub-Committee  
*Tue, March 11, 2014*  
The Soutra: 12:30 - 13:30  
Moderation: A. McLean, A. Parry, P. Venugopal, C. Austin, A. Hoschitzky, M. Redmond, J. Roxburgh, D. Barron;  
† Glasgow/UK, ‡ Bristol/UK, † Liverpool/UK, ‧ London/UK,  
* Manchester/UK, 五 Dublin/IE, 六 Birmingham/UK

Perfusion College Council Meeting  
*Tue, March 11, 2014*  
Ochil 3: 13:30 - 16:00

SCTS Treasurer Interviews  
*Tue, March 11, 2014*  
The Soutra: 15:30 - 16:30  
Moderation: S. Kendall, T. Graham, E. Black, M. Dalrymple-Hay;  
† Middlesbrough/UK, 五 Birmingham/UK, 五 Oxford/UK, 六 Plymouth/UK

MARS2 Trial Group  
*Tue, March 12, 2014*  
17:15 - 19:00  
Moderator: Eric Lim, London/UK

ABM  
*Tue, March 11, 2014*  
Pentland: 17:20 - 18:50  
Moderation: J. Roxburgh, T. Graham, S. Kendall, G. Cooper;  
† London/UK, 五 Birmingham/UK, 五 Middlesbrough/UK, 六 Sheffield/UK
Patrick Magee Students Poster Prize

Wed, March 12, 2014
Ochil 1&2: 08:00 - 09:30

Leader as an Educator Programme Organisers Meeting

Wed, March 12, 2014
Ochil 3: 08:00 - 10:00
Moderation: C. Munsch; Leeds/UK

Thoracic Sub-Committee

Wed, March 12, 2014
The Soutra: 08:00 - 09:00
Moderation: D.A. Waller\(^1\), S. Kendall\(^1\), E. Black\(^3\), R.D. Page\(^1\), R. Shah\(^5\), K. McManus\(^4\), J. Edwards\(^5\), D. Baldwin\(^1\), R. Steyn\(^10\), H. Wilson\(^7\);
\(^1\) Nottingham/UK, \(^2\) Leicester/UK, \(^3\) Middlesbrough/UK, \(^4\) Oxford/UK, \(^5\) Liverpool/UK, \(^6\) Manchester/UK, \(^7\) Belfast/UK, \(^8\) Sheffield/UK, \(^9\) Birmingham/UK, \(^10\) London/UK

J&J Training Sessions

Wed, March 12, 2014
Exhibition Hall 09:00-11:00

ETHICON Pure Progress Anastomotic Skills Lab
UK Faculty

Exhibitors Meeting

Wed, March 12, 2014
Ochil 3: 12:00 - 13:00
Moderation: I Wilson Birmingham/UK, J Hyde Brighton/UK
T.Mitchell London/UK

Cardiothoracic Trainees Research Collaborative

Wed, March 12, 2014
Carrick: 13:45 - 15:45
Moderation: C. Burdett; Middlesbrough/UK;

Board of Representatives

Wed, March 12, 2014
Pentland: 13:45 - 15:45
Moderation: S. Kendall\(^1\), T. Graham\(^1\), G. Cooper\(^1\);
\(^1\) Middlesbrough/UK, \(^2\) Birmingham/UK, \(^3\) Sheffield/UK
Sorin Group provides unique integrated solutions for cardiac surgery, targeted to improving patient care and health economic outcomes. In collaboration with leading physicians Sorin Group continuously supports and further develops innovative therapies for cardiac patients worldwide.
Exhibition Guide
## Exhibitors List for Exhibition in Cromdale Hall

<table>
<thead>
<tr>
<th>Stand</th>
<th>Company Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Johnson &amp; Johnson</td>
</tr>
<tr>
<td>B</td>
<td>Medtronic</td>
</tr>
<tr>
<td>C</td>
<td>Cardio Solutions &amp; St Jude</td>
</tr>
<tr>
<td>D</td>
<td>Edwards</td>
</tr>
<tr>
<td>E</td>
<td>Vascutek</td>
</tr>
<tr>
<td>F</td>
<td>B.Braun</td>
</tr>
<tr>
<td>1</td>
<td>CareFusion</td>
</tr>
<tr>
<td>2</td>
<td>Lemon Chase</td>
</tr>
<tr>
<td>3</td>
<td>CALS</td>
</tr>
<tr>
<td>4/5</td>
<td>Maquet</td>
</tr>
<tr>
<td>7</td>
<td>Fannin UK</td>
</tr>
<tr>
<td>8</td>
<td>Abbott Vascular</td>
</tr>
<tr>
<td>9/11</td>
<td>Sorin Group</td>
</tr>
<tr>
<td>12</td>
<td>GBUK</td>
</tr>
<tr>
<td>13</td>
<td>Tissuemed</td>
</tr>
<tr>
<td>14</td>
<td>Heartware</td>
</tr>
<tr>
<td>15/16</td>
<td>Cardiologic</td>
</tr>
<tr>
<td>17</td>
<td>CryoLife</td>
</tr>
<tr>
<td>18</td>
<td>UK Medical</td>
</tr>
<tr>
<td>19</td>
<td>Eusa Pharma</td>
</tr>
<tr>
<td>20</td>
<td>Medistim</td>
</tr>
<tr>
<td>25</td>
<td>Pulmonx</td>
</tr>
<tr>
<td>26</td>
<td>Medela</td>
</tr>
<tr>
<td>27/28</td>
<td>Teleflex</td>
</tr>
<tr>
<td>35</td>
<td>Scanlan</td>
</tr>
<tr>
<td>36</td>
<td>Siemens</td>
</tr>
<tr>
<td>37</td>
<td>Life Stream Healthcare Limited</td>
</tr>
<tr>
<td>38</td>
<td>Covidien</td>
</tr>
</tbody>
</table>

### Outside Cromdale Hall

<table>
<thead>
<tr>
<th>Stand</th>
<th>Company Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>41</td>
<td>British Heart Valve Society</td>
</tr>
<tr>
<td>42</td>
<td>Sigmacon</td>
</tr>
<tr>
<td>44</td>
<td>Qualitech Healthcare Limited</td>
</tr>
</tbody>
</table>

### Strathblane Foyer

<table>
<thead>
<tr>
<th>Stand</th>
<th>Company Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>Dot Medical Ltd</td>
</tr>
<tr>
<td>25</td>
<td>Dendrite</td>
</tr>
<tr>
<td>35</td>
<td>CalMedical</td>
</tr>
<tr>
<td>45</td>
<td>Techno Path Kimberley-Clark</td>
</tr>
<tr>
<td>55</td>
<td>AORTA</td>
</tr>
</tbody>
</table>
Edinburgh ICC
EICC - Strathblane Foyer
Level 0
ABBOTT VASCULAR
STAND 8

Abbott Vascular, a division of Abbott, is a global leader in cardiac and vascular care with market-leading products and an industry-leading pipeline. Headquartered in Northern California, we are committed to advancing patient care by transforming the treatment of vascular disease through medical device innovations, investments in research and development, and physician training and education.

We offer cutting-edge devices for coronary artery disease, peripheral vascular disease, carotid artery disease and structural heart disease.

UK and Nordics
Abbott Laboratories Ltd
Abbott House
Vanwall Business Park
Vanwall Road
Maidenhead SL6 4XE
www.abbottvascular.com

AORTA
STRATHBLANE FOYER 5S

AORTA - A Multidisciplinary Journal Devoted to the Aorta and its First-Order Branches (ISSN 2325-4637), Published bi-monthly, open-access and peer-reviewed.

This journal is to be devoted to diseases of the aorta, both thoracic and abdominal. Both occlusive and aneurysm disease will be covered. This journal focuses directly on the aorta and its first-order branches (innominate, carotid, subclavian, celiac axis, superior mesenteric artery, renal arteries, and iliac arteries). No other journal has this direct focus on the aorta. It is anticipated that articles will be included on imaging of aortic diseases, natural history of aortic diseases, surgical treatment of aortic diseases, percutaneous ('non-invasive') treatment of aortic diseases, new operations for these diseases, and new medical/surgical products and technologies for the care of patients with aortic disease. Also, basic scientific articles on aortic and great vessel disease will be included. It is anticipated that clinical series as well as laboratory reports would appear. Reports dealing with the intrathoracic great vessels and the proximal origins of the abdominal visceral arteries will be included. Trauma topics will be welcome.

The journal is expected to appeal to and be subscribed by a multidisciplinary group of specialists, including cardiothoracic surgeons, vascular surgeons, cardiologists, vascular radiologists, interventional radiologists, cardiovascular anesthesiologists, engineers, and basic science researchers in vascular medicine. The journal is intended to foster cross-fertilization of ideas between basic scientists and clinicians. This journal incorporates a number
of educational scientific and clinical features and "entertaining" clinical segments not available in traditional journals. The intent is to go beyond limitations and restrictions of current journals. An on-line version and website will provide a mechanism for extensive still visual content as well as video segments (e.g. surgical procedures).

Website: aorta.scienceinternational.org
© 2011-2013 Science International Corp. All rights reserved. | 203-329-884

B. BRAUN MEDICAL LTD

STAND F

For over 140 years Aesculap, part of B. Braun Medical Ltd, has been at the cutting edge of surgical instrument design and manufacture. The Aesculap brand is synonymous with producing high quality, precision instruments, used across all specialities within the operating theatre.

The B. Braun ethos of ‘Sharing Expertise’ extends to surgical instruments, many of which have been designed in conjunction with leading surgeons across the world.

Aesculap offer an extensive cardiovascular instrument portfolio including a wide range of high quality precision micro instruments. Available in both traditional stainless steel or lighter titanium, these are designed to provide the cardiac surgeon with delicate yet durable tools that modern surgical techniques demand.

As new surgical procedures evolve, Aesculap is at the forefront of developing innovative instrument solutions to meet these new demands. Our range of Minimum Invasive Valve Surgery Instrumentation and the new EinsteinVision 3D HD camera system are the results of such innovation.

To discuss all of your instrumentation requirements, view and handle our extensive range of micro instruments or try your skills on our MIVS trainer complete with our new EinsteinVision 3D HD Camera system, visit the B. Braun stand at this year’s SCTS.

www.bbraun.com
www.surgical-instruments.info

BRITISH HEART VALVE SOCIETY

OUTSIDE CROMDALE HALL 41

The influence and importance of valve disease is increasing and yet the subject remains under-represented. The British Heart Valve Society was therefore formed at the start of 2010. Its purpose is to improve the care of patients with heart valve disease within the British Isles by increasing awareness and knowledge. There are four main types of activity:
1. Meetings
2. Articles
3. Research
4. Working groups

Membership is open to all disciplines involved with the science and clinical care of heart valve disease. This includes, in alphabetical order: bioengineers, cardiac nurses, cardiac surgeons,
cardiologists, general practitioners, geneticists, haematologists, health economists, managers, microbiologists, pathologists, physiologists, public health physicians, and sonographers. The Society is officially associated with the British Cardiovascular Society (BCS) and endorsed by the Society of Cardiothoracic Surgeons of Great Britain and Ireland (SCTS).

www.bhvs.org.uk

**CALMEDICAL**
**STRATHBLANE FOYER 3S**

CalMedical Scotland Ltd is a distribution company offering new technologies to Cardiothoracic Surgeons in the UK. To introduce these techniques and products we are very focused on training and support as well as offering the highest possible quality and flexibility to service evolving surgical practice. We are based in Lanark in Scotland and are the UK distributors for Biomet Inc (Sternal Fixation, Pectus Repair, Chest Wall Reconstruction), Cardiamed Ltd (Mechanical Valves), Gunze Ltd (Reinforcement for Lung Surgery), AutoTissue GmbH (Tissue Patches and Valves) and Starch Medical (Seal Foam Haemostat). We look forward to seeing you on our stand at the SCTS Meeting.

**Contact Details:**
Phone: 0800 954 9212
Email: info@calmedical.co.uk
Web: www.calmedical.co.uk

**CARDIAC ADVANCED LIFE SUPPORT COURSE**
**STAND 3**

STOP PRESS: The CALS course is now an official European Resuscitation Council course. Not only do we teach the 2009 EACTS guidelines for the resuscitation of patients after cardiac surgery, but we are a part of the Resuscitation Council and our certificates will be officially recognised by all relevant authorities. This highly innovative 2-day course teaches all aspects of the treatment of critically-ill patients post-cardiothoracic surgery. The course features lectures and a manual but the emphasis is on practical training. A mock-up ICU with manikins and theatre equipment is used for cardiac-arrest training, and for the critically-ill surgical patient, manikins with laptop-simulated monitors and one-to-one training is used. We also feature hands-on IABP training, tracheostomy, airway and pacing emergencies, CXR, ECG and blood gas interpretation. This course is intended for both doctors and nursing staff interested or likely to be involved in the care of the critically ill patient. CICU and ward nurses, surgical assistants, nurse practitioners, SHOs and junior registrars have all benefited from attendance on our previous courses.

**Dates for 2013:** 11th-12th April Penrith, 5th to 6th June in St Georges, 28th to 29th Nov in Wythenshawe
Joel Dunning  
The Old Rectory  
Crosby Garrett  
Kirkby Stephen  
CA17 4PW  
Tel: +44 78015 48122  
Email: joeldunning@doctors.org.uk  
www.joeldunning.co.uk  

The Cardiothoracic Advanced Life Support Course  
www.csu-als.com  

You can download the Full EACTS European Guideline for resuscitation here: http://dx.doi.org/10.1016/j.ejcts.2009.01.033  
You can download the csu-als handbook at www.lulu.com/spotlight/cardiacsurgeryadvancedlifesupportcourse  
You can also see us on youtube. Click on www.youtube.com/watch?v=PHgYzDgQJgc  
And we have a discussion site on facebook here: www.facebook.com/group.php?gid=115765272129&ref=mf  

CARDIO SOLUTIONS  
STAND C  

Cardio Solutions is a British company dedicated to the supply and sales management of Cardiothoracic equipment to the UK health market. Established in 2005, Cardio Solutions has continued to build on relationships within the medical industry to ensure a high quality professional service in the delivery of Cardiothoracic equipment, education and support to NHS staff, Trusts and hospitals.

