28th EACTS Annual Meeting
Milan, Italy
11 - 15 October 2014
www.eacts.org
Covidien Surgical Solutions in Thoracic Surgery

Endo GIA™ Radial Reload with Tri-Staple™ Technology

Access, with potential to spare tissue in Thoracic Surgery

- Avoid crossing staple lines
- Create greater distal margins
- Save healthy lung tissue

LigaSure™ Maryland Jaw
Open/Laparoscopic Sealer/Divider

Reach for Perfection

- Efficient
- Versatile
- Multifunctional

1Based on product design; straight reloads versus radial reloads
<table>
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**Programme Overview by Day:**

**Saturday 11 October 2014**
- Techno College

**Sunday 12 October 2014**
- Postgraduate Education

**Monday 13 October 2014**
- Scientific Programme, Professional Challenge and Focus Sessions

**Tuesday 14 October 2014**
- Scientific Programme, Professional Challenge and Focus Sessions

**Wednesday 15 October 2014**
- Advanced Techniques

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**Council**

- Executive Secretariat
- Past Presidents
- Honorary Members
- On Site Information
- Social Programme
- Acknowledgements
- Commercial Relationships/Conflict of Interest Disclosures

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**Domain of Acquired Cardiac Disease**

- Techno College
- Postgraduate Education and Professional Development Sessions
- Scientific Programme, Professional Challenge, Focus and Simulation Sessions
- Advanced Techniques

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**Domain of Thoracic Disease**

- Techno College
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- Advanced Techniques
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Sign up here to join our online campaign on Reconstruction of the Aortic Valve and Root

by Prof. Hans-Joachim Schäfers, Professor of Thorax and Cardiovascular Surgery, Universitätsklinik des Saarlandes, Germany.
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<tr>
<td>08:00 - 10:30</td>
<td>Transcatheter aortic valve implantation</td>
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<td>09:00 - 12:30 Chest wall deformities, trauma and tumours: Part I</td>
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<td>10:30 - 12:10</td>
<td>Aortic surgery</td>
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<td>Lunch</td>
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<td>13:10 - 15:35</td>
<td>Miral valve</td>
<td>13:00 - 15:00 Valves and conduits for the right ventricular outflow tract. Reconstruction and repair of the pulmonary arteries. Session I: Conduits and valves</td>
<td>13:30 - 18:00 Chest wall deformities, trauma and tumours: Part II</td>
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<td>15:35 - 18:00</td>
<td>Ablation/Imaging/Heart Failure</td>
<td>15:30 - 18:00 Session II: Pulmonary artery reconstruction beyond central pulmonary arteries</td>
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<td>Time</td>
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<td>08:30 - 10:00</td>
<td>Gold Room</td>
<td>Plenary session - Delivering value in healthcare: A vision for innovation</td>
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<td>08:00 - 09:30</td>
<td>Amber 1&amp;2</td>
<td>Quality Improvement Programme: Session 1: Euromacs</td>
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<td>Quality Improvement Programme: Session 2: Quip Databases/Registries</td>
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<td>10:00 - 12:00</td>
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<td>Nurses session 1</td>
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<td>10:30 - 12:15</td>
<td>Brown 1</td>
<td>Coronary - Better decisions better outcome</td>
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<td>Different patterns of bicuspid aortic valve associated proximal aortopathy: RESECT or RESPECT?</td>
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<td>10:30 - 12:00</td>
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<td>Interactive session on management of lung cancer staging - clinical implications</td>
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<td>Antimicrobial peptides and tissue engineering</td>
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<td>10:30 - 12:00</td>
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<td>Mitral disease in Latin America: Repair vs. replacement</td>
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<td>Improving perfusion - Part 1</td>
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<td>10:30 - 16:00</td>
<td>Raphael</td>
<td>Teach the Teacher</td>
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<td>13:00 - 14:30</td>
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<td>Aortic valve repair - replacement - Early surgery better outcome</td>
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<td>13:00 - 14:30 EACTS/STS aortic session - Controversies in treating the distal aorta with and without previous proximal repair: Wire or knife</td>
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<td>12:30 - 14:00 Oligometastatic diseases</td>
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<td>13:00 - 15:00 Circulating viewpoints - Paternalism to partnership: Sharing the responsibility</td>
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<td>13:00 - 14:30 Re - operation techniques</td>
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<td>13:00 - 14:00 Nurses session 2</td>
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<td>13:00 - 14:30 The paracrine option of stem cells and mononuclear cells: From bench to bedside</td>
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<td>13:00 - 14:00 Etiology and current treatment of aortic and mitral disease in Latin America</td>
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<td>Amber 8</td>
<td>13:00 - 14:30 Improving perfusion - Part 2</td>
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<td>14:45 - 16:30 EACTS/STS aortic session - How to treat type B aortic dissection: One question, many answers, which solution?</td>
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<td>14:30 - 16:00 Intraoperative complications</td>
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<td>14:45 - 16:30 Preconditions for healing ischaemic tissue: An introduction to clinical reality</td>
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<td>14:00 - 15:00 TAVI in Latin America: Is it something we can afford</td>
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<td>14:45 - 16:15 Transplantation and organ assist</td>
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<td>Amber 8</td>
<td>15:00 - 16:00 Education and valve disease: Awareness and referral patterns</td>
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<td>08:15 - 09:45</td>
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<td>A lifetime living with atrioventricular septal defect</td>
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<td>Prediction: Art or science</td>
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<td>Part II: Cannulation issues in aortic surgery: Doing things right or doing the right things</td>
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<td>Brown 1</td>
<td>Minimally invasive mitral valve surgery</td>
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<td>Complicated type A aortic dissection: Malperfusion and outcome</td>
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<td>Congenital rapid response</td>
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<td>14:15 - 15:45</td>
<td>Amber 1&amp;2</td>
<td>What is the benefit of a radial conduit?</td>
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<td>14:15 - 15:45</td>
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<td>Nightmares in cardiothoracic surgery</td>
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<td>Left ventricular assist device 2</td>
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<td>Proximal thoracic aortic pathology: Variations on a theme</td>
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<td>Thoracic rapid response</td>
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<td>16:00 - 17:30</td>
<td>Amber 6</td>
<td>Predictive and non-invasive evaluation of congenital heart disease</td>
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<td>16:00 - 17:30</td>
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<td>Transcatheter aortic valve implantation and its place in the contemporary treatment</td>
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<td>Time</td>
<td>Amber 7</td>
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<td>Michelangelo</td>
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<td>08:15 - 09:45</td>
<td>Thoracic non-oncology I</td>
<td>08:15 - 09:45</td>
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<td>Small incisions and sutureless valves: A perfect marriage</td>
<td>Left ventricular assist devices: Softening the blow</td>
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<td>15:45 - 16:00</td>
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<td>16:00 - 17:30</td>
<td>Developing cardiac surgery in the Southern Hemisphere</td>
<td>16:00 - 17:30 Basic Science 2</td>
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**Acquired Cardiac Disease**

**Thoracic Disease**

**Congenital Disease**

**Vascular Disease**
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<td>08:15 - 09:45</td>
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<td>Part I: Catheter based mitral interventions: The mitral going transcutaneous</td>
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<td>Brown 1</td>
<td>08:15 - 09:45 Thoraco-abdominal aortic repair reloaded</td>
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<td>08:15 - 09:45 Thoracic oncology III</td>
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<td>08:15 - 09:45 Valve repair</td>
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<td>08:15 - 09:45 The Fontan-Total cavopulmonary connection circulation</td>
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<td>08:15 - 09:45 Hot strategies in complex cardiac surgery</td>
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<td>Part II: Catheter based mitral interventions: The mitral going transcutaneous</td>
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<td>10:15 - 11:45 Thoracoabdominal aortic pathology - a functional approach in preserving spinal cord integrity</td>
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<td>10:15 - 11:45 Oesophagus</td>
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<td>10:15 - 11:45 Adult cardiac rapid response 2</td>
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<td>10:15 - 11:45 The problem of low birth weight and premature babies</td>
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<td>10:15 - 11:45 Surgical remodelling of the left ventricle</td>
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<td>Honoured Guest Lecture - Gold Room</td>
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<td>Lunch; Visit Exhibition, Satellite Sessions</td>
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<td>Residents' Luncheon: The Clash of the Titans returns!</td>
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<td>14:15 - 15:45</td>
<td>Basic Science</td>
<td>14:15 - 15:45 Aortic rapid fire session - Fire and ice in aortic medicine</td>
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<td>14:15 - 15:45 Preventing problems after open cardiac surgery</td>
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<td>14:15 - 15:45 Heart transplantation</td>
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<td>Late Breakers II</td>
<td>16:00 - 17:30 Linking resection and reconstruction of intrathoracic organs</td>
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<td>16:00 - 17:30 Treating mitral regurgitation in 2014 with percutaneous mitral valve repair</td>
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<td>16:00 - 17:30 Cardiac surgery in marginal patients</td>
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<td>16:00 - 17:30 Infective endocarditis and outcomes</td>
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<td>Amber 5</td>
<td>16:00 - 17:30 All alone in the operating room - Tips and tricks in urgent disasters</td>
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**Acquired Cardiac Disease** - Purple

**Thoracic Disease** - Green

**Congenital Disease** - Orange

**Vascular Disease** - Yellow
<table>
<thead>
<tr>
<th>Time</th>
<th>Amber 6</th>
<th>Amber 7</th>
<th>Amber 8</th>
<th>Michelangelo</th>
<th>Raphael</th>
<th>Botticelli</th>
<th>Titan</th>
<th>da Vinci</th>
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<tr>
<td>08:15 - 09:45</td>
<td>Meet the experts</td>
<td>The clinical anatomy of the cardiac veins (with special emphasis on electrophysiologic and percutaneous procedures)</td>
<td>08:15 - 09:45 Thoracic non oncology II</td>
<td>08:15 - 09:45 Films</td>
<td>08:15 - 09:45 Congenital aortic valve disease and Ross procedure</td>
<td>08:15 - 09:45 Aortic valve repair - Repair is for everyone</td>
<td>08:15 - 09:45 Basic Science: Genes, cells and drugs</td>
<td>08:15 - 09:45 Endoscopic port-access mitral valve repair drylab training using high-fidelity simulators</td>
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<td>11:50 - 12:30</td>
<td>Honoured Guest Lecture - Gold Room</td>
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<td>16:00 - 17:30</td>
<td>Can minimally invasive ablation keep up its promise for lone atrial fibrillation</td>
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**Acquired Cardiac Disease**  **Thoracic Disease**  **Congenital Disease**  **Vascular Disease**
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<th>Time</th>
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<th>Brown 3</th>
<th>Amber 1&amp;2</th>
<th>Amber 3</th>
<th>Amber 4</th>
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<td>09:00 - 12:00</td>
<td>How to do it:</td>
<td>08:30 - 10:00</td>
<td>09:00 - 10:30</td>
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<td>09:00 - 11:40</td>
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<td>With live-in-a-box</td>
<td>Part I: Cannulation and extraction techniques - Putting it in and taking it out</td>
<td>Controversies and catastrophes in adult cardiac surgery - Part I</td>
<td>Transcatheter aortic valve implantation complications</td>
<td>Good times, bad times and how to live with both</td>
<td>Fine-tuning coronary revascularization</td>
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<td>Part II: Cannulation and extraction techniques - Putting it in and taking it out</td>
<td>Controversies and catastrophes in adult cardiac surgery - Part II</td>
<td>Optimizing arterial grafting: Configuration</td>
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<td>09:00</td>
<td>Amber 5</td>
<td>Advanced transcatheter aortic valve implantation - Computerised tomography imaging for surgeons &amp; drylab</td>
<td>09:00 - 12:00 Right ventricle outflow tract reconstruction with handmade monocusp &amp; harvesting of the pulmonary valve for the Ross procedure</td>
<td>09:00 - 12:00 Introduction to mitral valve repair &amp; wetlab</td>
<td>09:00 - 12:00 Aortic valve repair/sparing for bicuspid and tricuspid valve wetlab</td>
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<td>09:00</td>
<td>Amber 6</td>
<td>Right ventricle outflow tract reconstruction with handmade monocusp &amp; harvesting of the pulmonary valve for the Ross procedure</td>
<td>09:00 - 12:00 Thoracic symentectomy &amp; vascular repair techniques</td>
<td>09:00 - 12:00 Thoracic video session</td>
<td>08:15 - 08:45 Endoscopic port-access mitral valve repair drylab training using high-fidelity simulators</td>
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Admission Badges
All pre-registered delegates will have been sent an e-badge prior to the event containing a barcode. This will enable you to print out your badge on site. For organisation and security reasons, name badges must be worn at all times at the congress venue. Changes to name badges on-site will be charged at €25. A fee of €100 will be charged for the replacement of lost badges.

ATM, Banks, Currency and Credit Cards
The currency in Italy is the Euro (€). Most hotels, restaurants and shops in Milan accept major credit cards. In general, most banks in Milan operate between the hours of 09:00 and 16:30, Monday to Friday, although business hours do vary from one industry to another. Most Milan banks open between 08:30 to 13:30 and 14:45 to 15:45 Monday to Friday, with major branches often opening for a couple of hours on Saturday mornings. Many are in the heart of the city and usually have ATMs outside that accept a wide network of cards and offer excellent wholesale exchange rates.

Certificates of Attendance
Certificates of attendance are available from the registration desks or alternatively via the EACTS user area.

Cloakroom
A manned cloakroom will be open throughout the opening hours of the Annual Meeting. Items may be left at a nominal charge of €2 per item, per day.

Congress Centre
MiCo - Milano Congressi
Main Entrance Gate 2.
Metro: Red Line to Amendola
Exit Amendola station by door marked Fiera Campionaria. This station is 700m from the Congress Centre via viale Berengaria / viale Eginardo / viale Scarampo to Main Entrance Gate 2.
Bus Route: 78 (Lorenteggio - VIA Govone), Stop: Via Colleoni (Fieramilanocity)

Delegate Bags
Please ensure that your bag is clearly labelled with your name.

Dress
The dress code for the Annual Meeting and associated events is informal with the exception of the Presidential Dinner for which a suit and tie is recommended.

Electricity
The power supply in Italy is 220V AC. All sockets follow European standards. To use American-type plugs, a 220V transformer should be used together with an adapter plug.

Facilities for the Disabled
Exhibitors with any special needs who require details regarding the facilities available within the centre should contact the Organisers.

First Aid/Emergency
Should you require first aid assistance, please contact the registration desk or any uniformed member of the meeting staff.

Insurance and Liability
Participants are encouraged to make their own arrangements in respect of health and travel insurance. Neither EACTS nor any of its appointed agencies can be held responsible for any personal injury, loss, damage, accident to private property or additional expense incurred as a result of delays or changes in air, rail, sea, road or other services, strikes, sickness, weather and any other cause.

Language
The official language of the EACTS and the Annual Meeting is English.

Lost And Found
Lost and found enquiries should be directed to the Messages and Information Desks in the registration area. To minimise losses, please ensure that any personal items, including delegate bags, are properly labelled.
Lunch and Refreshments

Techno College, Saturday 11 October
Lunch and refreshment breaks are included in the delegate fee and will be available in the Gold Room foyer area on Level 2.

Postgraduate Courses, Sunday 12 October
A morning refreshment break is included in the delegate fee. Lunch is not included but can be purchased from the cash catering points outside the meeting rooms in the foyer areas on Level 2.

Scientific Programme,
Monday 13 – Wednesday 15 October
Coffee and tea will be available in the exhibition area, Level 0, during official programme breaks and will be included in the registration fee. Lunch is not included, however there will be cash catering points in the exhibition area and on Level 2, where delegates may purchase food and drinks.