Our product portfolio encompasses some of the finest innovations in medical technology including; St Jude Medical Heart Valves, Conduits and Mitral Repair Rings; Medical Concepts Europe, Temporary Pacing Wires and Disposable Patient Cables; CorMatrix, ECM Technology to repair and remodel damaged cardiovascular tissue; A&E Medical, Aortic Punches, Sternal Wire including the Double Wire and their Temporary Pacing Wires; FLEXIGRIP Nitinol Sternal Closure Clips from Praesidia S.r.l; Integuseal from Kimberly Clarke that helps reduce surgical site infection in all surgical disciplines; TeDan Surgical Innovations Sternal Retractor; Estech Inc, devices & instruments for MIS and both concomitant and stand alone AF surgical device inc Fusion 150 for MIS AF surgery; Terumo Inc, Off-Pump CABG Surgery; Wexler Surgical Instruments for Adult and Paediatric Cardiac Surgery, Thoracic and VATS and our most recent product line LSI Solutions; CorKnot, a suture tying device for reduced bypass time.

For further information please talk to your local representative or contact Cardio Solutions head office on:  
Tel: +44 (0)800 612 80 20  
Fax: +44 (0)800 612 80 30  
Email: customer.services@cardiosolutions.co.uk  
Web: www.cardiosolutions.co.uk
**CARDIOLOGIC LTD**

STANDS 15 & 16

This year the Cardiologic stand is becoming a “dry lab” for The Cox Maze 4 procedure. Realistic rubber hearts and instructional videos, provided by Atricure, will be available for those wanting to fine tune their AF surgical technique. We will also be demonstrating the Correx aortic-valve bypass system which incorporates the Bio-Valsalva conduit.

Cardiologic are launching their exciting new “own label” range of temporary pacemakers and pacing wires in Edinburgh. We look forward to seeing you.

Cardiologic Ltd.
Hillside House
Cowesby
Thirsk
North Yorkshire YO7 2JL
UK

Tel: +44 (0)1845 537 870
Fax: +44 (0)1845 537 872
Website: www.cardiologic.co.uk
Contact: Andrew Coane, Sales and Marketing Director
Mobile: 07870 255 758
Email: andrewcoane@cardiologic.co.uk

---

**CAREFUSION**

STAND 1

At CareFusion, we understand that infection prevention is the key to reducing healthcare associated infections (HCAIs). We help our customers to measurably improve patient care by working in close partnership with hospitals to protect both your operating team and your patients through the provision of clinically proven infection prevention products.

Patient’s skin dwelling bacteria are the major source of infections associated with medical and surgical invasive procedures. Normally ‘harmless’, these bacteria live in the top five cell layers of the skin and can enter the bloodstream whenever the integrity of the skin is breached - for example in surgery.

Whilst hand washing and appropriate environmental cleaning are essential to the prevention of cross-contamination and limiting the spread of MRSA, the patient and their skin should not be left out of the prevention equation. Blood stream and surgical site infections remain a significant burden to the NHS, patients and their families. The use of all appropriate, evidence based measures to prevent the avoidable infections is paramount.

ChloraPrep® is the only licensed and evidence-based skin preparation system that meets the new Department of Health High Impact Intervention to prevent surgical site infection. CareFusion is committed to providing a safer environment for everyone.

To visit more please visit www.chloraprep.co.uk

---

CAREFUSION INTERVENTIONAL SPECIALITIES
(PART OF UK MEDICAL)

STAND 18

At CareFusion, we are united in our vision to improve the safety and lower the cost of healthcare for generations to come. Our Interventional Specialties portfolio offers innovative solutions for acute and chronic drainage including the PleurX® catheter system for compassionate home-management of recurrent pleural effusion and the Safe-T-Centesis® drainage system for thoracentesis.

www.carefusion.co.uk/pleurx
Tel: 0114 268 8880
Fax: 0114 268 8881
CareFusion
Interventional Specialties
Albreda House
Lydgate Lane
Sheffield, S10 5FH

COVIDIEN

STAND 38

Covidien is proud to sponsor the Society of Cardiothoracic Surgery of Great Britain and Ireland meeting 2014. Covidien recognises the challenges faced in modern day surgery and we continue to develop innovative products and solutions in response to feedback from our consumers. We strive to improve our portfolio to enable consistent patient outcomes of surgery in Cardiac and Thoracic procedures.

Covidien are honoured to partner with the Cardiothoracic surgical community in the development and promotion of best practices, and are proud to develop resources and education programmes. Please visit Covidien and be introduced to our new extended surgical solutions of Tri-Staple™ Technology, V-Loc™ Wound Closure Device, LigaSure™ Vessel Sealing devices and Sonicion™ Energy platform.

COVIDIEN, COVIDIEN with logo, Covidien logo and positive results for life are U.S. and/or internationally registered trademarks of Covidien AG. Other brands are trademarks of a Covidien company. 2010. Covidien

Covidien (UK) Commercial Ltd
4500 Parkway
Whiteley
Hampshire PO15 7NY
Tel: +44 (0)1329 224 000
Fax: +44 (0)1329 224 400
CRYOLIFE EUROPA LTD

STAND 17

CryoLife Europa Ltd. is a wholly owned subsidiary of CryoLife, Inc., the leader in the processing and distribution of implantable living human tissues for use in cardiovascular, and vascular surgeries. CryoLife deliver a full range of glues, sealants and haemostats, with advanced technologies for all bleeding applications. BioGlue® Surgical Adhesive is used as sealant, adhesive and for tissue reinforcement is clinically proven in over 800,000 procedures and 450 studies. BioGlue is available in 2ml, 5ml and 10ml sizes and a variety of tips so it can be applied in thin films and laparoscopically. PerClot®, the next generation haemostat, used in 100,000 cases. PerClot is a natural plant based haemostat that is simple to use and effective. PerClot is available in 1g, 3g, and 5g sizes and with tip lengths for open, laparoscopic or robotic procedures. BioFoam® is a unique sealant haemostat, delivered as a liquid it rapidly expands to form a haemostatic foam that seals tissue and promotes cellular aggregation, for use on Cardiovascular and abdominal parenchymal tissue. BioFoam is available in 2ml, 5ml and 10ml sizes.

CryoLife
Bramley House, The Guildway
Old Portsmouth Road, Guildford, Surrey GU3 1LR
Website: www.cryolife.com

DENDRITE CLINICAL SYSTEMS LTD

STRATHBLANE FOYER 25

Dendrite Clinical Systems is a specialist supplier of clinical databases, with >250 hospital installations and >110 national & international databases across 44 countries, the company has an unmatched client base and unrivalled experience. In conjunction with the SCTS, Dendrite has developed the UK & Ireland National Thoracic Surgery Registry, the first national registry funded by the General Medical Council. The company's sophisticated clinical outcomes database management system creates an environment in which the analysis and reporting of data becomes easy and clinically meaningful. The software allows clinical users with the ability to track time related clinical data for analysis of any medical or surgical procedure, all within a single software environment. Please come and visit our exhibition stand to register for the National Thoracic Surgery Registry and for a software demonstration.

Dendrite Clinical Systems Ltd
The Hub
Henley-on-Thames
Oxfordshire RG9 1AY
Tel: 01491 411 288
Fax: 01491 411 377
Email: info@e-dendrite.com
Website: www.e-dendrite.com
Head Office Contact: Dr Peter K H Walton, Managing Director
DEPUY SYNTHES
STAND A

DePuy Synthes Companies of Johnson & Johnson is the largest, most comprehensive orthopaedic and neurological business in the world, built upon the strong legacies of two great companies. DePuy Synthes Companies offer an unparalleled breadth and depth of technology, devices, services and programs in the areas of joint reconstruction, trauma, spine, sports medicine, neurological, cranio-maxillofacial, cardiothoracic, power tools and biomaterials. Our broad array of inspired, innovative and high-quality offerings help advance the health and wellbeing of people around the world.

DOT MEDICAL
STAND 1S

Dot Medical Ltd has been supplying products for 16 years to the NHS and specializes in state-of-the-art technology. At SCTS Dot Medical will be showing the Osypka Triple Chamber external pacer with independent left and right ventricular pacing algorithms as well as the new TAVI features in the Osypka Dual Chamber external pacer. A prolific range of Osypka pacing wires will also be on display as well as the extremely popular non-invasive CO monitor which has been CE marked and FDA approved for use in Adults, Children and Neonates.

DR. F. KöHLER CHEMIE GmbH
STRATHBLANE FOYER 11S

Dr. F. Köhler Chemie is an independent, family owned business with representations on all five continents. Since 1959, we provide products in the fields of electrolytes, contrast media, antidotes, anaesthetics, as well as organ protective and cardioplegic solutions. We are a committed partner of cardiac and transplant surgery worldwide.

Contact:
Dr. F. Köhler Chemie GmbH
Werner-von-Siemens-Straße 22-28
64625 Bensheim, Germany
Phone: +49 6251 1083 0
Fax: +49 6251 1083 176
Email: info@koehler-chemie.de
Website: www.koehler-chemie.de
EDWARDS LIFESCIENCES UK & IRELAND

STAND D

Since the first successful heart valve replacement with the Starr-Edwards(tm) Silastic Ball Valve more than 50 years ago, Edwards Lifesciences has been dedicated to providing innovative solutions for people fighting advanced cardiovascular disease, the world's leading cause of death and disability. Edwards Lifesciences is the global leader in the science of heart valves and hemodynamic monitoring. Driven by a passion to help patients, the company partners with clinicians to develop innovative technologies in the areas of structural heart disease and critical care monitoring that enable them to save and enhance lives.

Edwards, Edwards Lifesciences, the stylized E logo and Starr-Edwards are trademarks of Edwards Lifesciences Corporation. © 2014 Edwards Lifesciences Corporation. All rights reserved.

Please visit our website at:
www.edwards.com

ETHICON LTD

STAND A

ETHICON Products, part of the JOHNSON & JOHNSON Family of Companies is the worldwide leader in suture products and suture technology. ETHICON has a long history of innovation in providing products—including sutures, topical adhesives and wound drains, that enhance patient care. Since its founding over 120 years ago, the Company has worked in partnership with clinicians, aligning our technological innovation to support the ever-evolving standards of surgery. We consider it our mission to be a valuable partner at every step of every CV surgical procedure.

Our tradition of innovation has resulted in introductions that include PROLENE* Polypropylene Sutures, BV-175 Series Needles, ETHIBOND* Excel Polyester Sutures and our new Plus Sutures that provide antibacterial protection to prevent bacterial colonisation on the suture. We also offer DERMABOND® ADVANCED Topical Skin Adhesive, providing comfortable, secure wound closure with a microbial barrier and excellent cosmetic results.

In 2012 ETHICON will launch EVERPOINT™ Cardiovascular Needles which are designed to deal which provide advanced penetration performance.

In 2012 ETHICON will launch EVERPOINT™ Cardiovascular Needles which are designed to deal which provide advanced penetration performance.

ETHICON Biosurgery has the most comprehensive range of Haemostasis Solutions and has continued to bring to market innovative technologies including EVICEL® fibrin sealant (Human), SURGIFLO® with Thrombin, SURGICEL® NU-KNIT® and SURGICEL® FIBRILLAR™ to the Topical Absorbable Haemostat sector.

With this broad range of products, ETHICON is present at every
step of coronary artery bypass graft, valve, and closure procedures, from pericardial retraction to chest closure.
Ethicon Products
P.O. Box 1988
Simpson Parkway
Kirkton Campus
Livingston  EH54 0AB
Tel: +44 (0)1306 594500

**EUSA PHARMA**

EUSA Pharma is a rapidly growing transatlantic specialty pharmaceutical company focused on oncology, pain control and critical care. The company has three products which it currently markets in the UK:

* Collatamp® EG: an antibiotic surgical implant for the treatment and prevention of post-surgical infection. Prevent and treat surgical site infections with Collatamp. In the LOGIP trial, the risk of sternal wound infection is halved with Collatamp.

* Erwinase®: in combination with other anti-neoplastic agents for the treatment of acute lymphoblastic leukaemia.

* Caphosol®: as an adjunct to standard oral care for the prevention and treatment of oral mucositis caused by radiation and high dose cancer therapy

Contact Details:
EUSA Pharma, Building 3, Gateway 1000, Arlington Business Park, Whittle Way, Stevenage, Hertfordshire. SG1 2FP.
Tel: 01438 740720
Fax: 01438 735740
www.eusapharma.com


**FANNIN UK LIMITED**

Fannin (UK) Ltd. have been trading in the UK since 1991 (over 180 years in Ireland) previously trading as B.M. Browne (UK) Ltd. prior to October 2007 when we rebranded.
The Fannin Group i.e. Fannin Ireland, Northern Ireland, Fannin UK and our sister companies TPS Healthcare, Squadron Medical & Firth Medical are wholly owned subsidiaries of DCC Plc (www.dcc.ie).
Fannin Ltd. Ireland is the current market leader in Hospital Supplies within Ireland and is also developing a strong business platform in England, Scotland and Wales. DCC Healthcare is one of Ireland’s leading public companies, listed on the Irish and London stock exchanges.
Fannin (UK) is committed to quality in all aspects of our business. We provide high levels of supplier and customer service through product training and focused sales teams, an extensive distribution reach, excellent backup and technical support.
The Surgical division was acquired in January 2012 and previously traded as Forth Medical Ltd and NorthStar Orthopaedics Ltd.
The Orthopaedic business unit has been a leading distributor of medical devices and theatre ancillaries in the UK for over 27 years and offers niche and new technology platforms in shoulder, hand & wrist, hip, knee, foot & ankle and trauma.

G+N MEDICAL

G+N Medical, established in 1974, is a leading supplier of medical equipment and consumables to NHS hospital trusts. We specialise in innovative products which improve patient outcomes. ThorAcc® is an innovative, non-invasive device which assists in sternal closure after open sternotomy procedures. It has been developed to facilitate uniform alignment of the sternum, reduce incidence of mediastinitis and reduce critical care hospital stay time.