Opening Hours

Scientific Meeting
- Saturday 11: 08:00-18:00
- Sunday 12: 08:30-16:30
- Monday 13: 08:15-17:30
- Tuesday 14: 08:15-17:30
- Wednesday 15: 08:30-13:00

Messages
Messages should be handed in to staff at the Messages & Information Desks in the registration area. Delegates are reminded to check for messages on a regular basis throughout the meeting.

Photography in Session Rooms
The use of any photographic or recording device in the scientific sessions is strictly prohibited. This includes, but is not limited to, mobile telephones, digital and still cameras, video and/or audio recording devices.

Registration and Information Desks
Registration and information desks will be on Level 1 of the Congress Centre:

Registration
- Friday 10: 14:00–18:00
- Saturday 11: 07:00–19:00
- Sunday 12: 07:00–19:00
- Monday 13: 08:00–17:00
- Tuesday 14: 08:00–17:00
- Wednesday 15: 08:00–12:00

To avoid unnecessary delay, you are strongly recommended to register and collect Meeting documentation on Friday 10 and Saturday 11 October if possible. Delegates who have registered prior to the event should report to the E-badge area where they will be able to print out their badge and other relevant documentation.

Trade Exhibition
The Exhibition will take place in the MiCo Exhibition Hall, Level 0:

Trade Exhibition
- Sunday 12: 15:00–19:00
- Monday 13: 09:00–17:00
- Tuesday 14: 09:00–17:00

Training Village
The following organisations will be holding training sessions in the Training Village on Level 1 of the Centre. For further information regarding these, please contact the relevant organisations:
- Edwards Lifesciences SA
- Johnson & Johnson Medical SpA
- Medtronic International Trading Sàrl
- Sorin Group Italia SRL
- St Jude Medical

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NO-SMOKING POLICY
Smoking is strictly prohibited in all meeting, catering and foyer areas AT ALL TIMES.
Welcome Reception
Sunday 12 October, from 17:00
An informal reception at which drinks and canapés will be served. The reception will be held in the Exhibition areas and is open to registered delegates, exhibitors and exhibition visitors.

Presidential Dinner
Tuesday 14 October, from 19:30
The Presidential Dinner will be held at the Hotel Principe di Savoia, Piazza della Republica 17, Milan 20124. Dominating Milan’s Piazza della Repubblica, this spectacular landmark building has been the natural home for international travellers and cosmopolitan society since the 1920s.

Admission will be by invitation only which must be purchased in advance. Price €80 per person (subject to availability).

Coach transfers will be provided to and from the venue. Please refer to the timetable at the Socials Desk for further information.
EACTS is grateful to the following organisations for their educational grants in respect of this year’s Techno College:

Admedus GmbH
Aesculap AG
AtriCure Europe bv
Boston Scientific
CorAssist Cardiovascular
CorMatrix Cardiovascular
Edwards Lifesciences
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LSI Solutions
Medtronic International Trading Sàrl
Philips Healthcare
St Jude Medical
Sorin Group Italia SRL
Symetis SA
Thoratec Corporation
Valtech Cardio
Vascutek Ltd
001 AORTIC REMODELLING IN AORTIC DISSECTION AFTER FROZEN ELEPHANT TRUNK
D.S. Dohle, K. Tsagakis, A. Janosi, J. Benedik, H. Kühl, L. Penkova, D. Wendt, H.G. Jakob (Germany)

Relationship Disclosure: H. Jakob is a consultant to Jotec GmbH

013 EUROPEAN MULTICENTRE EXPERIENCE WITH SUTURELESS PERCEVAL VALVE: CLINICAL AND HAEMODYNAMIC OUTCOMES UP TO 5 YEARS IN OVER 700 PATIENTS
M. Shrestha, F. Laborde, T. Carrel, T. Fischlein, B. Meuris, F. Madonna, M. Misfeld, A. Haverich (Germany, France, Switzerland, Belgium)

Relationship Disclosure: The first author has a consultant (Speaker, proctor) agreement with Sorin Biomedica. The participating study-centers received an unrestricted study grant from Sorin for the multi-center study.

014 RIGHT ANTERIOR MINI-THORACOTOMY FOR ISOLATED AORTIC VALVE REPLACEMENT: TEN-YEAR EXPERIENCE IN 484 PATIENTS
M. Glauber, D.S. Gilmanov, A. Miceli, P.A. Farneti, M. Ferrarini, M. Murzi, F. Chiaramonti, M. Solinas (Italy)

Relationship Disclosure: Two authors of the abstract (Dr Glauber M. - presenter, and Dr Solinas M.) have financial relationship (consultancy disclosures) with Sorin Group.

016 SUTURELESS AORTIC VALVES SAVE HOSPITAL COSTS WHEN COMPARED TO TRADITIONAL VALVES
B. Meuris, P. Verbrugghe, S. Sainte, H. De Praetere, F. Rega (Belgium)

Relationship Disclosure: Speakers bureau for Sorin

018 CLINICAL AND HAEMODYNAMIC OUTCOMES IN 658 PATIENTS RECEIVING THE PERCEVAL SUTURELESS AORTIC VALVE: EARLY RESULTS FROM A PROSPECTIVE EUROPEAN MULTICENTRE STUDY (CAVALIER TRIAL)
F. Laborde, T. Fischlein, K. Hakim-Meibodi, M. Misfeld, T. Carrel, M. Zembala, B. Meuris, A. Haverich (France, Germany, Switzerland, Poland, Belgium)

Relationship Disclosure: The CAVALIER trial was sponsored by Sorin Group Italia S.r.l, the manufacturer of Perceval valve. Disclosures: François Laborde, Theodor Fischlein, and Bart Meuris are proctors for Sorin Group

019 IS ANTIPLATELET THERAPY REQUIRED IN HEARTMATE II PATIENTS: PRELIMINARY RESULTS FROM THE EUROPEAN TRACE STUDY
J.D. Schmitto, P.Y. Litzler, M. Berchtold-Herz, E. Flecher, D. Zimpfer, L. Damme, K. Sundareswaran, I. Netuka (Germany, France, Austria, United Kingdom, United States Of America, Czech Republic)

Relationship Disclosure: Authors are employees or consultants for Thoratec co-operation
022 NOVEL MINIMALLY INVASIVE DECOMMISSIONING OF HEARTWARE LEFT VENTRICULAR ASSIST DEVICE FOLLOWING MYOCARDIAL RECOVERY
N. Wrightson, N. Robinson-Smith, T. Butt, B. Ramesh, F. Oezalp, G. MacGowan, A. Donado, S. Schueler (United Kingdom)
Relationship Disclosure: I proctor for HeartWare

048 SAFETY AND FEASIBILITY OF A NEW ADJUSTABLE MITRAL ANNULOPLASTY RING: A MULTICENTRE EUROPEAN EXPERIENCE
M. Andreas, A. Kocher, S. Livesey, M. Castella, F. Casselman, N. Doll, G. Laufer, M. Czesla (Austria, United Kingdom, Spain, Belgium, Germany)
Relationship Disclosure: Travel cost refunding

059 LONG-TERM RESULTS OF CONCOMITANT VIDEO-ASSISTED MINIMALLY INVASIVE ATRIAL FIBRILLATION CRYOABLATION VALIDATED BY CLINICAL AND ELECTROPHYSIOLOGICAL ASSESSMENT
G. Marchetto, M. Anselmino, S. Mancuso, C. Rovera, M. Antolini, M. Morello, F. Gaita, M. Rinaldi (Italy)
Relationship Disclosure: Professor Mauro Rinaldi proctor and consultant for Edwards Lifesciences

070-I TRIBECA STUDY: (TRI)FECTA (B)IOPROSTHESES (E)VALUATION VS (C)ARPENTIER MAGNA-EASE IN (A)ORTIC POSITION
Relationship Disclosure: Dr. Colli owns stocks of Edwards Lifesciences

072-I SUTURELESS AORTIC VALVE REPLACEMENT WITH A PERCEVAL S PROSTHESIS: THREE-YEAR SINGLE CENTRE EXPERIENCE IN 390 PATIENTS
Relationship Disclosure: Two authors of the abstract (Dr Glauber M. - presenter, and Dr Solinas M.), have financial relationship (consultancy disclosure) with Sorin Group.

120 ULTRASOUND-ASSISTED TREATMENT OF STERNOCUTANEOUS FISTULA IN POSTSTERNOTOMY CARDIAC SURGERY PATIENTS
L. Tewarie, A.K. Moza, R. Zayat, A. Goetzenich, A.K. Menon, R. Autschbach (Germany)
Relationship Disclosure: This study was supported by a research grant from Söring, Quickborn /Germany. The sponsor was not involved in any phase of study preparation, conduction, analysis and preparation of this manuscript.

131 CHRONIC ANIMAL EXPERIENCE WITH THE CARMAT BIOPROSTHETIC ARTIFICIAL HEART
C. Latremouille, D. Duveau, B. Cholley, L. Zilberstein, P. Bruneval, J. Perles, P. Jansen, A. Carpentier (France)
Relationship Disclosure: Latremouille is a consultant to CARMAT SA, Perles and Jansen are employees of CARMAT SA, Carpentier holds equity in CARMAT SA.
134 NEURON-SPECIFIC ENOLASE CORRELATES TO LABORATORY MARKERS OF HAEMOLYSIS IN PATIENTS ON LONG-TERM CIRCULATORY SUPPORT
C. Heilmann, C. Benk, R. Klemm, G. Trummer, M. Berchtold-Herz, F. Beyersdorf, U. Geisen (Germany)

Relationship Disclosure: Ulrich Geisen discloses research funding by Roche Diagnostics GmbH, Germany, and Roche Diagnostics International AG, Switzerland.

145 NO DIFFERENCE IN OUTCOME AT FIVE YEARS AFTER TRANSFEMORAL AND TRANSAPICAL TRANSCATHETER AORTIC VALVE IMPLANTATION IN MORE THAN 1000 PATIENTS
S. Bleiziffer, Y. Elhmidi, M. Dorfmeister, D. Mazzitelli, H. Ruge, D. Vincze, N. Piazza, R. Lange (Germany, Canada)

Relationship Disclosure: Proctor for Medtronic and JenaValve

150 SAFETY AND EFFECTIVENESS OF TRANSAORTIC APPROACH FOR TRANSCATHETER AORTIC VALVE IMPLANTATION: PROCEDURAL AND MID-TERM OUTCOMES OF 232 CONSECUTIVE PATIENTS AT A SINGLE CENTRE
M. Romano, A. DaPrati, F. Tizzano, D. Le Houérou, A. Farge, T. Lefèvre, B. Chevalier, M.C. Morice (France)

Relationship Disclosure: Consultant and Proctor for Edwards Lifesciences. Speaker’s honoraria: modest

170 TISSUE ENGINEERED MITRAL VALVE: MORPHOLOGY AND BIOMECHANICS
P. Yablonski, S. Cebotari, I. Tudorache, M. Granados, L. Morticelli, S. Korossis, A. Hilfiker, A. Havench (Germany)

Relationship Disclosure: The work was supported by the CORTISS Foundation.

178-I RECONSTRUCTIVE SURGERY IN ADULTS WITH CONGENITAL MITRAL VALVE DISEASE
J.G. Castillo, G. Torregrossa, A.C. Anyanwu, D.H. Adams (United States Of America)

Relationship Disclosure: Dr. Adams is an inventor and consultant for Edwards Lifesciences and Medtronic. The rest of authors have no conflict of interest.

179-I REPAIR OF A DILATED ROSS AUTOGRAFT USING AORTIC RING ANNULOPLASTY AND ROOT RESTORATION
D. Mazzitelli, J. Hoerer, J.S. Rankin, C. Nöbauer, R. Lange, C. Schreiber (Germany, United States Of America)

Relationship Disclosure: Drs. Rankin and Mazzitelli are consultants for BioStable Science and Engineering, Inc. and the HAART 300 ring is an investigational device undergoing trials in Europe.

219 FUNCTIONAL AND BIOMECHANICAL PERFORMANCE OF STENTLESS EXTRACELLULAR MATRIX TRICUSPID TUBEGRRAFT IN PIGS
D.M. Ropcke, C. Ilkjaer, T. Hejslet, A.V. Soerensen, H. Jensen, M.O.J. Jensen, V.E. Hjortdal, S.L. Nielsen (Denmark, United States Of America)

Relationship Disclosure: CorMatrix® Cardiovascular Inc. provided the extracellular matrix material. The authors have all intellectual rights to the study protocol and the data presented herein.
CONVENTIONAL VERSUS TRANSAPICAL AORTIC VALVE REPLACEMENT: IS IT TIME FOR INDICATION SHIFT?
S. Ahad, H. Baumbach, S. Hill, T. Schaeufele, M. Beyer, R. Berroth, U.F. Franke (Germany)

Relationship Disclosure: Prof. U. Franke is physician consultant of JenaValve Technology GmbH. Dr. H. Baumbach is physician consultant of Edwards Lifesciences and JenaValve Technology GmbH.

SAFETY OF A NOVEL SURGICAL THERAPY FOR THE TREATMENT OF ADVANCED HEART FAILURE: REVIEW OF SURGICAL MORBIDITY AND MORTALITY OF ALGISYL-LVR FROM THE AUGMENT-HF TRIAL
L. Menicanti, I. Mocanu, F. Miraldi, S. Marasco, A. Hinson, R.J. Lee, H.N. Sabbah, D.L. Mann (Italy, Romania, Australia, United States Of America)


ENDOAORTIC BALLOON CLAMPING AND TRANSTHORACIC AORTIC CLAMPING ARE BOTH SAFE AND EFFECTIVE IN MINIMALLY INVASIVE MITRAL VALVE SURGERY
M. Rinaldi, R. Krakor, M. Bentala, F. Casselman, P. Candolfi, C. Barbero, J. Goldstein (Italy, Germany, Netherlands, Belgium, Switzerland)

Relationship Disclosure: The authors are member of the medical advisory board at Edwards Lifesciences.

A NEW PRESSURE MAPPING SYSTEM TOWARDS OPTIMISING CARDIAC PROSTHETIC ATTACHMENT

Relationship Disclosure: Dr. Sauer, President and CEO, Mr. Martellaro, Designer, Ms. Gorea, Clinical Research Manager, LSI Solutions. Dr. Lee, recipient of Dr. Peter Knight Research Fellowship, supported by LSI Solutions.

FEASIBILITY AND RELIABILITY OF NURSE-PERFORMED POCKET-SIZE ULTRASOUND IMAGING OF THE PLEURA AND PERICARDIUM IN PATIENTS IN EARLY PHASE AFTER CARDIAC SURGERY

Relationship Disclosure: H Dalen hold position in Medical imaging Laboratory, a center of Research based innovation funded by the Research Council, university and industry. GE Ultrasound is one of the industrial partners.

SPINAL CORD INJURY AFTER ENDOVASCULAR TREATMENT FOR THORACO-ABDOMINAL ANEURYSM OR DISSECTION
M. Kato (Japan)

Relationship Disclosure: M Kato has received grants from Medtronic Inc., and Japan Lifeline Co., Ltd, and personal fees from Japan Gore Inc., Junken Medical Co., Ltd and Cook Japan Inc., for work outside the submitted work.
MINIMALLY INVASIVE MITRAL VALVE SURGERY WITHOUT AORTIC CROSS CLAMPING AND WITH FEMORAL CANNULATION NOT ASSOCIATED WITH INCREASED RISK FOR STROKE COMPARED TO TRADITIONAL MITRAL VALVE SURGERY: A PROPENSITY SCORE MATCHED ANALYSIS

N. Ad, S.D. Holmes, G. Pritchard, P.S. Massimiano (United States Of America)

Relationship Disclosure: Niv Ad is a consultant and speaker for AtriCure® Inc. and Medtronic, Inc. These relationships were not related to the research reported in this abstract.