G+N Medical
Maydwell Ave
Off Stane Street
Slinfold, Horsham
West Sussex RH13 0GN
Tel: +44 (0) 845 263 8908
Fax: +44 (0) 845 263 8907
Email: medsales@gandn.com
Website: www.gandn.com

GBUK HEALTHCARE

GBUK Healthcare is launching the NEW “PALM EVO” Digital Chest Drain.
Redax “PALM EVO” is the very latest digital chest drain system that allows continuous monitoring of trans-pleural airflows and pleural pressures.
The unit consists of a reusable digital control unit and suction pump placed on top of a disposable collection chamber. The suction pump can be deactivated to convert the system to standard water seal drainage.
Collected data is displayed on 2 screens: an LCD screen for setting suction level and visualising basic functions, and a full-colour touch screen showing instantaneous and cumulative (99hours) pressures/flows - both with absolute values and graphics.
Data download can be performed whilst the system is working, without removing the control unit, by connecting to a pc.
PALM EVO provides an effective comparison between pressure and flow trends, enabling a case by case understanding of how the lung-pleural cavity system is working.
Distinguishing between active air leak and pleural space effect aids the correct choice of suction level - allowing safe chest tube removal.

GBUK Healthcare
Tel: +44(0) 1757 288587
Email: info@gbukhealthcare.com
Web: gbukhealthcare.com
HEARTWARE INC  
STAND 14

HeartWare is a global medical device company dedicated to delivering safe, high-performing and transformative therapies that enable patients with heart failure to get back to life. The company's innovative technologies are creating advances in the miniaturization of Ventricular Assist Devices (VADs) leading to less invasive surgical procedures and increasing the patient population who may be suitable for VAD therapy. HeartWare's breakthrough innovations begin with the HVAD® Pump, designed to be implanted next to the heart in the pericardial space avoiding the more invasive surgical procedures required with older LVAD technologies. The HVAD Pump is commercially available around the world.

www.Heatware.com

KLS MARTIN UK LTD  
STRATHBLANE FOYER 135

KLS Martin is a recognised partner in the field of laser surgery, with KLS Martin lasers representing an indispensable part of any advanced operating environment. Our product range comprises powerful diode-pumped Nd:YAG lasers, CO2 lasers and diode lasers. Extensive experience, dedication and a distinctly inventive mind-set are the drivers behind the innovative KLS Martin systems for laser surgery. "Making operable what was previously inoperable" - this is the motto that guides our development efforts, day after day.
For KLS Martin, this motto is more than a claim - it is a commitment based on our continuous effort to research, develop, manufacture and market innovative solutions. The commitment shows in the result: all parties involved - from sales partners to users to patients - can be sure to get a solution of impeccable quality that satisfies the highest demands.
In the UK, KLS Martin lasers are distributed exclusively by Lynton Lasers Ltd., who are the UK's leading manufacturer and provider of laser solutions and associated equipment to the medical, cosmetic and beauty industries."

LEMONCHASE  
STAND 2

Lemonchase are the exclusive UK distributors of Designs for Vision loupes. Designs for Vision are the number one choice for surgeons worldwide (indeed, they are the choice of over 95% of surgeons in the US and UK).
Whether you are contemplating first pair or would like advice on any changes to your current pair, Mark Chase would be delighted to see you at their stand where they are also demonstrating Designs for Vision's outstanding range of Lithium Ion, Battery powered lights, for up to 12 hours of continual use.
Please contact 01892 752305 or info@lemonchase.com/www.lemonchase.com
LIFE STREAM HEALTHCARE LIMITED

STAND 37

Life Stream Healthcare Limited
The Studio
Silverwood Farm
Landford Wood
Salisbury
Wiltshire SP5 2ES
Tel: 01722 568063
Email: johncooper@life-stream.co.uk
Website: www.life-stream.co.uk
Contact: John Cooper

Life Stream have developed a communication system that allows you to hold fully functional JCC/MDTs with all your referring cardiology units as often as you like and without the need to actually drive to the units in person, saving enormous amounts of time. The technology allows you to talk directly, face-to-face in real time with the clinicians at the remote site, whilst simultaneously viewing fluoro or echo images in full clarity without delays or pixellation.

We developed this solution in order to address the toughest challenge, that of viewing high quality moving images, specifically around Cardiology. This technology streams these images rather than transferring them, differentiating this from standard teleconferencing. PACS systems are already well developed and established across the NHS, and the issues have always centred on having a system that could enable simultaneous communication between clinicians and the viewing of live images in real time with no image degradation.

With the recent NHS changes in April 2013 and SCTS/BCIS guidelines, it is now a requirement that all potential PCI patients be reviewed with Consultant Cardiac Surgeons in a formal MDT/JCC. This increases the pressure on cardiac surgeons, and the need for remote MDTs is becoming even more relevant.

MAQUET

STANDS 4 & 5

MAQUET will be showcasing a number of exciting products on our stand this year. CARDIOHELP, Maquet’s latest technology in ECLS is a versatile and compact solution for the most critically ill patients. With the ability to perform both VV and VA ECMO, low flow CO2 removal and VAD, CARDIOHELP represents the future in ECLS, to add to this it is the only system approved for transportation for Adult and Paediatric patients.

Our Cardiac Assist division unveils the new CARDDOSAVE Intra-aortic balloon pump. It’s more than a pump, it’s a revolution. From our Cardiac Surgery division we have HEMOPRO 2 and TIGERPAW® System II. HEMOPRO 2 is our latest version of the much trusted EVH system. With more safety features and greater ease of use you can be sure of conduit quality with MAQUET.
The TIGERPAW® System II with its unique fastener technology is designed with soft silicone housing to minimize risk and damage to the friable LAA. Once implanted, the Fastener conforms to the shape and thickness of the patient’s appendage, resulting in 100% clinically proven occlusion.

Maquet Ltd
14-15 Burford Way
Boldon Business Park
Sunderland
Tyne and Wear
NE35 9PZ
Tel: +44 (0)191 519 6200
Fax: +44 (0)191 519 6201
Email: info@maquet.co.uk
Website: www.maquet.co.uk

**MEDELA**

STAND 26

Over the past 50 years, Medela has developed from a small family owned company in Switzerland to a global producer of innovative Medical Vacuum Technology. Throughout our company history we have questioned conventional solutions in order to manufacture Swiss quality products that are based on sound and thorough research.

In close collaboration with medical experts we strive to set new standards in thoracic drainage therapy. Our aim is to provide advanced treatment with easy to use systems that improve and simplify patient management whilst being cost efficient.

Our digital chest drain, Thopaz, offers a progressive therapy that allows physicians and nursing staff to monitor air leaks objectively, aiding them to make timely decisions in chest tube management.

Medela Healthcare offers a range of uniquely designed medical vacuum pumps and consumables for various application areas.

www.medela.co.uk
Customer Service Team: Tel No. 0161 776 0400

**MEDISTIM ASA**

STAND 20

Medistim is the innovator and market leader within intra-operative transit time flow measurement (TTFM) and ultrasound imaging. We develop, manufacture and bring to market the quality assessment systems VeriQ and VeriQ C for cardiac, vascular and transplant surgery. Our TTFM technology became part of the ESC/EACTS guidelines on myocardial revascularization in 2010, and in 2011 our VeriQ TTFM system was recommended by the National Institute for Health and Clinical Excellence (NICE) for routine use within the UK national health system (NHS).
MEDTRONIC LTD

STAND B

Find Opportunity in Change and consider Medtronic’s intuitive solutions in Structural Heart and Aortic Diseases including: tissue, mechanical and transcatheter valves; irrigated RF and cryo surgical ablation devices; aortic stent graft systems and OPCAB, MICS CABG, cannulae and perfusion products.

Please visit us on stand B where the team will be happy to discuss our comprehensive range of products, including our innovative 3f Enable® Sutureless Prosthetic Tissue Heart Valve; designed for the less invasive and minimally invasive procedures to take advantage of procedural innovations, and with proven hemodynamics and durability based on the same tubular leaflet structure of the 3f® Aortic Bioprosthesis.

Medtronic are pleased to provide a free patient-education app for cardiac surgeons and cardiologists, available from iTunes®!

An intuitive, interactive app; designed to simplify and support the complex judgement calls physicians make every day. The app provides heart valve resources to simplify:

* Patient education
* Treatment consideration
* Collaboration with peers

Why not take a look and download using the following link:

www.seizesimplicity.com/

Medtronic Limited
Cardiac Surgery Division
Building 9
Croxley Green Business Park
Hatters Lane
Watford
WD18 8WW
Tel: +44 (0) 1923 212213
Fax: +44 (0) 1923 241004
www.medtronic.co.uk
www.innovatingforshd.com

PIERSON SURGICAL

OUTSIDE CROMDALE HALL 45

Pierson Surgical Ltd specialises in products for Cardiac Surgery including the BioIntegral Surgical range of No-React® tissue devices. Don’t miss the presentation on the 10 year follow up results of the No-React® Aortic Valved BioConduit on Wed 12 March at 1035, part of the Pierson Surgical sponsored session on the Science and Surgery of the Aortic Root

* BioIntegral Surgical No-React® Valves and Patches. No-React® is a proprietary detoxification of glutaraldehyde-treated tissue which ensures excellent device longevity through: enhanced biocompatibility, lower rates of infection, no calcification and the promotion of endothelial lining. The No-React® Aortic Valved BioConduit is the world’s only all-biological valved conduit, comprising a porcine valve and bovine conduit. No-React® Porcine Pericardial Patches are available in a wide range of sizes. All BioIntegral Surgical products are available
on the NHS Supply Chain Catalogue.
* Delacroix-Chevalier Surgical Instruments - made in France to the highest standards of design and craftsmanship. Precision Micro instruments, Minimally Invasive instruments for Cardiac Valve Surgery and Video Assisted and Thoracoscopic Surgery.
* Péters Surgical Sutures - a specialist range for Cardiac surgery, including Cardionyl® for Mitral Valve Repair and Corene® which has very low memory, ideal for Coronary grafts.
* HaemoCer™ Powder Haemostat - a highly effective, safe, advanced polysaccharide powder that rapidly accelerates natural clotting and forms a thick gel matrix over the site of the bleeding. 100% plant based, it is completely reabsorbed by the body within 48 hours. Ideal for all Cardiothoracic surgery including sternal haemostasis.

Contact us on 01225 766632 or sales@piersonsurgical.com
Website: www.piersonsurgical.com
Fax: 07092 315510

PNEUMRX INC
STRATHBLANE FOYER 9S

PneumRx, Inc. is a California based medical device start-up focused on developing minimally-invasive solutions for unmet medical needs in pulmonary medicine. Our flagship product, the RePneu® Lung Volume Reduction Coil, addresses the key challenges in emphysema management. The Coil is designed to reduce lung volume and restore elastic recoil to improve lung function, exercise capacity, and quality of life for patients with emphysema. Made from shape-memory Nitinol, the RePneu Coil compresses hyperinflated tissue and tethers small airways to prevent airway collapse without blocking lung tissue or provoking fibrosis.
Most endoscopic treatment methods focus only on reducing lung volume by blocking or destroying parts of the emphysematous lung. PneumRx's approach has been to develop a technique to help restore elastic recoil in healthier regions, while simultaneously achieving lung volume reduction of highly diseased areas of the lung.

PULMONX
STAND 25

Pulmonx, based in Neuchâtel, Switzerland and Redwood City, California, is focused on developing and marketing minimally-invasive medical devices and technologies for the diagnosis and treatment of pulmonary disorders. Pulmonx is the only company to offer both a diagnostic and therapeutic solution to effectively manage emphysema-induced hyperinflation, offering new hope to patients and physicians alike. In partnership with leading hospitals around the world, we continue to treat patients with a broad range of emphysema and develop procedural techniques to optimize outcomes from this exciting therapy.
Pulmonx takes a unique approach to treating emphysema by providing an assessment tool to plan and optimize EBV treatment. The Chartis® Pulmonary Assessment System is composed of a balloon catheter and a simple, easy-to-use console which characterises airflow within lung regions. The goal is to understand the patient’s specific lung anatomy in order to plan for optimal treatment.

The company has CE mark for the Zephyr EBV and the Chartis System, and Pulmonx products are sold in Europe, Asia, and in other countries worldwide. The company does not yet market or sell its products in the United States.

QUALITECH HEALTHCARE LIMITED
OUTSIDE CROMDALE HALL 44

Qualitech Healthcare is a technology-driven company presenting The Venner™ PneuX P.Y.™ - VAP Prevention System - a major development in the prevention of Ventilator-Associated Pneumonia (VAP).

Designed to prevent pulmonary aspiration, the leading cause of VAP, whilst minimising damage to the airway. The system facilitates sub-glottic irrigation and drainage, and works in conjunction with the Venner™ Tracheal Seal Monitor (TSM) which maintains a constant cuff pressure preventing aspiration. The TSM is designed exclusively for use with the Young LoTrach™ ETT and the Young LoTrach™ TT.

With proven clinical benefits in elective cardiac patients, The Venner™ PneuX P.Y.™ - VAP Prevention System offers improved patient outcomes together with cost effectiveness.

For further information or to arrange a presentation, please contact n.dill@qualitechhealthcare.co.uk

SCANLAN
STAND 35

Since 1921 Scanlan have been committed to the design and manufacture of the highest quality surgical instrumentation. A family business in its fourth generation, Scanlan is dedicated to providing the best products to medical professionals around the world; from individually handcrafted instrumentation to a range of unique single-use products.

Offering 3000 specialty instrument designs, these instruments are handcrafted with meticulous detail to meet the exacting needs of surgeons. This precision provides excellent tactile response allowing the instrument to become a virtual extension of the surgeon’s hand.