OFF-PUMP CORONARY ARTERY BYPASS SURGERY IS ASSOCIATED WITH LOWER CARDIAC DEATH AT 1 YEAR: RESULTS FROM THE ON-PUMP VERSUS OFF-PUMP (ON-OFF) STUDY

M.G. Lemma, L. Piazza, G. Di Benedetto, M. Rinaldi, R. De Paulis, C. Losito, A. Rossi, M. Genoni (Italy, Switzerland)

Relationship Disclosure: Massimo Lemma is consultant for Medtronic, which is the study sponsor.

TRANSIT-TIME FLOW MEASUREMENT UNMASKS COMPETITIVE FLOW IN ARTERIAL BYPASS GRAFTS

T. Kieser, M. S. Rose (Canada)


SYSTEMATIC REVIEW COMPARING ENDOCARDIAL FULL MAZE TO EPICARDIAL ABLATION AND HYBRID PROCEDURE ON SAFETY AND EFFICACY OF MINIMALLY INVASIVE SURGICAL ABLATION FOR LONE ATRIAL FIBRILLATION

H.G. Je, N. Ad (United States Of America)

Relationship Disclosure: Niv Ad is a consultant and speaker for AtriCure® Inc. and Medtronic, Inc. These relationships were not related to the research reported in this abstract.

THE DOUBLE-ISOLATION LESION SET PROVIDES SUPERIOR OUTCOMES TO THE BOX LESION IN PATIENTS WITH STAND-ALONE, PERSISTENT ATRIAL FIBRILLATION

C. Muneretto, G. Bisleri, F. Rosati, L. Bonfempi, M. Cerini, A. Curnis (Italy)

Relationship Disclosure: Prof Muneretto and Dr. Bisleri disclose financial interest with Estech as consultant.
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*To find out more about the Covidien Sentinel Seal™ portable chest drainage unit, visit us at booth no 33 and 34.*
Acquired Cardiac Disease Domain Programme
Chair

John Pepper - London, UK

John Pepper is Professor of Cardiac Surgery and Head of Surgical Research and Education at the Royal Brompton and Harefield NHS Foundation Trust. He has a major interest in the diseases of the aortic valve, thoracic aorta and mechanical circulatory support for patients with chronic heart failure. He has led several major international trials in aortic valve replacement and coronary artery surgery that have had a significant impact on surgical practice. A novel prophylactic operation for Marfan Syndrome has been developed under his surgical leadership. He has published over 370 papers in peer reviewed journals and is Director of the Clinical Trials and Evaluation Unit at Royal Brompton and Harefield Hospitals. He has a major interest in postgraduate education, and has led research into skills assessment and its use in the selection of candidates wishing to pursue a career in cardiothoracic surgery. He was also closely involved in the development of a permanent skills laboratory and simulation laboratory in conjunction with the Royal Marsden Hospital at the Royal Brompton Hospital.

Acquired Cardiac Disease Academy Programme 2015

- Fundamentals in Cardiac Surgery: Part I 2-6 February
- Functional Mitral and Tricuspid Regurgitation 20-21 February
- Transcatheter Aortic Valve Implantation 25-27 February
- Ventricular Assist Device Coordinator Educational Course 26-28 March, Berlin, Germany
- Atrial Fibrillation 7-8 May
- Fundamentals in Cardiac Surgery: Part II 8-12 June
- Perioperative Skills in Cardiac Surgery 22-23 June
- Infection in Cardiac Surgery 2-3 July
- Advanced Aortic and Mitral Valve Reconstructive Surgery 10-11 July
- Advanced Module: Heart Failure: State of the Art and Future Perspectives 9-13 November

All courses to take place at EACTS House in Windsor, UK, unless stated otherwise.
## Chair:

John Pepper, London  
Michele De Bonis, Milan  
Christoph Huber, Berne  
Robert Klautz, Leiden  
Jolanda Kluin, Utrecht  
Thomas Modine, Lille  
J. Rafael Sadaba, Pamplona  
Matthias Siepe, Freiburg  
Rashmi Yadav, London

## Ex officio:

Paul Van Schil, Edegem (Antwerp)  
A. Pieter Kappetein, Rotterdam

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08:00–10:30 Session 1: Transcatheter aortic valve implantation
Moderators: A Cheung, Vancouver; F. Maisano, Zürich; N. Moat, London; H. Treede, Hamburg

Which valve, which patient, which access?
H. Treede, Hamburg

Live-in-a-Box video presentations
Combined transapical mitral valve balloon dilatation and aortic valve implantation
T. De Kroon, Nieuwegein

Apical closure device - modified ventricular septal defect occluder
E. Ferrari, Lausanne

Self-expanding transcatheter valve implantation for treatment of degenerated homograft
N. Moat, London

Transapical aortic valve-in-valve
H. Schröfel, Karlsruhe

Transapical valve implantation
A. Cheung, Vancouver

Live Surgery
Transapical minimized access transcatheter aortic valve implantation using access and closure system
3D
T. Walther, Bad Nauheim

Differentiated second generation technology using direct aortic vascular access
A. Linke, Leipzig

10:30 - 12:10 Session 2: Aortic surgery
Moderators: E. Ferrari, Lausanne; M. Grabenwöger, Vienna; M. Shrestha, Hannover

Techno College Innovation Award Presentation
P Sardari Nia, Maastricht

Live-in-a-Box video presentations
Self-expanding transcatheter valve implantation for treatment of degenerated homograft using a sutureless valve
G. Bhatnagar, Toronto

Beating heart total arch replacement with endoscopic assistance
3D
J. Coselli¹, M. Shrestha²; ¹Houston, ²Hannover

Ultra fast arch repair using a hybrid zone graft in acute type I aortic dissection: first clinical application
H. Jakob, Essen

Triple-stage approach for treatment of chronic type B dissection using the frozen elephant trunk procedure
M. Grabenwöger, Vienna

Live Surgery
Mini aortic valve replacement via a right lateral subclavicular approach
3D
L. Müller, Innsbruck

12:10 Lunch
13:10-15:35 Session 3: Mitral valve

Moderators: J. E. Bavaria, Philadelphia; T de Kroon, Nieuwegein; V. Falk, Berlin; J. Seeburger, Leipzig

Transcatheter tricuspid valve repair
F. Maisano, Zürich

Transapical mitral valve replacement
A. Cheung, Vancouver

Mitral bridge, a novel concept in the treatment of mitral regurgitation
S. Cerny¹, V. Subramanian²; ¹Prague, ²New York

Transapical transcatheter mitral valve replacement: first-in-human analysis
J. Bavaria, Philadelphia

Live-in-a-Box video presentations

Transapical mini valve-in-valve/valve-in-ring
Speaker to be advised

Transseptal mitral valve annuloplasty
F. Maisano, Zürich

Mini mitral valve-in-ring

3D M. Glauber, Milan

Transfemoral tricuspid valve-in-valve implantation in a radio-translucent bioprosthesis
L. Conradi, U. Schäfer; Hamburg

Mitral transcatheter heart valve surgery via a transapical approach
V. Bapat, London

Live Surgery

Minimally invasive mitral valve with ring implantation

3D P. Perier, Bad Neustadt/Saale

15:35-18:00 Session 4: Ablation/Imaging/HeartFailure

Moderators: T. A. Folliguet, Vandoeuvre Les Nancy; M. Glauber, Milan; J Gummert, Bad Oeynhausen

First-in-human intramyocardial extracellular matrix implant in patients with low ejection fraction heart failure to restore ventricular viability and function
P. Suwalski, Warsaw

Live fusion of X-ray and Echo for guidance of structural heart procedures
J. Balzer, Düsseldorf

Remote proctoring
M. Glauber, Milan

Natural user interfaces; touchless management of information in sterile environments
J. Perez-Llanos, R. Sádaba; Pamplona

Live-in-a-Box video presentations

Chasing the gold standard: combining advanced technologies in thoracoscopic atrial fibrillation ablation

3D N. Doll, Stuttgart, S Kircher, Leipzig

Transapical implant of diastolic augmentation device
M Glauber, Milan

Durable mechanical cardiac support in failing systemic right ventricle
M Griselli, Newcastle Upon Tyne

Minimally invasive cardiac surgery: 3rd generation left ventricular assist device implant

3D J. Schmitto, Hannover
Delivering value in healthcare: A vision for innovation

Moderators: D. Pagano, Birmingham; P. Van Schil, Edegem (Antwerp)

08:30
From paternalism to partnership
J. Rich, Norfolk

08:50
Getting more from less
B. Keogh, London

09:10
Leadership
D. Wood, Seattle

09:30
Innovation and industry: a new understanding
A. Lansky, New Haven

09:50
Panel discussion

08:00-12:30 Quality Improvement Programme

08:00-09:30 Session 1: EUROMACS

Moderators: R. Hetzer, Berlin;

08:00
Present status of the EUROMACS database
T. de By, The Hague

08:10
Discussion

08:15
Current issues, Imacs/ISHLT cooperation
J. Gummert, Bad Oeynhausen

08:20
Discussion

08:30
The cardiologist’s position in the EUROMACS database
P. Mohacsi, Berne

08:40
Discussion

08:45
The surgeon’s view of the EUROMACS database
T. Krabatsch, Berlin

08:55
Discussion
09:00
Spanish MCS Registry, how it connects to EUROMACS
E Castedo, Madrid

09:10
Discussion

09:15
Permanent isolated right ventricular assist device implantation
Bernhardt, Hamburg

08:30-12:00 Quality Improvement Programme  Amber 3

10:00-12:30 Session 2: Update QUIP Database and Registries
Moderators: B. Keogh, London; D. Pagano, Birmingham

10:00
Value based cardiovascular healthcare: “Meetbaar Beter” Patient value, outcome measures, transparency, quality improvement and sharing best practices.
E Dieter, D. Van Veghel Eindhoven

10:15
Discussion

10:20
The Adult cardiothoracic database: Update and future
D. Pagano, D. Ray, Birmingham

10:50
Discussion

11:00
The EuRADa database: Update and future
E. Weingang, Mainz

11:20
Discussion

11:30
The Congenital database: Update and future
B. Maruszewski

11:50
Discussion

12:00
The Euromacs database: Update and future
T. De By, The Hague

12:15
Discussion

12:20
General Discussion
13:00-15:00  Circulating viewpoints

Paternalism to partnership: sharing the responsibility

*Moderators: A.P. Kappetein, Rotterdam; J. Pepper, London*

**Learning objectives:**
We raise a number of questions, and in the last 5 minutes, assess if we found any answers to the following questions:

* Can we take on high risk cardiothoracic operations within the rules of clinical governance?
* Do we understand the patient-doctor partnership?
* What is the duty of candour?
* Do patients and doctors understand risk?
* Who carries the ultimate responsibility: surgeon or multidisciplinary team group?

**13:00**
Low mortality or failure to rescue  
*S. Westaby, Oxford*

**13:30**
Success from the patient point of view  
*T. Goldsworthy, Tewkesbury*

**14:00**
Doctor please explain the treatment  
*B. Leigh, London*

**14:30**
The risk of high risk surgery  
*F. Mohr, Leipzig*
10:30 - 12:15 Session 1: Coronary - Better decisions better outcome
Moderators: V. Falk, Berlin; R. Yadav, London
Panel: D. Glineur, Bouge; T. Modine, Lille; D. Taggart, Oxford; G. Stefanini, Berne

10:30
Summarizing the recent evidence
S. Head, Rotterdam

10:40
Case 1: What would you do? - Three vessel disease with intermediate Syntax score
T. Modine, Lille

10:45
Panel discussion

11:05
Case 2: What would you do? - Unprotected left main
D. Taggart, Oxford

11:10
Panel discussion

11:30
Lesion based or functional based decision making
F. Casselman, Aalst

11:40
Graft selection, configuration
D. Glineur, Brussels

11:50
Panel discussion

12:00
Anniversary lecture: 50 years first left internal mammary artery bypass operation - a tribute to V.I. Kolesov
A. Nemkov, St Petersburg

12:15-13:00 Break
13:00 - 14:30 Session 2: Aortic valve repair - Replacement early surgery better outcome
Moderators: M. Borger, New York; J. Vanoverschelde, Brussels

13:00
Case 1: Asymptomatic aortic stenosis
R. Sádaba, Pamplona

13:05
Operating for B-type natriuretic peptide and fibrosis in aortic stenosis?
S. Prasad, London

13:20
The role of exercise testing in aortic stenosis
J. Vanoverschelde, Brussels

13:35
The zero tolerance approach for aortic valve replacement
M. Antunes, Coimbra

13:50
Decreasing invasiveness in aortic valve surgery
M. Glauber, Milan

14:05
Repair of the bicuspid valve
G. El Khoury, Brussels

14:20
Panel discussion

14:30 - 16:30 Session 3: Mitral valve repair - Replacement - better surgery better outcome
Panel: O. Alfieri, Milan; P. Lancellotti, Liege; P. Perier, Bad Neustadt/Saale; J. Seeburger, Leipzig

14:30
Introductory lecture
J. Seeburger, Leipzig

14:40
Case 1: Ischemic mitral regurgitation
R. Yadav, London

14:45
Mitral regurgitation surgery in patients with ischemic cardiomyopathy and ischemic mitral regurgitation: factors that influence survival
O. Alfieri, Milan

14:55
Panel discussion

15:10
Case 2: Anterior leaflet prolapse
J. Kluin, Utrecht

15:15
It's all about the chords
L. Müeller, Innsbruck

15:25
Panel discussion
15:35
How to preserve a calcified mitral valve
C. Huber, Berne

15:40
The rocky mitral valve
T. Chotivatanapong, Nonthaburi

15:50
Panel discussion/case resolution

16:00
Case 4: Paravalvular leakage never happens to me
R. Sádaba, Pamplona

16:05
Better management of paravalvular leakage
F. Maisano, Zürich

16:15
Panel discussion

This session is supported by an unrestricted educational grant from St. Jude Medical
Perfusion Programme

10:30–12:00 Session 1: Improving perfusion Part 1
Moderators: F. Merkle, Berlin; A. Wahba, Trondheim

10:30
Venous drainage during coronary pulmonary bypass: common problems and innovative solution
L. Von Segesser, Lausanne

11:00
Oxidative stress during extra-corporeal circulation - theory and practical consequences
G. Angelini, Bristol

11:20
Arterial cannula design and aortic wall stress
A. Assmann, Dusseldorf

11:40
Communication in extra-corporeal circulation
A. Wahba, Trondheim

12:00-13:00 Break

13:00 - 14:30 Session 2: Improving perfusion Part 2
Moderators: B. H. Walpoth, Geneva; T. Gudbjartsson, Reykjavik

13:00
Prediction of mortality following extra corporeal membrane oxygenation
T. Bull Enger, Trondheim

13:20
The challenges of open heart surgery in developing countries
B. Falase, Lagos

13:40
The use of antibiotics in extra-corporeal circulation: pharmacokinetics and practical consequences
G. Wiesner, Munich

14:00
Treatment of hypothermia with extra-corporeal circulation – the international hypothermia regulatory
B. Walpoth, Geneva

14:45 - 16:15 Session 3: Transplantation and organ assist
Moderators: J. Horisberger, Le Mont sur Lausanne; B. Meyns, Leuven