Scanlan understands that surgical procedures continue to evolve with the advancement of techniques and technology. To support these ever changing needs, Scanlan offers custom modifications to all surgical instrumentation.
The Siemens Healthcare Sector is one of the world’s largest suppliers to the healthcare industry and a trendsetter in medical imaging, laboratory diagnostics, medical IT and hearing aids. In surgery, Siemens is the market leader in the field of hybrid ORs - operating rooms equipped with an angiography system for interventional imaging. Performing lung cancer surgery in a hybrid OR is a relatively new development but the concept has already proven its benefits in about 100 cases performed in Germany, Belgium, Japan and the US. Rotational angiography (syngo DynaCT) creates CT-like 3D-images, clearly displaying lung nodules, even small ones below 1cm and GGOs. A needle-guidance software allows for marking the nodule to make it clearly visible under fluoroscopic or optic guidance during excision. This way interventional imaging can make up for the loss of tactile sensing and help to make VATS quicker, safer and more precise. Besides usage in VATS, interventional imaging also dramatically increases the yield rates of lung biopsies, even in nodules below 1cm. Using hybrid ORs for biopsies and VATS will be especially beneficial for small SPNs detected in screenings which are difficult to biopsy and excise in a precise, tissue-sparing way. For further information please visit: www.siemens.com/surgery

Sigmacon (UK) Ltd has been serving the National Health Service and Private Health Care System for over thirty years. We supply a wide range of products for the operating theatre and outpatient clinic. Sigmacon’s business philosophy is simple - premium products with premium service focused on its customer’s needs, striving to provide solutions and develop constant improvements that foster long lasting relationships. We supply a wide range of products for the operating theatre and outpatient clinic.

Training
We provide a wide range of training opportunities from individually tailored sessions to weekend courses which we hold around the country and abroad. We view continued training as an integral part of our business and a good way to build lasting customer relationships.

Technical Support
We have a team of highly trained engineers on site who are able to provide ongoing support and advice whenever you require it.

Technology
We are the distributor for a wide range of surgical, ophthalmology and aesthetic products and are always researching the very latest in technology. By constantly reassessing our product range we can ensure that our customers benefit from the very latest in technological advances and in turn provide the best treatment for their patients.
SORIN GROUP

STANDS 9 / 11

Sorin Group (www.sorin.com) is a global, medical device company and a leader in the treatment of cardiovascular diseases. The Company develops, manufactures, and markets medical technologies for cardiac surgery and for the treatment of cardiac rhythm disorders. With 3,750 employees worldwide, the Company focuses on two major therapeutic areas: Cardiac Surgery (cardiopulmonary products for open heart surgery, heart valve prostheses and repair devices) and Cardiac Rhythm Management (pacemakers, defibrillators and non invasive monitoring to diagnose arrhythmias and deliver anti-arrhythmia therapies as well as cardiac resynchronization devices for heart failure treatment) Every year, over one million patients are treated with Sorin Group devices in more than 80 countries.

Sorin Group UK Ltd
1370 Montpellier Court
Gloucester Business Park
Gloucester, GL3 4AH
Tel: +44 (0)1452 638 500
Fax: +44 (0)1452 638 530

ST JUDE MEDICAL

STAND C

At St. Jude Medical our line of Cardiac Surgery products brings together over 30 years of innovation and experience to offer cardiac surgeons more choice through a comprehensive line of innovative solutions. This product line includes mechanical heart valves, tissue heart valves and valve repair rings that continues to demonstrate St. Jude Medical’s commitment to cardiac surgery. St. Jude Medical recently celebrated the 35th anniversary of their first mechanical heart valve implant, which occurred at the university of Minnesota in 1977. Since then St. Jude Medical has continued to innovate in its valve development with our Regent™ and Epic™ families of mechanical and porcine valves as well as Trifecta™, the next-generation in pericardial tissue heart valves.

SYMETIS

STRATHBLANE FOYER 10S

Symetis is a Swiss-based, rapidly growing medical technology company that specialises in developing transcatheter aortic valve (TAVI) systems in close collaboration with treating physicians. Symetis’ mission is to provide greater control to physicians with systems that are intuitive to use, with rapid learning curves and optimal positioning. We are a pure-play company, highly focused and able to respond rapidly to physicians’ changing needs. We are committed to continual investment in R&D and to incorporating feedback from physicians at every step of the development process. Our research and development is based in Switzerland, close to our customers. This philosophy has enabled us to design and manufacture products that truly reflect the needs of our clinical partners.
We develop TAVI systems of all sizes and for all main access routes: transapical, transfemoral and transaortic. Our unique portfolio uses intelligent-design features such as innovative self-seating and self-sealing valves, to ensure smooth procedures, reduce stress to physicians and improve outcomes for patients.

TECHNOPATH
STRATHBLANE FOYER 4S

Founded in 1997, TECHNOPATH, delivers the most cutting edge technologies and products whilst providing customers with the highest levels of support and service. TECHNOPATH have extensive experience in sales, distribution and customer support of Digestive Health, Critical Care and Pain Management, with over 90% of deliveries made next day following receipt of order. The company has grown exponentially and recently took over the distribution of the highly innovative I-Flow product range in Ireland. This product range includes both the On-Q ‘PainBuster’ system, which allows for continuous infusion of local anaesthetic to the surgical site, as well as the Peripheral Nerve Block Pain Relief systems which allows for continuous infusion of local anaesthetic near a nerve.

I-Flow’s innovation improves patient care, while reducing overall treatment costs and in partnership with TECHNOPATH guarantees service and support of the highest standard.

Please visit us at stand 45 in Strathblane Hall.
Tel: +353 (0) 61 335844 Fort Henry Business Park
I.S. EN ISO 9001:2008 Reg No 19.5023
Fax: +353 (0) 61 203034
Technopath Distribution Limited
Ballina, Co Tipperary, Ireland
Registered in Ireland no. 266560
I.S. EN ISO 13485:2003
Reg No: MD19.3999
Email: info@techno-path.com
VAT No. IE826656OU
www.techno-path.com
Registered office as above.

TELEFLEX
STANDS 27 & 28

Teleflex is a global provider of medical devices used in critical care, surgery and homecare. We serve healthcare providers in more than 130 countries with specialty devices for vascular access, general and regional anesthesia, urology, respiratory care, cardiac care, and surgery. Teleflex also provides products and services for device manufacturers.

SUPPORT FOR HOSPITALS
Committed to partnering with healthcare providers in anaesthesiology, critical care, urology, surgical and cardiac care applications, we aim to offer the optimum solution for any requirement.

SUPPORT FOR PATIENTS
Teleflex is dedicated to providing products and services that save lives, reduce costs and deliver superior patient outcomes by
reducing infections, enabling less invasive procedures and improving patient safety and comfort.

SUPPORT FOR CLINICIANS
As your partner in healthcare, we provide high quality services, products and programmes. From custom-configured kits to product evaluation.

Website: www.teleflex.com
Customer Services E-mail: orders.uk@teleflex.com
Teleflex
St Mary’s Court
The Broadway
Old Amersham
Buckinghamshire
HP7 0UT

TISSUEMED
STAND 13

Tissuemed is a leading manufacturer of synthetic surgical sealants within the medical device industry. Tissuemed Ltd specializes in developing and marketing synthetic, absorbable surgical sealant films using its proprietary TissueBond™ bioadhesive polymer. Tissuemed manufactures TissuePatch™, a sterile, synthetic, single-use, self-adhesive, absorbable surgical sealant and barrier used to reinforce and seal closures against air leaks in Thoracic surgery (open or VATS) and against leakage of low-pressure bleeding or fluid following surgical procedures on soft tissue. TissuePatch™ films are an alternative to liquid sealants and follow the principle that clinicians want zero prep, easy to apply, functionally and economically effective methods of sealing conventional wound closures.

VASCUTEK
STAND E

Significant advances in arch and thoracic aorta repair are rare, however Thoraflex™ Hybrid the Word’s First multi-branched “Frozen Elephant Trunk” device, is an exception. Thoraflex™ Hybrid is indicated for repair of aneurysm and/or dissection of the ascending thoracic aorta, arch and descending thoracic aorta.

The device consists of a gelatin sealed woven proximal Gelweave 4 branched Plexus graft pre-sewn to a thin wall woven sealed distal stent graft. The latter are of a multiple independent ring stent design allowing excellent anatomical conformability. The device is provided compacted within a short and malleable delivery system that is designed to enable fast and accurate deployment.

The multi-branch aortic arch Plexus graft is designed for fast arch vessel reconstruction and arterial cannulation, providing the potential for reduced ischaemia times.

The distal “Siena” collar simplifies the anastomosis to the distal aorta. Additional radiopaque markers aid in vivo visualisation. Differential graft to stent diameters cater for variable proximal
and distal aortic anatomies; an important consideration for such procedures. Please visit Vascutek's booth (Stand E) where BioValsalva™, aspire™, elan™, OnX and RVOT valves as well as our full range of Gelweave™ cardiothoracic grafts will be on display.

VASCUTEK, a TERUMO Company
Newmains Avenue, Inchinnan Renfrewshire PA4 9RR, Scotland, UK
Tel: +44 (0) 141 812 5555
Fax: +44 (0) 141 812 7170

WISEPRESS ONLINE BOOKSHOP LTD

OUTSIDE CROMDALE HALL 46 & 47

Wisepress Medical Bookshop
25 High Path
Merton Abbey
London
SW19 2JL
UK
Phone: +44 20 8715 1812
Fax: +44 20 8715 1722
bookshop@wisepress.com
www.wisepress.com

Wisepress are Europe's principal conference bookseller. We exhibit the leading books, sample journals and digital content relevant to this meeting. Books may be purchased at the booth, and we offer a postal service. Visit our online bookshop for special offers and follow us on Twitter for the latest news @WisepressBooks.
Author Index
<table>
<thead>
<tr>
<th>Author</th>
<th>Pages</th>
<th>Author</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abah U.</td>
<td>229, 393, p5</td>
<td>Athanasiou T.</td>
<td>246</td>
</tr>
<tr>
<td>Abdelaziz M.</td>
<td>p69</td>
<td>Atkins J.</td>
<td>386</td>
</tr>
<tr>
<td>Abdulkareem N.</td>
<td>271</td>
<td>Atluri P.</td>
<td>222</td>
</tr>
<tr>
<td>Abidoye A.</td>
<td>194, 197, p21</td>
<td>Attaran S.</td>
<td>358, p49, p50</td>
</tr>
<tr>
<td>Abu-Omar Y.</td>
<td>174, 315, 316, 426, 431, p5</td>
<td>Attia R.</td>
<td>243, 255, 296, 305,</td>
</tr>
<tr>
<td>Abu-Stait A.</td>
<td>p32</td>
<td>Austin C.B.</td>
<td>380</td>
</tr>
<tr>
<td>Acar C.</td>
<td>59</td>
<td>Auzinger G.</td>
<td>162</td>
</tr>
<tr>
<td>Acharya M.</td>
<td>389, p47, p62</td>
<td>Avitabile D.</td>
<td>p24</td>
</tr>
<tr>
<td>Acharya M.N.</td>
<td>246</td>
<td>Avlonitis V.S.</td>
<td>196</td>
</tr>
<tr>
<td>Acker M.A.</td>
<td>222</td>
<td>Ayoubi K.</td>
<td>235, 374, 385</td>
</tr>
<tr>
<td>Adam D.</td>
<td>303, 308, 309, p35</td>
<td>Azar H.</td>
<td>464</td>
</tr>
<tr>
<td>Adams B.</td>
<td>395, p4</td>
<td>Badoni G.</td>
<td>258</td>
</tr>
<tr>
<td>Addae-Boateng E.</td>
<td>p65, p66</td>
<td>Baghaim M.</td>
<td>273</td>
</tr>
<tr>
<td>Addis B.</td>
<td>408, p61</td>
<td>Bahrami T.</td>
<td>201, 321, 322</td>
</tr>
<tr>
<td>Agostini P.</td>
<td>342, 344</td>
<td>Bahrami T.T.</td>
<td>266</td>
</tr>
<tr>
<td>Ahmed I.</td>
<td>140</td>
<td>Baig K.A.</td>
<td>165</td>
</tr>
<tr>
<td>Akowuah E.</td>
<td>178, 180, 276, p17, p29</td>
<td>Balakrishnan M.</td>
<td>310</td>
</tr>
<tr>
<td>Aktuerk D.</td>
<td>p39</td>
<td>Baldwin D.</td>
<td>433, 442</td>
</tr>
<tr>
<td>Al Sahaf M.</td>
<td>266</td>
<td>Balisteri C.R.</td>
<td>272, 306, p14, p54</td>
</tr>
<tr>
<td>Al Saudi R.</td>
<td>463</td>
<td>Balmforth D.C.</td>
<td>260</td>
</tr>
<tr>
<td>Al-Rawi O.</td>
<td>221, 249</td>
<td>Banner N.</td>
<td>322</td>
</tr>
<tr>
<td>Al-Sahaf M.</td>
<td>337</td>
<td>Bannister C.</td>
<td>223, 241, 224</td>
</tr>
<tr>
<td>Alassar A.</td>
<td>256</td>
<td>Bapat V.</td>
<td>243, 255, 296</td>
</tr>
<tr>
<td>Alattar N.</td>
<td>p9, p10</td>
<td>Barbanti M.</td>
<td>258</td>
</tr>
<tr>
<td>Albanese A.</td>
<td>p52</td>
<td>Barnard J.B.</td>
<td>280</td>
</tr>
<tr>
<td>Aldwinckle J.</td>
<td>166</td>
<td>Barnard S.</td>
<td>213</td>
</tr>
<tr>
<td>Alishi A.Y.</td>
<td>p55</td>
<td>Barrett N.</td>
<td>317</td>
</tr>
<tr>
<td>Alham A.</td>
<td>406</td>
<td>Barrick T.</td>
<td>256</td>
</tr>
<tr>
<td>Alston P.R.</td>
<td>230</td>
<td>Barron D.J.</td>
<td>382</td>
</tr>
<tr>
<td>Alzetani A.</td>
<td>343, 450</td>
<td>Barua A.</td>
<td>232</td>
</tr>
<tr>
<td>Amer K.</td>
<td>404, 407, 408, 427, p61</td>
<td>Batchelor T.</td>
<td>388, 446, 464</td>
</tr>
<tr>
<td>Amour J.</td>
<td>326</td>
<td>Bavaria J.E.</td>
<td>279</td>
</tr>
<tr>
<td>Amrani M.</td>
<td>175, 177, 263, 321, 322</td>
<td>Bazerbashi S.</td>
<td>311</td>
</tr>
<tr>
<td>Attaran S.</td>
<td>358, p49, p50</td>
<td>Beattie R.</td>
<td>448</td>
</tr>
<tr>
<td>Atkins J.</td>
<td>201, 321, 322</td>
<td>Bedard P.</td>
<td>409</td>
</tr>
<tr>
<td>Anamathasayanam A.</td>
<td>233</td>
<td>Beddow E.</td>
<td>386</td>
</tr>
<tr>
<td>Anderson D.</td>
<td>p9, p10, p57</td>
<td>Belcher E.</td>
<td>347, 387, 396, 456</td>
</tr>
<tr>
<td>Anderson D.R.</td>
<td>380</td>
<td>Bernistein G.</td>
<td>337</td>
</tr>
<tr>
<td>Anderson J.R.</td>
<td>165, p33</td>
<td>Bell L.</td>
<td>348</td>
</tr>
<tr>
<td>Ang K.L.</td>
<td>445, p21</td>
<td>Bellsham-Revell H</td>
<td>380</td>
</tr>
<tr>
<td>Angelini G.D.</td>
<td>165, 370, 373, 383, p33</td>
<td>Benedetto U.</td>
<td>175, 177, 263, 266,</td>
</tr>
<tr>
<td>Anikin V.</td>
<td>386, p18</td>
<td>Bernistein M.</td>
<td>432</td>
</tr>
<tr>
<td>Anselmi A.</td>
<td>324, 325</td>
<td>Besik J.</td>
<td>323</td>
</tr>
<tr>
<td>Ariyaratnam P.</td>
<td>233, p1, p55</td>
<td>Besser M.</td>
<td>159</td>
</tr>
<tr>
<td>Asante-Siaw J.</td>
<td>345, 390, p58</td>
<td>Bhabra M.</td>
<td>131, 132, 195, 231, p44</td>
</tr>
<tr>
<td>Asimakopoulos G.</td>
<td>250, p37</td>
<td>Bhatra M.</td>
<td>131, 132, 195, 231, p44</td>
</tr>
<tr>
<td>Asopa S.</td>
<td>253</td>
<td>Bellsham-Revell H</td>
<td>380</td>
</tr>
<tr>
<td>Author</td>
<td>Page Numbers</td>
<td>Page Numbers</td>
<td></td>
</tr>
<tr>
<td>-----------------</td>
<td>---------------------------------------------------</td>
<td>---------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>Bhagai M.</td>
<td>474</td>
<td>Chalmers R.</td>
<td></td>
</tr>
<tr>
<td>Bhudia S.</td>
<td>167</td>
<td>Chandrasekaran V.</td>
<td></td>
</tr>
<tr>
<td>Bibiloni Lage L.</td>
<td>178, 180, 276, p17, p29</td>
<td>248, p23</td>
<td></td>
</tr>
<tr>
<td>Biddulph J.</td>
<td>233</td>
<td>p27</td>
<td></td>
</tr>
<tr>
<td>Bille A.</td>
<td>p56</td>
<td>Chaubey S.</td>
<td></td>
</tr>
<tr>
<td>Birla R.</td>
<td>247</td>
<td>162, 273</td>
<td></td>
</tr>
<tr>
<td>Birnie K.</td>
<td>231</td>
<td>Chaudhry M.</td>
<td></td>
</tr>
<tr>
<td>Bishay E.</td>
<td>342, 344, p63, p69</td>
<td>232, p1, p30, p47</td>
<td></td>
</tr>
<tr>
<td>Bishop P.W.</td>
<td>265</td>
<td>Chavan H.</td>
<td></td>
</tr>
<tr>
<td>Bisleri G.</td>
<td>28</td>
<td>Chawla A.</td>
<td></td>
</tr>
<tr>
<td>Black E.</td>
<td>347, 387, 396, 456</td>
<td>313</td>
<td></td>
</tr>
<tr>
<td>Blauth C.</td>
<td>296</td>
<td>Chirruli M.</td>
<td></td>
</tr>
<tr>
<td>Bleetman D.</td>
<td>173</td>
<td>311</td>
<td></td>
</tr>
<tr>
<td>Bonser R.</td>
<td>303, 309, p35</td>
<td>Chis Ster I.</td>
<td></td>
</tr>
<tr>
<td>Booth K.</td>
<td>p19</td>
<td>256</td>
<td></td>
</tr>
<tr>
<td>Booton R.</td>
<td>413</td>
<td>Christensen T.D.</td>
<td></td>
</tr>
<tr>
<td>Botnar R.</td>
<td>307</td>
<td>400</td>
<td></td>
</tr>
<tr>
<td>Bottle E.</td>
<td>446</td>
<td>Chua T.P.</td>
<td></td>
</tr>
<tr>
<td>Boulemden A.</td>
<td>445</td>
<td>248</td>
<td></td>
</tr>
<tr>
<td>Bowles C.</td>
<td>322</td>
<td>Claridge M.</td>
<td></td>
</tr>
<tr>
<td>Bracken-Clarke D.</td>
<td>251</td>
<td>303, 308, 309, p35</td>
<td></td>
</tr>
<tr>
<td>Brawn W.J.</td>
<td>365, 382</td>
<td>Clark A.</td>
<td></td>
</tr>
<tr>
<td>Brecker S.</td>
<td>256</td>
<td>360</td>
<td></td>
</tr>
<tr>
<td>Bridgewater B.</td>
<td>131, 280, 281</td>
<td>Clark S.</td>
<td></td>
</tr>
<tr>
<td>Briffa N.</td>
<td>202, p13</td>
<td>244, 335, 432</td>
<td></td>
</tr>
<tr>
<td>Britchford K.</td>
<td>197</td>
<td>Clark T.</td>
<td></td>
</tr>
<tr>
<td>Broughton J.D.</td>
<td>349, 360</td>
<td>250</td>
<td></td>
</tr>
<tr>
<td>Brunelli A.</td>
<td>105</td>
<td>Clarke J.</td>
<td></td>
</tr>
<tr>
<td>Buchanan C.</td>
<td>361</td>
<td>274</td>
<td></td>
</tr>
<tr>
<td>Budra M.</td>
<td>381</td>
<td>Clough R.</td>
<td></td>
</tr>
<tr>
<td>Bullock N.</td>
<td>p36</td>
<td>13</td>
<td></td>
</tr>
<tr>
<td>Burdett C.</td>
<td>178, 180, 276, p15, p17, p29</td>
<td>Cogswell L.</td>
<td></td>
</tr>
<tr>
<td>Burnside N.</td>
<td>448</td>
<td>145</td>
<td></td>
</tr>
<tr>
<td>Butcher L.</td>
<td>361</td>
<td>Colah S.</td>
<td></td>
</tr>
<tr>
<td>Cale A.R.</td>
<td>232, p1</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Canavan C.</td>
<td>374</td>
<td>Collins F.</td>
<td></td>
</tr>
<tr>
<td>Capoun R.</td>
<td>388</td>
<td>69</td>
<td></td>
</tr>
<tr>
<td>Caputo M.</td>
<td>245, 247, 369, 370, 372, 373, 383</td>
<td>Collins R.</td>
<td></td>
</tr>
<tr>
<td>Cardigan R.</td>
<td>194, 197</td>
<td>443</td>
<td></td>
</tr>
<tr>
<td>Carnassale G.</td>
<td>314</td>
<td>Collinson P.</td>
<td></td>
</tr>
<tr>
<td>Carroll A.</td>
<td>381</td>
<td>232</td>
<td></td>
</tr>
<tr>
<td>Carton E.</td>
<td>235</td>
<td>Coltart C.</td>
<td></td>
</tr>
<tr>
<td>Casali G.</td>
<td>102, 388, 446, 464</td>
<td>56</td>
<td></td>
</tr>
<tr>
<td>Castella M.</td>
<td>31</td>
<td>Cook J.M.</td>
<td></td>
</tr>
<tr>
<td>Casula R.P.</td>
<td>240, 246</td>
<td>339</td>
<td></td>
</tr>
<tr>
<td>Catarino P.</td>
<td>229, 315, 316</td>
<td>Cooper G.</td>
<td></td>
</tr>
<tr>
<td>Chabanne C.</td>
<td>325</td>
<td>292</td>
<td></td>
</tr>
<tr>
<td>Chacko J.</td>
<td>p38</td>
<td>Cosgriff R.</td>
<td></td>
</tr>
<tr>
<td>Chalil S.</td>
<td>169</td>
<td>281</td>
<td></td>
</tr>
<tr>
<td>Chavan H.</td>
<td></td>
<td>Cotterill J.</td>
<td></td>
</tr>
<tr>
<td>Chawla A.</td>
<td></td>
<td>337</td>
<td></td>
</tr>
<tr>
<td>Chee Y.R.</td>
<td></td>
<td>Covello R.D.</td>
<td></td>
</tr>
<tr>
<td>Chirruli M.</td>
<td></td>
<td>258</td>
<td></td>
</tr>
<tr>
<td>Chis Ster I.</td>
<td></td>
<td>Cowan C.</td>
<td></td>
</tr>
<tr>
<td>Christensen T.D.</td>
<td></td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>Chua T.P.</td>
<td></td>
<td>Cowell G.</td>
<td></td>
</tr>
<tr>
<td>Claridge M.</td>
<td></td>
<td>386</td>
<td></td>
</tr>
<tr>
<td>Clough R.</td>
<td></td>
<td>Cowen M.E.</td>
<td></td>
</tr>
<tr>
<td>Colah S.</td>
<td></td>
<td>232, p1, p55</td>
<td></td>
</tr>
<tr>
<td>Collins F.</td>
<td></td>
<td>Cox J.</td>
<td></td>
</tr>
<tr>
<td>Collins R.</td>
<td></td>
<td>17, 33</td>
<td></td>
</tr>
<tr>
<td>Collinson P.</td>
<td></td>
<td>Critchley W.R.</td>
<td></td>
</tr>
<tr>
<td>Coltart C.</td>
<td></td>
<td>265</td>
<td></td>
</tr>
<tr>
<td>D’Errigo P.</td>
<td></td>
<td>CTRC.</td>
<td></td>
</tr>
<tr>
<td>Daddar A.</td>
<td></td>
<td>p15</td>
<td></td>
</tr>
<tr>
<td>Daley S.</td>
<td></td>
<td>D’Errigo P.</td>
<td></td>
</tr>
<tr>
<td>Dalrymple-Hay M.</td>
<td></td>
<td>258</td>
<td></td>
</tr>
<tr>
<td>Danton M.</td>
<td></td>
<td>Daddar A.</td>
<td></td>
</tr>
<tr>
<td>Dapunt O.</td>
<td></td>
<td>386</td>
<td></td>
</tr>
<tr>
<td>Dark J.</td>
<td></td>
<td>Daley S.</td>
<td></td>
</tr>
<tr>
<td>Dartevelle P.</td>
<td></td>
<td>175</td>
<td></td>
</tr>
<tr>
<td>Datta S.</td>
<td></td>
<td>Dalrymple-Hay M</td>
<td></td>
</tr>
<tr>
<td>Davies S.</td>
<td></td>
<td>19, 133, 253</td>
<td></td>
</tr>
<tr>
<td>Dawson A.G.</td>
<td></td>
<td>Danton M.</td>
<td></td>
</tr>
<tr>
<td>De Giovanni J.</td>
<td></td>
<td>384</td>
<td></td>
</tr>
<tr>
<td>De Perrot M.</td>
<td></td>
<td>Dark J.</td>
<td></td>
</tr>
<tr>
<td>De Robertis F.</td>
<td></td>
<td>77</td>
<td></td>
</tr>
<tr>
<td>De Silva T.</td>
<td></td>
<td>Dartevelle P.</td>
<td></td>
</tr>
<tr>
<td>De Souza A.C.</td>
<td></td>
<td>96</td>
<td></td>
</tr>
<tr>
<td>Delaere P.</td>
<td></td>
<td>Datta S.</td>
<td></td>
</tr>
<tr>
<td>Dellgren G.</td>
<td></td>
<td>362, p32</td>
<td></td>
</tr>
<tr>
<td>Denning D.</td>
<td></td>
<td>Davies S.</td>
<td></td>
</tr>
<tr>
<td>Derobertis F.</td>
<td></td>
<td>p46</td>
<td></td>
</tr>
<tr>
<td>Desai J.</td>
<td></td>
<td>Dawson A.G.</td>
<td></td>
</tr>
<tr>
<td>Chambon</td>
<td></td>
<td>405, 462</td>
<td></td>
</tr>
<tr>
<td>Chandrasekaran V.</td>
<td></td>
<td>De Giovanni J.</td>
<td></td>
</tr>
<tr>
<td>Chau S.</td>
<td></td>
<td>366</td>
<td></td>
</tr>
<tr>
<td>Chiang W.</td>
<td></td>
<td>De Perrot M.</td>
<td></td>
</tr>
<tr>
<td>Choudhury</td>
<td></td>
<td>409</td>
<td></td>
</tr>
<tr>
<td>Chua T.P.</td>
<td></td>
<td>De Robertis F.</td>
<td></td>
</tr>
<tr>
<td>Chavan H.</td>
<td></td>
<td>143, 177, 263</td>
<td></td>
</tr>
<tr>
<td>Chawla S.</td>
<td></td>
<td>De Silva T.</td>
<td></td>
</tr>
<tr>
<td>Closson</td>
<td></td>
<td>202</td>
<td></td>
</tr>
<tr>
<td>Chavan H.</td>
<td></td>
<td>De Souza A.C.</td>
<td></td>
</tr>
<tr>
<td>Chau S.</td>
<td></td>
<td>358, p49, p50</td>
<td></td>
</tr>