14:45
Ex vivo lung perfusion from concept to current practice
S. Steen, Lund

15:05
Donation following circulatory determination of death – more lungs available for transplantation?
J. Dark, Newcastle Upon Tyne
15:25 Mechanical circulatory support in acute myocardial infarction.
B. Meyns, Leuven

15:45 Ventricular assist device implantation with or without extra-corporeal circulation
T. Krabatsch, Berlin

10:30 - 16:30 Postgraduate Education

Basic Science Programme

10:30 - 12:00 Session 1: Antimicrobial peptides and tissue engineering
Moderators: M. Mildner, Vienna; K. Wollert, Hannover

10:30 Antimicrobial peptides in epithelial layers: Relevance for the skin and the thoracic cavity
M. Mildner, Vienna

11:00 Biofabrication in cardiovascular surgery
A. Haverich, Hannover

11:30 Bioreactor and tissue-engineered trachea - From bench to bedside: The Wuerzburg experience
M. Steinke, Würzburg

12:00-13:00 Break

13:00 - 14:30 Session 2: The paracrine option of stem cells and mononuclear cells: from bench to bedside
Moderators: A. Haverich, Hannover; M. Pavone-Gyöngyösi, Vienna

13:00 Paracrine mechanisms: a paradigm shift in cell therapy for heart disease
M. Gnecchi, Pavia

13:30 Secretome of stressed mononuclear cells is effective in acute experimental infarction and chronic ischemic left ventricular dysfunction: from porcine acute myocardial infarction model to molecular biology
M. Pavone-Gyöngyösi, Vienna

14:00 Secretome of stressed mononuclear cells augment wound healing: from bench to general medical practice production to phase I
H. J. Ankersmit, Vienna

14:45 - 16:30 Session 3: Preconditions for healing ischaemic tissue: an introduction to clinical reality

14:45 How to communicate applied science to the media
S. Barbour, Newcastle
15:10
Myocardial infarction, inflammation, and therapy: from cell based therapy to single molecule
K. Wollert, Hannover

15:40
Microvascular obstruction, reperfusion injury and inflammation: the culprit lesion
D. Chambers, London

16:05
Patient-specific induced pluripotent stem cells for heart regeneration and disease modelling
K. Guan, Göttingen

10:30-16:00 Postgraduate Education
Amber 8

Understanding on valve diseases management in Latin America

10:30
Opening Remarks
J. L. Pomar, Barcelona

10:35
Hospital & Surgeons poll results
J D Maldonado, Bogota

10:45-12:00 Session 1: Mitral disease in Latin America: Repair vs. replacement
Panel: M Antunes\textsuperscript{1}, J S Jaramillo\textsuperscript{2}, J Mejia\textsuperscript{3}, G Vaccarino\textsuperscript{4}, \textsuperscript{1}Coimbra, (Portugal); \textsuperscript{2}Medellin, (Colombia), \textsuperscript{3}Fortaleza, (Brazil), \textsuperscript{4}Buenos Aires, (Argentina)

12:15-13:00 Break

13:00-14:00: Session 2: Etiology and current treatment of aortic and mitral disease in Latin America
Panel: T Salerno\textsuperscript{1}, F Carrillo\textsuperscript{2}, J Calderon\textsuperscript{3}, F Jatene\textsuperscript{4}, \textsuperscript{1}Miami, USA \textsuperscript{2}Mexico DF, (Mexico), \textsuperscript{3}Bucaramanga, (Colombia), \textsuperscript{4}Sao Paulo, (Brazil)

14:00-15:00 Session 3: Transcatheter aortic valve implantation in Latin America: is it something we can afford?
Panel: M Arrais\textsuperscript{1}, M. I. Howard\textsuperscript{2}, V Bapat\textsuperscript{3}, G. LaForgia\textsuperscript{4}, \textsuperscript{1}Sao Paulo, (Brazil), \textsuperscript{2}Santiago, (Chile), \textsuperscript{3}London, (UK), \textsuperscript{4}Caracas, (Venezuela)

15:00-15:50 Session 4: Education and valve disease: awareness and referral patterns
Panel: A Lorenzo\textsuperscript{1}, V Herrera\textsuperscript{2}, W Gomes\textsuperscript{3}, A Stockins\textsuperscript{4}, \textsuperscript{1}Montevideo, (Uruguay), \textsuperscript{2}Mexico DF, (Mexico), \textsuperscript{3}Sao Paulo, (Brazil), \textsuperscript{4}Concepcion, (Chile)

15:50
Closing remarks
J.L. Pomar, Barcelona
Nurse, Nurse Practitioners and Physician Assistants Programme

10:15 - 12:00 Session 1
Moderators: C. Bannister, Southampton; T. Bartley, Birmingham; D. Bordinggaard, Odense; M. Brunott, Rotterdam; L. L. Haus, Odense

10:15
Welcome and opening
J. L. Pomar, Barcelona

10:20
Warm to the core; a quantitative study of the effect of pre-warming on inadvertent perioperative hypothermia
C. Rosenkilde, Odense

10:45
Mesothelioma: options and challenges
A. Maat, Rotterdam

11:10
BiPAP versus optiflow in hypoxemic patients after Cardiothoracic surgery (the BiPOP study)
F. Stephan, Le Plessis Robinson

11:35
The Columbia model: The physician assistant procurement surgeon
J. Costa, New York

12:00-13:00 Break

13:00 - 14:00 Session 2
Moderators: C. Bannister, Southampton; T. Bartley, Birmingham; D. Bordinggaard, Odense; M. Brunott, Rotterdam; L. L. Haus, Odense

13:00
Surgical treatment of atrial fibrillation
B. P. Van Putte, Nieuwegein

13:20
Endoscopic vein harvesting
R. de Jong, Zwolle

13:40
Extra-corporeal membrane oxygenation
J. Fowles, Cambridge

14:00 - 15:00 Session 3
Moderators: C. Bannister, Southampton; T. Bartley, Birmingham; D. Bordinggaard, Odense; M. Brunott, Rotterdam; L. L. Haus, Odense

14:00
Modified early warning score; experience of nurses
J. Quigley, Cambridge

14:20
Multimodal analgesic treatment for patients undergoing VATS
A. Maat, Rotterdam
An evaluation of a frailty tool for pre-op patient and the patient’s conceptualization of their own frailty

M. Roberts, Liverpool

15:00 - 16:00 Nurses session 4

Moderators: C. Bannister, Southampton; T. Bartley, Birmingham; D. Bordinggaard, Odense; M. Brunott, Rotterdam; L. L. Haus, Odense

15:00

Cardiopulmonary resuscitation after cardiac surgery, theory and practice

J. Dunning, Middlesbrough

10:30-16:30 Professional Development Suite 4

Teach the teacher

10:00–13:00 Session 1:

Moderator: I Smith, London

Learning objectives: An important part of every surgeon’s life is the ability to take on the teaching role in a number of different capacities to support others to achieve and create a better service for their patients. Teaching others is a skill which many aspire to, but don’t always fulfil. The aim of this programme is to give the tools and techniques to ensure teachers are competent to deliver first class education in a practical way.

By the end of this programme, delegates can:

- Describe the five stages of the teaching process.
- Present their learning objectives with performance and measures.
- Explain the need for texture and structure in teaching.
- Deliver a validated learning session using at least three trainer behaviours.