<tr>
<td>Chavan H.</td>
<td></td>
<td>Delaere P.</td>
<td></td>
</tr>
<tr>
<td>Chawla S.</td>
<td></td>
<td>107</td>
<td></td>
</tr>
<tr>
<td>Chavan H.</td>
<td></td>
<td>Dellgren G.</td>
<td></td>
</tr>
<tr>
<td>Chawla S.</td>
<td></td>
<td>318</td>
<td></td>
</tr>
<tr>
<td>Chavan H.</td>
<td></td>
<td>Denning D.</td>
<td></td>
</tr>
<tr>
<td>Chawla S.</td>
<td></td>
<td>124</td>
<td></td>
</tr>
<tr>
<td>Chavan H.</td>
<td></td>
<td>Derobertis F.</td>
<td></td>
</tr>
<tr>
<td>Chawla S.</td>
<td></td>
<td>321, 322, p18</td>
<td></td>
</tr>
<tr>
<td>Chavan H.</td>
<td></td>
<td>Desai J.</td>
<td></td>
</tr>
<tr>
<td>Chawla S.</td>
<td></td>
<td>162, 217,</td>
<td></td>
</tr>
<tr>
<td>Author</td>
<td>Pages</td>
<td>Authors</td>
<td>Pages</td>
</tr>
<tr>
<td>-----------------</td>
<td>-------------</td>
<td>--------------------</td>
<td>-------------</td>
</tr>
<tr>
<td>Desai N.D.</td>
<td>260, 273</td>
<td>Field M.</td>
<td>304, p40,</td>
</tr>
<tr>
<td>Deshpande R.</td>
<td>279</td>
<td>Field J.E.</td>
<td>265</td>
</tr>
<tr>
<td>Desmond M.</td>
<td>273, 296,</td>
<td>Finch J.</td>
<td>337, 386,</td>
</tr>
<tr>
<td></td>
<td>p48</td>
<td></td>
<td>p18</td>
</tr>
<tr>
<td>Desriac V.</td>
<td>324, 325</td>
<td>Fiorentino F.</td>
<td>165, p33</td>
</tr>
<tr>
<td>Deval M.</td>
<td>295, 336,</td>
<td>Fiorentino F.</td>
<td>372</td>
</tr>
<tr>
<td></td>
<td>p40, p43</td>
<td>Fisher A.</td>
<td>319</td>
</tr>
<tr>
<td>Didangelo A.</td>
<td>271</td>
<td>Fiorentino G.J.</td>
<td>228</td>
</tr>
<tr>
<td>Djordjevic J.</td>
<td>395</td>
<td>Fischlein T.</td>
<td>179</td>
</tr>
<tr>
<td>Doherty D.T.</td>
<td>372, 383</td>
<td>Fischlein T.</td>
<td>251</td>
</tr>
<tr>
<td>Doran H.</td>
<td>317</td>
<td>Flench E.</td>
<td>324, 325</td>
</tr>
<tr>
<td>Dorobantu D.M.</td>
<td>303, 309,</td>
<td>Fok M.</td>
<td>304, p42,</td>
</tr>
<tr>
<td></td>
<td>p35</td>
<td></td>
<td>p43, p46,</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>p51</td>
</tr>
<tr>
<td>Drozdov I.</td>
<td>403, p65,</td>
<td>Forty J.</td>
<td>432</td>
</tr>
<tr>
<td>Drury N.E.</td>
<td>401, 451,</td>
<td>Fox J.</td>
<td>222</td>
</tr>
<tr>
<td>Dubecz A.</td>
<td>455, p3</td>
<td>Franks K.</td>
<td>414</td>
</tr>
<tr>
<td>Duffy J.</td>
<td>403, p65,</td>
<td>Freemantle N.</td>
<td>167</td>
</tr>
<tr>
<td></td>
<td>p66</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Duncan A.</td>
<td>163, p31</td>
<td>Gabb A.A.</td>
<td>222</td>
</tr>
<tr>
<td>Dunne J.</td>
<td>23, 178, 283,</td>
<td>Gall S.</td>
<td>169</td>
</tr>
<tr>
<td>Dunne M.</td>
<td>315, 316,</td>
<td>Gamberdella I.</td>
<td>448</td>
</tr>
<tr>
<td></td>
<td>349, 350,</td>
<td>Garcia Saez D.</td>
<td>322</td>
</tr>
<tr>
<td>Dunnett E.</td>
<td>351, p15,</td>
<td>Gardiner S.</td>
<td>337</td>
</tr>
<tr>
<td></td>
<td>p17</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dunning J.</td>
<td>313, 386,</td>
<td>Ghosal R.</td>
<td>452</td>
</tr>
<tr>
<td></td>
<td>459, p68</td>
<td>Gifford D.</td>
<td>12</td>
</tr>
<tr>
<td>Dusmet M.</td>
<td>327</td>
<td>Gilhooly M.</td>
<td>12</td>
</tr>
<tr>
<td>Dyer C.</td>
<td>199</td>
<td>Giordano V.</td>
<td>249</td>
</tr>
<tr>
<td>Eaton D.</td>
<td>252</td>
<td>Geraldo Ospina C.F.</td>
<td>451</td>
</tr>
<tr>
<td>Eckhardt S.</td>
<td>256, p45</td>
<td>Gleeson F.</td>
<td>396</td>
</tr>
<tr>
<td>Eckstein F.S.</td>
<td>349</td>
<td>Glover G.</td>
<td>317</td>
</tr>
<tr>
<td>Edsell M.</td>
<td>350</td>
<td>Goddard M.</td>
<td>174</td>
</tr>
<tr>
<td>Edwards J.</td>
<td>372</td>
<td>Goldstone A.B.</td>
<td>222</td>
</tr>
<tr>
<td>Efthymiou C.A.</td>
<td>451</td>
<td>Goodwin A.</td>
<td>178, 180,</td>
</tr>
<tr>
<td>Egan J.J.</td>
<td>381</td>
<td>Gordon A.</td>
<td>16</td>
</tr>
<tr>
<td>El Dean Z.</td>
<td>372</td>
<td>Gosain B.</td>
<td>21</td>
</tr>
<tr>
<td>El-Nady H.</td>
<td>350</td>
<td>Goudie R.</td>
<td>195</td>
</tr>
<tr>
<td>El-Saegh M.</td>
<td>242</td>
<td>Gough A.</td>
<td>257</td>
</tr>
<tr>
<td>Elassal A.A.</td>
<td>429</td>
<td>Gough K.</td>
<td>364</td>
</tr>
<tr>
<td>Eleftheriades J.</td>
<td>5, 8</td>
<td>Gowland P.</td>
<td>362</td>
</tr>
<tr>
<td>Elsaegh M.</td>
<td>289</td>
<td>Graham A.</td>
<td>463, p21</td>
</tr>
<tr>
<td>Elsheikh M.</td>
<td>165, p33</td>
<td>Graham T.</td>
<td>167</td>
</tr>
<tr>
<td>Evans P.C.</td>
<td>337, p24</td>
<td>Grant S.W.</td>
<td>280, 281,</td>
</tr>
<tr>
<td>Evans T.</td>
<td>174, 315,</td>
<td>Grant S.W.</td>
<td>280, 281,</td>
</tr>
<tr>
<td>Falconieri F.</td>
<td>316, p12</td>
<td>Grant S.W.</td>
<td>304, p59</td>
</tr>
<tr>
<td>Farid S.</td>
<td>252</td>
<td>Green A.</td>
<td>68</td>
</tr>
<tr>
<td>Ferguson J.</td>
<td>228</td>
<td>Green D.</td>
<td>167</td>
</tr>
<tr>
<td></td>
<td>178, p17</td>
<td>Greening N.</td>
<td>312</td>
</tr>
<tr>
<td>Name</td>
<td>Page Numbers</td>
<td>Name</td>
<td>Page Numbers</td>
</tr>
<tr>
<td>---------------------</td>
<td>--------------</td>
<td>---------------------</td>
<td>--------------</td>
</tr>
<tr>
<td>Kaushal R.P.</td>
<td>268</td>
<td>Leprince P.</td>
<td>326</td>
</tr>
<tr>
<td>Keenan D.</td>
<td>290</td>
<td>Lester J.</td>
<td>438</td>
</tr>
<tr>
<td>Kendall S.</td>
<td>57, 178, 281,360, p17</td>
<td>Lewis M.</td>
<td>167, 219</td>
</tr>
<tr>
<td>Kerr A.</td>
<td>394</td>
<td>Lim E.</td>
<td>313, 386,</td>
</tr>
<tr>
<td>Kettel D.</td>
<td>343</td>
<td>Lin H.</td>
<td>395, 442, p68</td>
</tr>
<tr>
<td>Khalil H.</td>
<td>92</td>
<td>Lind M.J.</td>
<td>442</td>
</tr>
<tr>
<td>Khalil M.W.</td>
<td>389, p62</td>
<td>Livesey S.</td>
<td>210, 223,</td>
</tr>
<tr>
<td>Khan A.Z.</td>
<td>408</td>
<td>Lloyd C.</td>
<td>133, 253, 454</td>
</tr>
<tr>
<td>Khan A.Z.</td>
<td>404, 407, p61</td>
<td>Locke T.</td>
<td>202</td>
</tr>
<tr>
<td>Khan H.</td>
<td>162, 273, 450</td>
<td>Lopez-Maro A.</td>
<td>p25, p26</td>
</tr>
<tr>
<td>Khan M.A.</td>
<td>163</td>
<td>Loubani M.</td>
<td>232, 233,</td>
</tr>
<tr>
<td>Khan N.E.</td>
<td>382</td>
<td></td>
<td>261, 389, p1,</td>
</tr>
<tr>
<td>Khatri M.</td>
<td>464</td>
<td></td>
<td>p30, p47,</td>
</tr>
<tr>
<td>Khorsandi M.</td>
<td>398</td>
<td></td>
<td>p55, p62</td>
</tr>
<tr>
<td>Kimberley P.</td>
<td>386, p49, p50</td>
<td></td>
<td>221, 249,</td>
</tr>
<tr>
<td>King J.</td>
<td>461</td>
<td></td>
<td>390, p58</td>
</tr>
<tr>
<td>King J.E.</td>
<td>317, p56</td>
<td>Luckraz H.</td>
<td>237, 333, p44</td>
</tr>
<tr>
<td>Kirk A.J., B.</td>
<td>392, p57</td>
<td>Lüchtenborg M.</td>
<td>442</td>
</tr>
<tr>
<td>Kirsch M.</td>
<td>326</td>
<td>Machiwenyika J.M.</td>
<td>334</td>
</tr>
<tr>
<td>Kolh P.</td>
<td>39, 45, 48, 61, 62</td>
<td>Majewski A.</td>
<td>p65</td>
</tr>
<tr>
<td>Konstantinidis K.</td>
<td>p41</td>
<td>Malone S.</td>
<td>361</td>
</tr>
<tr>
<td>Konstantinidou M.</td>
<td>263</td>
<td>Mani A.</td>
<td>313, 395</td>
</tr>
<tr>
<td>Kornaszewska M.</td>
<td>452, 453</td>
<td>Manoly I.</td>
<td>p32</td>
</tr>
<tr>
<td>Kotidis K.</td>
<td>261, 389, p47, p62</td>
<td>Marchbank A.</td>
<td>234, p60</td>
</tr>
<tr>
<td>Kourliouros A.</td>
<td>p48</td>
<td>Marinceu D.</td>
<td>261</td>
</tr>
<tr>
<td>Krasemann T.</td>
<td>380</td>
<td>Mariscal A.</td>
<td>409</td>
</tr>
<tr>
<td>Krishnadas R.</td>
<td>388</td>
<td>Markus H.</td>
<td>256</td>
</tr>
<tr>
<td>Krishnamoorthy B.</td>
<td>265</td>
<td>Mascaro J.</td>
<td>167, 303,</td>
</tr>
<tr>
<td>Krysiak P.</td>
<td>461, p59</td>
<td>Mathew R.</td>
<td>308, 309, p35</td>
</tr>
<tr>
<td>Kuduvalli M.</td>
<td>304, 336, p40, p42, p43, p46, p51</td>
<td>Massard G.</td>
<td>118, 121</td>
</tr>
<tr>
<td>Kumar A.</td>
<td>268</td>
<td>Massey K.</td>
<td>342, 344</td>
</tr>
<tr>
<td>Kumari N.</td>
<td>363</td>
<td>Mathew R.</td>
<td>229</td>
</tr>
<tr>
<td>Kuo J.</td>
<td>311</td>
<td>Matingal J.</td>
<td>449</td>
</tr>
<tr>
<td>Kutty R.S.</td>
<td>p5</td>
<td>Mattam K.</td>
<td>67</td>
</tr>
<tr>
<td>Kyparissopoulos D.</td>
<td>386</td>
<td>Maunz O.</td>
<td>322</td>
</tr>
<tr>
<td>La Meir M.</td>
<td>30</td>
<td>Mayr M.</td>
<td>228, 271</td>
</tr>
<tr>
<td>Ladas G.</td>
<td>313, 386, p68</td>
<td>McCafferty I.</td>
<td>303, 309, p35</td>
</tr>
<tr>
<td>Lall K.</td>
<td>p38</td>
<td>McCarthy F.H.</td>
<td>279</td>
</tr>
<tr>
<td>Lang-Lazdunski L.</td>
<td>317, 442, p56</td>
<td>McCarthy J.</td>
<td>164</td>
</tr>
<tr>
<td>Langrish C.</td>
<td>317</td>
<td>McCormick S.</td>
<td>p4</td>
</tr>
<tr>
<td>Large S.R.</td>
<td>310</td>
<td>McCormack D.</td>
<td>p38</td>
</tr>
<tr>
<td>Larsen T.B.</td>
<td>400</td>
<td>McGann G.</td>
<td>429</td>
</tr>
<tr>
<td>Laufer G.</td>
<td>37, 43</td>
<td>McGonigle N.</td>
<td>386</td>
</tr>
<tr>
<td>Lawrensen M.J.</td>
<td>381</td>
<td>McGuigan J.</td>
<td>447</td>
</tr>
<tr>
<td>Law S.</td>
<td>173</td>
<td>McGuinness J.</td>
<td>371, 374, 385</td>
</tr>
<tr>
<td>Lawless R.</td>
<td>449</td>
<td>McKenna A.</td>
<td>p28</td>
</tr>
<tr>
<td>Lawrence T.</td>
<td>398</td>
<td>McManus K.</td>
<td>397, 399,</td>
</tr>
<tr>
<td>Le Bouquin V.</td>
<td>324</td>
<td></td>
<td>425, 430,</td>
</tr>
<tr>
<td>Lee C.</td>
<td>305</td>
<td></td>
<td>448, 463, p70</td>
</tr>
<tr>
<td>Leger P.</td>
<td>326</td>
<td>Mediratta N.</td>
<td>345, 390, p58</td>
</tr>
<tr>
<td>Leguerrier A.</td>
<td>324, 325</td>
<td>Mehta D.</td>
<td>p36</td>
</tr>
<tr>
<td>Lelong B.</td>
<td>325</td>
<td>Mellemgaard A.</td>
<td>442</td>
</tr>
<tr>
<td>Name</td>
<td>Pages</td>
<td>Name</td>
<td>Pages</td>
</tr>
<tr>
<td>----------------------</td>
<td>-------</td>
<td>------------------------</td>
<td>---------------</td>
</tr>
<tr>
<td>Menon A.</td>
<td>461</td>
<td>Nenekidis I.</td>
<td>p41</td>
</tr>
<tr>
<td>Merlo D.</td>
<td>272, 306, p14, p54</td>
<td>Netuka I.</td>
<td>323</td>
</tr>
<tr>
<td>Mesa-Guzman M.</td>
<td>395</td>
<td>Ngaage D.</td>
<td>161, 173,</td>
</tr>
<tr>
<td>Mhandu P.</td>
<td>463</td>
<td>Nguyen B.</td>
<td>165, p33</td>
</tr>
<tr>
<td>Miceli A.</td>
<td>373</td>
<td>Ni Hici T.</td>
<td>371</td>
</tr>
<tr>
<td>Miles R.</td>
<td>203</td>
<td>Nicholson A.</td>
<td>p68</td>
</tr>
<tr>
<td>Mills J.</td>
<td>348</td>
<td>Nielsen P.</td>
<td>194, p21</td>
</tr>
<tr>
<td>Milton R.</td>
<td>439</td>
<td>Nielson P.</td>
<td>197</td>
</tr>
<tr>
<td>Minhas P.</td>
<td>95</td>
<td>Nikolaidis N.</td>
<td>223, 224, 241</td>
</tr>
<tr>
<td>Mitchell J.</td>
<td>347, 396</td>
<td>Nikou N.</td>
<td>p48</td>
</tr>
<tr>
<td>Mitsos S.</td>
<td>p49</td>
<td>Niwaz Z.</td>
<td>386, 395</td>
</tr>
<tr>
<td>Moat N.</td>
<td>63, 135, 256, 259</td>
<td>Nolke L.</td>
<td>235, 374, 385</td>
</tr>
<tr>
<td>Modarai B.</td>
<td>305, 307</td>
<td>Noorani A.</td>
<td>255</td>
</tr>
<tr>
<td>Modi A.</td>
<td>223, 241</td>
<td>Nowell J.</td>
<td>p27</td>
</tr>
<tr>
<td>Modi P.</td>
<td>141, 221, 249, 424</td>
<td>Nwaejike N.</td>
<td>169</td>
</tr>
<tr>
<td>Mohamed Ahmed E.</td>
<td>234, 311</td>
<td>O'Brien S.</td>
<td>235</td>
</tr>
<tr>
<td>Mohamed S.</td>
<td>p69</td>
<td>O'Sullivan K.E.</td>
<td>168, 251, 257</td>
</tr>
<tr>
<td>Mohite P.N.</td>
<td>321, 322</td>
<td>O'Donnell M.</td>
<td>p28</td>
</tr>
<tr>
<td>Mohiyaddin S.</td>
<td>389, p47, p62</td>
<td>O'Meara Y.</td>
<td>327</td>
</tr>
<tr>
<td>Mohktari A.</td>
<td>373</td>
<td>O'Neill M.</td>
<td>16, 20</td>
</tr>
<tr>
<td>Molyneux M.</td>
<td>100</td>
<td>O'Regan D.J.</td>
<td>199</td>
</tr>
<tr>
<td>Momin A.</td>
<td>242</td>
<td>Obadai J.-F.</td>
<td>136</td>
</tr>
<tr>
<td>Montecalvo A.</td>
<td>p52</td>
<td>Oey I.F.</td>
<td>312, 314</td>
</tr>
<tr>
<td>Moore M.</td>
<td>409</td>
<td>Ofner D.</td>
<td>401, 451,</td>
</tr>
<tr>
<td>Moorjani N.</td>
<td>p12</td>
<td>Ojha S.</td>
<td>395</td>
</tr>
<tr>
<td>Morgan G.J.</td>
<td>380</td>
<td>Okior L.</td>
<td>p56, p63</td>
</tr>
<tr>
<td>Morgan M.</td>
<td>127</td>
<td>Oleofose T.</td>
<td>167</td>
</tr>
<tr>
<td>Morgan M.D.</td>
<td>312, 314</td>
<td>Oliemy A.A.</td>
<td>p53</td>
</tr>
<tr>
<td>Morley K.</td>
<td>335</td>
<td>Ong L.P.</td>
<td>310, p5</td>
</tr>
<tr>
<td>Morris R.</td>
<td>256, 60</td>
<td>Onorati F.</td>
<td>258</td>
</tr>
<tr>
<td>Morrow E.</td>
<td>392</td>
<td>Oo A.</td>
<td>6, 295, 304,</td>
</tr>
<tr>
<td>Moscarelli M.</td>
<td>240</td>
<td></td>
<td>336, p40,</td>
</tr>
<tr>
<td>Mourad F.</td>
<td>163, p31</td>
<td></td>
<td>p42, p43,</td>
</tr>
<tr>
<td>Muhammad M.</td>
<td>406</td>
<td></td>
<td>p46, p51</td>
</tr>
<tr>
<td>Murphy G.</td>
<td>194, 195, 196, 197, 198, 231, p21</td>
<td>Osborne M.S.</td>
<td>454</td>
</tr>
<tr>
<td>Murphy J.</td>
<td>p28</td>
<td>Oswald N.</td>
<td>p63, p69</td>
</tr>
<tr>
<td>Murphy M.O.</td>
<td>380</td>
<td>Owens A.</td>
<td>178, p17</td>
</tr>
<tr>
<td>Murray N.</td>
<td>387</td>
<td>Owston M.S.</td>
<td>349, 360</td>
</tr>
<tr>
<td>Mussa S.</td>
<td>382</td>
<td>Pagano D.</td>
<td>167, 172, 231</td>
</tr>
<tr>
<td>Mydin M.I.</td>
<td>403, p65, p66</td>
<td>Page A.</td>
<td>174</td>
</tr>
<tr>
<td>Moller H.</td>
<td>442</td>
<td>Page R.D.</td>
<td>88, 345, 390,</td>
</tr>
<tr>
<td>Nagarajan K.</td>
<td>p44</td>
<td></td>
<td>442, p58</td>
</tr>
<tr>
<td>Naidu B.</td>
<td>342, 344, 394, 400, p63, p69</td>
<td>Pandey R.</td>
<td>245</td>
</tr>
<tr>
<td>Nakas A.</td>
<td>418, 445</td>
<td>Papalexopoulou N.</td>
<td>264, 305,</td>
</tr>
<tr>
<td>Nashef S.</td>
<td>21, 174</td>
<td>Parissis H.</td>
<td>307</td>
</tr>
<tr>
<td>Nasir A.</td>
<td>220</td>
<td>Papaspyros S.</td>
<td>264, p11</td>
</tr>
<tr>
<td>Nawaytou O.</td>
<td>452, 453</td>
<td>Parissis H.</td>
<td>p19</td>
</tr>
<tr>
<td>Nawaz M.A.</td>
<td>392, p9, p10, p57</td>
<td>Parmar J.</td>
<td>315, 316</td>
</tr>
<tr>
<td>Nazari D.</td>
<td>p67</td>
<td>Parry A.J.</td>
<td>372, 373, 383</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Parsons H.</td>
<td>202</td>
</tr>
<tr>
<td>Author</td>
<td>Pages</td>
<td>Author</td>
<td>Pages</td>
</tr>
<tr>
<td>-----------------</td>
<td>-------</td>
<td>-----------------</td>
<td>-------</td>
</tr>
<tr>
<td>Patel A.</td>
<td>307</td>
<td>Rammohan K.S.</td>
<td>398, 461</td>
</tr>
<tr>
<td>Patel N.N.</td>
<td>194, 196, 197</td>
<td>Ranasinghe A.</td>
<td>167, 303, 308, 309, p35, p41</td>
</tr>
<tr>
<td>Patil N.</td>
<td>322</td>
<td>Ranucci M.</td>
<td>195, 258</td>
</tr>
<tr>
<td>Patronis M.</td>
<td>264</td>
<td>Rao J.</td>
<td>402</td>
</tr>
<tr>
<td>Pattenden H.</td>
<td>395</td>
<td>Rasnayake D.</td>
<td>387</td>
</tr>
<tr>
<td>Paul I.</td>
<td>463</td>
<td>Rathinam S.</td>
<td>101, 312, 314, 444</td>
</tr>
<tr>
<td>Pavie A.</td>
<td>326, 328</td>
<td>Payne R.</td>
<td>166</td>
</tr>
<tr>
<td>Peake M.D.</td>
<td>442</td>
<td>Peake M.D.</td>
<td>442</td>
</tr>
<tr>
<td>Pedersen S.</td>
<td>400</td>
<td>Pedersen S.</td>
<td>400</td>
</tr>
<tr>
<td>Peleki A.</td>
<td>p41</td>
<td>Peleki A.</td>
<td>p41</td>
</tr>
<tr>
<td>Penn S.</td>
<td>321</td>
<td>Penn S.</td>
<td>321</td>
</tr>
<tr>
<td>Pepper J.</td>
<td>54, p24, p49, p50</td>
<td>Pepp J.</td>
<td>54, p24, p49, p50</td>
</tr>
<tr>
<td>Petrou M.</td>
<td>361</td>
<td>Pepp J.</td>
<td>54, p24, p49, p50</td>
</tr>
<tr>
<td>Pfeiffer S.</td>
<td>179</td>
<td>Pepp J.</td>
<td>54, p24, p49, p50</td>
</tr>
<tr>
<td>Phillips S.</td>
<td>p45</td>
<td>Pepp J.</td>
<td>54, p24, p49, p50</td>
</tr>
<tr>
<td>Phinikaridou A.</td>
<td>307</td>
<td>Pijls N.</td>
<td>50</td>
</tr>
<tr>
<td>Pijs N.</td>
<td>50</td>
<td>Pike K.</td>
<td>198</td>
</tr>
<tr>
<td>Pilling J.</td>
<td>317, p56</td>
<td>Pilling J.</td>
<td>317, p56</td>
</tr>
<tr>
<td>Pirk J.</td>
<td>323</td>
<td>Pisano C.</td>
<td>272, 306, p14, p54</td>
</tr>
<tr>
<td>Pisano C.</td>
<td>272, 306, p14, p54</td>
<td>Pitt T.</td>
<td>322</td>
</tr>
<tr>
<td>Pitt T.</td>
<td>322</td>
<td>Podila S.R.R.</td>
<td>p16</td>
</tr>
<tr>
<td>Podil S.R.R.</td>
<td>p16</td>
<td>Polkey M.</td>
<td>313</td>
</tr>
<tr>
<td>Polkey M.</td>
<td>313</td>
<td>Pollari F.</td>
<td>179</td>
</tr>
<tr>
<td>Pollari F.</td>
<td>179</td>
<td>Popat S.</td>
<td>437</td>
</tr>
<tr>
<td>Popat S.</td>
<td>437</td>
<td>Popov A.</td>
<td>322</td>
</tr>
<tr>
<td>Popov A.</td>
<td>322</td>
<td>Poullis M.P.</td>
<td>281, 345, 390, p58</td>
</tr>
<tr>
<td>Poullis M.P.</td>
<td>281, 345, 390, p58</td>
<td>Power S.</td>
<td>359</td>
</tr>
<tr>
<td>Power S.</td>
<td>359</td>
<td>Prabhu N.</td>
<td>384</td>
</tr>
<tr>
<td>Prabhu N.</td>
<td>384</td>
<td>Prasad S.</td>
<td>264, p11</td>
</tr>
<tr>
<td>Prasad S.</td>
<td>264, p11</td>
<td>Pullinger D.</td>
<td>346</td>
</tr>
<tr>
<td>Pullinger D.</td>
<td>346</td>
<td>Punjabi P.</td>
<td>242</td>
</tr>
<tr>
<td>Punjabi P.</td>
<td>242</td>
<td>Qadri S.S.A.</td>
<td>232</td>
</tr>
<tr>
<td>Qadri S.S.A.</td>
<td>232</td>
<td>Quarto C.</td>
<td>p24</td>
</tr>
<tr>
<td>Quarto C.</td>
<td>p24</td>
<td>Quero Valenzuela F.</td>
<td>451</td>
</tr>
<tr>
<td>Quero Valenzuela F.</td>
<td>451</td>
<td>Quessard A.</td>
<td>326</td>
</tr>
<tr>
<td>Quessard A.</td>
<td>326</td>
<td>Quigley J.</td>
<td>338</td>
</tr>
<tr>
<td>Quigley J.</td>
<td>338</td>
<td>Quinn D.</td>
<td>142, 144</td>
</tr>
<tr>
<td>Quinn D.</td>
<td>142, 144</td>
<td>Quinn D.W.</td>
<td>p41</td>
</tr>
<tr>
<td>Quinn D.W.</td>
<td>p41</td>
<td>Qureshi N.</td>
<td>434</td>
</tr>
<tr>
<td>Qureshi N.</td>
<td>434</td>
<td>Qureshi S.A.</td>
<td>380</td>
</tr>
<tr>
<td>Qureshi S.A.</td>
<td>380</td>
<td>Qureshi S.H.</td>
<td>197</td>
</tr>
<tr>
<td>Qureshi S.H.</td>
<td>197</td>
<td>Qureshi Z.N.</td>
<td>230</td>
</tr>
<tr>
<td>Qureshi Z.N.</td>
<td>230</td>
<td>Rahman N.</td>
<td>396</td>
</tr>
<tr>
<td>Rahman N.</td>
<td>396</td>
<td>Raja S.</td>
<td>175, p18</td>
</tr>
<tr>
<td>Raja S.</td>
<td>175, p18</td>
<td>Raja S.G.</td>
<td>177, 201, 263, 266, p52</td>
</tr>
<tr>
<td>Raja S.G.</td>
<td>177, 201, 263, 266, p52</td>
<td>Rajesh P.B.</td>
<td>342, 344, 429</td>
</tr>
<tr>
<td>Rajesh P.B.</td>
<td>342, 344, 429</td>
<td>Rajnish R.</td>
<td>453</td>
</tr>
<tr>
<td>Rajnish R.</td>
<td>453</td>
<td>Ramaesh R.</td>
<td>410, 428, 443</td>
</tr>
<tr>
<td>Ramaesh R.</td>
<td>410, 428, 443</td>
<td>Raman G.</td>
<td>p42</td>
</tr>
<tr>
<td>Raman G.</td>
<td>p42</td>
<td>Ray P.</td>
<td>197</td>
</tr>
<tr>
<td>Ray P.</td>
<td>197</td>
<td>Ray P.</td>
<td>197</td>
</tr>
<tr>
<td>Ray P.</td>
<td>197</td>
<td>Redmond M.</td>
<td>371, 374, 385</td>
</tr>
<tr>
<td>Redmond M.</td>
<td>371, 374, 385</td>
<td>Reeves B.</td>
<td>165, 198, p33</td>
</tr>
<tr>
<td>Reeves B.</td>
<td>165, 198, p33</td>
<td>Reuthebuch O.</td>
<td>252</td>
</tr>
<tr>
<td>Reuthebuch O.</td>
<td>252</td>
<td>Rial S.</td>
<td>442</td>
</tr>
<tr>
<td>Rial S.</td>
<td>442</td>
<td>Rich P.</td>
<td>256</td>
</tr>
<tr>
<td>Rich P.</td>
<td>256</td>
<td>Richards R.</td>
<td>169</td>
</tr>
<tr>
<td>Richards R.</td>
<td>169</td>
<td>Richardson V.</td>
<td>343</td>
</tr>
<tr>
<td>Richardson V.</td>
<td>343</td>
<td>Richens D.</td>
<td>200</td>
</tr>
<tr>
<td>Richens D.</td>
<td>200</td>
<td>Riley P.</td>
<td>303, 309, p35</td>
</tr>
<tr>
<td>Riley P.</td>
<td>303, 309, p35</td>
<td>Rimmer L.</td>
<td>p46</td>
</tr>
<tr>
<td>Rimmer L.</td>
<td>p46</td>
<td>Robb J.D.</td>
<td>222, 279</td>
</tr>
<tr>
<td>Robb J.D.</td>
<td>222, 279</td>
<td>Roberts M.</td>
<td>336</td>
</tr>
<tr>
<td>Roberts M.</td>
<td>336</td>
<td>Robinson R.</td>
<td>p58</td>
</tr>
<tr>
<td>Robinson R.</td>
<td>p58</td>
<td>Rochon M.</td>
<td>201, 266</td>
</tr>
<tr>
<td>Rochon M.</td>
<td>201, 266</td>
<td>Rogers C.</td>
<td>198</td>
</tr>
<tr>
<td>Rogers C.</td>
<td>198</td>
<td>Roman A.</td>
<td>p64</td>
</tr>
<tr>
<td>Roman A.</td>
<td>p64</td>
<td>Roman M.</td>
<td>315, 316</td>
</tr>
<tr>
<td>Roman M.</td>
<td>315, 316</td>
<td>Rooney S.</td>
<td>167, p39</td>
</tr>
<tr>
<td>Rooney S.</td>
<td>167, p39</td>
<td>Rosato S.</td>
<td>258</td>
</tr>
<tr>
<td>Rosato S.</td>
<td>258</td>
<td>Rosenthal E.</td>
<td>380</td>
</tr>
<tr>
<td>Rosenthal E.</td>
<td>380</td>
<td>Roses-Noguer F.</td>
<td>447</td>
</tr>
<tr>
<td>Roses-Noguer F.</td>
<td>447</td>
<td>Rouault P.</td>
<td>324, 325</td>
</tr>
<tr>
<td>Rouault P.</td>
<td>324, 325</td>
<td>Rouhani M.</td>
<td>p34</td>
</tr>
<tr>
<td>Rouhani M.</td>
<td>p34</td>
<td>Routledge T.</td>
<td>317, p56</td>
</tr>
<tr>
<td>Routledge T.</td>
<td>317, p56</td>
<td>Rouze S.</td>
<td>224</td>
</tr>
<tr>
<td>Rouze S.</td>
<td>224</td>
<td>Roy D.</td>
<td>256</td>
</tr>
<tr>
<td>Roy D.</td>
<td>256</td>
<td>Royston D.</td>
<td>158</td>
</tr>
<tr>
<td>Royston D.</td>
<td>158</td>
<td>Rusina Z.</td>
<td>223, 241</td>
</tr>
<tr>
<td>Rusina Z.</td>
<td>223, 241</td>
<td>Ruvolo G.</td>
<td>272, 306, p14, p54</td>
</tr>
<tr>
<td>Ruvolo G.</td>
<td>272, 306, p14, p54</td>
<td>Saleem K.</td>
<td>p44</td>
</tr>
<tr>
<td>Saleem K.</td>
<td>p44</td>
<td>Saed A.</td>
<td>322</td>
</tr>
<tr>
<td>Saed A.</td>
<td>322</td>
<td>Sabashnikov A.</td>
<td>322</td>
</tr>
<tr>
<td>Sabashnikov A.</td>
<td>322</td>
<td>Sabetai M.</td>
<td>1, 7, 296</td>
</tr>
<tr>
<td>Sabetai M.</td>
<td>1, 7, 296</td>
<td>Sadlier D.</td>
<td>327</td>
</tr>
<tr>
<td>Sadlier D.</td>
<td>327</td>
<td>Saez D.G.</td>
<td>321</td>
</tr>
<tr>
<td>Saez D.G.</td>
<td>321</td>
<td>Safi H.</td>
<td>4, 10, 295</td>
</tr>
<tr>
<td>Safi H.</td>
<td>4, 10, 295</td>
<td>Saha K.</td>
<td>268</td>
</tr>
<tr>
<td>Saha K.</td>
<td>268</td>
<td>Saha K.K.</td>
<td>268</td>
</tr>
<tr>
<td>Saha K.K.</td>
<td>268</td>
<td>Salah A.</td>
<td>p55</td>
</tr>
<tr>
<td>Salah A.</td>
<td>p55</td>
<td>Saleem K.</td>
<td>p44</td>
</tr>
<tr>
<td>Saleem K.</td>
<td>p44</td>
<td>Salih C.</td>
<td>380</td>
</tr>
<tr>
<td>Salih C.</td>
<td>380</td>
<td>Salmon A.P.</td>
<td>381</td>
</tr>
<tr>
<td>Salmon A.P.</td>
<td>381</td>
<td>Salzberg S.</td>
<td>24</td>
</tr>
<tr>
<td>Salzberg S.</td>
<td>24</td>
<td><strong>AUTHOR INDEX</strong></td>
<td><strong>AUTHOR INDEX</strong></td>
</tr>
</tbody>
</table>
Sandeman D.V. 332  Solinas M. 240
Santarpino G. 179  Solymosi N. 401, 451, 455
Santini F. 258  Soni M. 253
Santo K. p39  Sooranna S. 271
Santoro G. 258  Soppa G. 176, 205, 256, 260,
Sarlis G. 223, 241  274, p27
Sarmsam M. p23, p27  Sarlis G. 258
Sarvananthan S. 242  Sarvananthan S. 242
Sastry P. 393  Sayeed R. 361, 387
Sayed A. 262  Schepens M. 270, 295
Sayeed R. 361, 387  Schurr U.P.F. 252
Scarcia M. 393, 426, 431  Schwab T. 320
Scheepens M. 270, 295  Stamenkovic S. 391, 432
Schepens M. 270, 295  Schweigert M. 401, 451,
Schepens M. 270, 295  455, p3
Seccareccia F. 258  Sepehripour A. p38
Segurado R. 251, 257  Shackcloth M. 345, 390,
Senanayake E. 167, 172, 429, p39
Senanayake E. 167, 172, 429, p39  Sepehripour A. p38
Sepehripour A. p38  Shackcloth M. 345, 390,
Shah R. 461, p59  424, p58
Shah S. 161, 173  Shah R. 461, p59
Shah T. p39  Shah S. 161, 173
Shamekhrezai K. 384, 398, 449  Shah T. p39
Shanmuganathan S. 248  Shah S. 161, 173
Sharabiani M.T. 242, 383  Shah T. p39
Sharkey A.J. 402, 418, 444  Shamekhrezai K. 384, 398, 449
Sharp J. p10  Shanmuganathan S. 248
Shaw M. 304, p42, 424, p58  Sharabiani M.T. 242, 383
Shaw M. 304, p42, 424, p58  Sharkey A.J. 402, 418, 444
Sherwood S. 333  Sharp J. p10
Silver S. 321  Shaw M. 304, p42, 424, p58
Simon A.R. 322  Silver S. 321
Simpson E. 229  Simon A.R. 322
Singh N. 370, 408, p61  Simpson E. 229
Sirc J. 179  Singh N. 370, 408, p61
Skouras C. 398  Sirc J. 179
Slight B. 432  Skouras C. 398
Smelt J. 176, 205, p6, 432  Slight B. 432
Smith A. 305, 307  Smelt J. 176, 205, p6,
Smith D. 410  Smith A. 305, 307
Smith E. p23  Smith D. 410
Smith J. p27  Smith E. p23
Smith M. p60  Smith J. p27
Smith M.O. 402  Smith M. p60
Smith T.A. p37  Smith M.O. 402
Sobhun G. 358, p50  Smith T.A. p37
Socci L. 395  Sobhun G. 358, p50
Soliman R. p52  Socci L. 395

SCT S EDINBURGH 147
AUTHOR INDEX

Tristram Z. 244
Tsitsias T. 445
Tsui S. 315, 316
Turner M. 383
Turton M. p44
Tymko R. p25, p26
Uhbi C. 403
Unsworth-White J. 311
Uppal R. 208, 214, 260, p38
Urban M. 323
Uzzaman M. 395
Vad H. 400
Vaja R. 405, 418
Valencia O. 256, p23, p27, p45
Vallabhajosyula P. 279
Van Besouw J.P. 176, p6
Van Loo M.A. 349
Van Raemdonck D. 107, 129
Van Rensberg L. 148
Vanermen H. 66, 136, 139
Vaughan P. 312
Vedsted P. 442
Venkateswaran R.V. 265
Veres L. 427
Verheyden V. 194, 195, 197, 231, p21
Viant M. 172
Vijayan A. p1
Viola N. 381
Viviano A. 176, 228, 271, p23
Vogt F. 179
Von Oppell U. p16, p25, p26
Vranckx J. 107
Walker P. 265
Walker W.S. 410, 428, 443, 449
Waller D. 435
Waller D.A. 312, 314, 405, 418, 444, 445, 462
Walthew A. 345
Wang L. 310
Ward A. 311
Waterfall M. p44
Watson R.W.G. 164
Weber R. 172
Weller A. 386
Wendler O. 133, 162, 254, 259, 273, 296
Wendon J. 162
West D.G. 86, 388, 446, 452, 464
Weymann A. 321, 322
Wharton L. p34
White R.W. 178, 180, 276, p17, p29
Whiteley J. 390
Wilcox J. p60
Will M. 410, 428, p57
Williams I. p16
Williams J.A. p2
Wilson I. 167
Wiltshire M. 194
Witzke H. 337
Wong K. p38
Wong L. 327
Woo E. 407, 450
Woolley S.M. 345, 390, 424, p58
Wotton R. 394, 400
Wozniak M. 194, 197, p21
Yadav R. 201, 358, p50
Yan T. p43, p51
Yates M.T. 176, 260, 274, p6, p67
Yilmaz A. 138
Yin X. 228, 271
Yonan N. 265
Young C. 255, 296, 305, 307
Young P. 236
Youssefi P. 317, p6
Zacharias J. 220, 359
Zaheer A. 236
Zakkar M. p23
Zaman A. 244
Zampetaki A. 271
Zamvar V. 60
Zeinah M. 161, 262
Zych B. 321, 322
Zaheer A. p48

This moment
your skill meets our innovation
is everything.

EDWARDS INTUITY
VALVE SYSTEM

EDWARDS SAPIEN XT
TRANSCATHETER HEART VALVE

THRUPORT SYSTEMS

Progress Confidently

For professional use. See instructions for use for full prescribing information.
CE marked medical device.

Edward Lifesciences, the Edward logo, EDWARDS INTUITY, Edwards SAPIEN XT, CARBON, SAPIEN XT and ThruPort are trademarks of Edwards Lifesciences Corporation. © 2013 Edward Lifesciences Corporation. All rights reserved. E89978-13-GEN

Edward Lifesciences | Edwards.com
USA | Switzerland | Japan | China | Brazil | Australia | India
Cardiothoracic solutions from Johnson & Johnson

VISIT US IN THE EXHIBITION HALL AT SCTS 2014

Scan here to learn more about our commitment to cardiothoracic educational events

Delivered by:

ETHICON
PART OF THE JOHNSON & JOHNSON FAMILY OF COMPANIES

DePuy Synthes
COMPANIES OF JOHNSON & JOHNSON
People inspired

ETHICON BIOSURGERY | By Your Side®