Continuous perfusion of saphenous vein by oxygenated blood during beating heart coronary surgery

10:00

Introductions: Who you are. Your teaching experience. What you want to gain from the day

10:30

Learning styles and teaching: Learning styles. Overcoming barriers to learning

11:15 Break

11:30

The Teaching Process: Why learning objectives are important. Designing your session to engage your learners. Texture of content. Delivering for optimal impact. Your platform skills. Measuring your teaching effectiveness – validation

12:15


13:00-14:00 Break

14:00–16:30 Session 2: Teach the teacher

Moderators: Ian Smith, London

14:00

What have you learned? Short observed training sessions and feedback. Actions for personal development

16:15

Final remarks and close
08:15 - 09:45 Session 1: Understanding the mitral valve

Moderators: W.C. Hargrove, Philadelphia; R. Lorusso, Brescia
Panel: G. Dahle, Oslo; R. Dion, Genk; G. Dreyfus, Monte-Carlo; R. Lange, Munich

08:15
Anatomy of the mitral valve
H. Muresian, Bucharest

08:30
Pathophysiology and natural history of functional mitral regurgitation
M. Sitges, Barcelona

08:40
Assessment of functional mitral regurgitation
J. Vanoverschelde, Brussels

08:50
Live surgery
M. Borger, New York

09:10
Coronary revascularization alone or with mitral valve repair
W.C. Hargrove, Philadelphia

09:25
Wrap up

10:15 - 11:45 Session 2: Understanding the mitral valve

Moderators: W.C. Hargrove, Philadelphia; R. Lorusso, Brescia
Panel: G. Dahle, Oslo; R. Dion, Genk; G. Dreyfus, Monte-Carlo; R. Lange, Munich

10:15
Leaflet and chordal procedures in functional mitral regurgitation
R. Lange, Munich

10:30
Safety and feasibility of a new adjustable mitral annuloplasty ring: A multicentre European experience
M. Andreas1, A. Kocher1, S. Livesey2, M. Castella3, F. Casselman4, N. Doll5, C. Bannister2, D. Pereda2, G. Laufer1, M. Czesla5; 1Vienna (Austria), 2Southampton (UK), 3Barcelona (Spain), 4Aalst (Belgium), 5Stuttgart (Germany)
Discussant: R. Cordoba, Cordoba

10:45
Prosthesis–patient mismatch due to small ring annuloplasty in patients with degenerative mitral insufficiency
N. Kawamoto1, T. Fujita1, H. Hata2, Y. Shimahara2, S. Sato2, J. Kobayashi2; 1Suita (Japan), 2Osaka (Japan)
Discussant: J. Grau, Ridgewood

11:00
Artificial chordae in a variety of leaflet prolapses: Different approaches using the folding leaflet technique
R. Garcia Fuster, F. Paredes, A. Mena, M. Juez, O. Gil, F. Hornero, J. Martínez-León; Valencia (Spain)
Basic Science: Conduits and myocardial ischaemia

**Moderators:** D. J. Chambers, London; A. Diegeler, Bad Neustadt

**Learning objective:** To learn about preclinical evidence of new organs and graft protection methods

**08:15 007** Decreased DNA disruption in the porcine neocortex with erythromycin preconditioning during prolonged hypothermic circulatory arrest: Evidence for neuroprotection

*C. Koutsogiannidis*¹, O. Ananiadou¹, F. Ampatzidou¹, D. Mytilinaios², T. Troupis², A. Charchanti³, G. Drossos¹, E. Johnson²; ¹Thessaloniki (Greece), ²Athens (Greece), ³Ioannina (Greece)

**Discussant:** T Kofidis, Singapore

**08:30 008** RNase1 as a potential mediator of remote ischaemic preconditioning for cardioprotection

*A. Boening, B. Niemann, P. Grieshaber, K. Preissner, H. Cabrera-Fuentes; Giessen (Germany)*

**Discussant:** C. Heilmann, Freiburg

**08:45 009** Levosimendan impairs ATP production by limitation of electron transport chain function followed by loss of Ca²⁺ retention capacity in healthy myocardial mitochondria and during ischaemia reperfusion injury

*S. Sommer, M. Leistner, I. Aleksic, C. Schimmer, K. Alhussini, R. Leyh, S. Sommer; Würzburg (Germany)*

**Discussant:**

**09:00 010** Endoscopic vein harvesting is associated with increased endothelial microparticle secretion: A randomised ex-vivo analysis

*B. Krishnamoorthy, J. Tsang, W. Critchley, N. Yonan, J. Fildes; Manchester (UK)*

**Discussant:** S. Large, Elsworth

**09:15 011** What is the source of anticontractile factor released by the pedicle of human internal thoracic artery?

*K. Kociszewska, M. Malinowski, P. Czekaj, M. Deja; Katowice (Poland)*

**Discussant:** A. Franco-Cereceda, Stockholm

**09:30 012** Inhibition of restenosis of the vein graft with degradable PLGA vascular external sheaths with slow-release bosentan

*P. Xie, T. Gu, E. Shi; Shenyang (China)*

**Discussant:** D. Taggart, Oxford
Small incisions and sutureless valves: A perfect marriage

**Moderators:** M. Amrani, Harefield; S. Cánovas, Murcia

**Learning objectives:** Do sutureless valves make a difference?

08:15 013
European multicentre experience with sutureless Perceval valve: Clinical and haemodynamic outcomes up to 5 years in over 700 patients

M. Shrestha¹, F. Laborde², T. Carrel³, T. Fischlein⁴, B. Meuris⁵, F. Madonna⁶, M. Misfeld⁷, A. Haverich⁸; ¹Hannover (Germany), ²Paris (France), ³Berne (Switzerland), ⁴Nuremberg (Germany), ⁵Leuven (Belgium), ⁶Pessac (France), ⁷Leipzig (Germany)

**Discussant:** G. Dellgren, Gothenburg

08:30 014
Right anterior mini-thoracotomy for isolated aortic valve replacement: Ten-year experience in 484 patients

M. Glauber¹, D. Gilmanov¹, A. Miceli¹, P. Farneti¹, M. Ferrarini², M. Murzi³, F. Chiaramonti³, M. Solinasv; ¹Massa (Italy), ²Milan (Italy)

**Discussant:** C. Huber, Berne

08:45 015
Propensity score analysis of outcomes following minimally invasive versus conventional aortic valve replacement

S. Shehada, B. Voss, Y. Elhmidi, O. Öztürk, R. Guenzinger, M. Wottke, R. Lange, D. Mazzitelli; Munich (Germany)

**Discussant:** F. Benetti, Rosario

09:00 016
Sutureless aortic valves save hospital costs when compared to traditional valves

B. Meuris¹, P. Verbrugghe¹, S. Sainte¹, H. De Praetere¹, F. Rega¹; ¹Leuven (Belgium), ²Rotselaar (Belgium)

**Discussant:** F. Eckstein, Basel

09:15 017
Aortic valve replacement through an anterior right mini-thoracotomy with central aortic cannulation is safe

D. Hui, M. Bowdish, J. Cleveland, R. Ranjan, R. Sinha, C. Baker, M. Cunningham, V. Starnes; Los Angeles (USA)

**Discussant:** M. Amrani, Harefield

09:30 018
Clinical and haemodynamic outcomes in 658 patients receiving the Perceval sutureless aortic valve: Early results from a prospective European multicentre study (CAVALIER trial)

F. Laborde¹, T. Fischlein², K. Hakim-Melbodi², M. Misfeld³, T. Carrel³, M. Zembala⁴, B. Meuris⁵, A. Haverich⁵; ¹Paris (France), ²Nuremberg (Germany), ³Bad Oeynhausen (Germany), ⁴Leipzig (Germany), ⁵Berne (Switzerland), ⁶Tarnowskie Góry (Poland), ⁷Leuven (Belgium), ⁸Hannover (Germany)

**Discussant:** A. Repossini, Brescia
Left ventricular assist devices: Softening the blow

Moderators: F. Beyersdorf, Freiburg; J. Rich, Norfolk

Learning objectives:
New techniques for left ventricular assist device implantation and results of minimally invasive left ventricular assist device implantation

08:15
How can we reduce the morbidity of ventricular assist device support?
J. Rich, Norfolk

08:30 019
Is antiplatelet therapy required in HeartMate II patients: Preliminary results from the European TRACE study
J. Schmitto¹, P. Litzler², M. Berchtold-Herz³, E. Flecher⁴, D. Zimpfer⁵, L. Damme⁶, K. Sundareswaran⁷, I. Netuka⁸; ¹Hannover (Germany), ²Rouen (France), ³Freiburg (Germany), ⁴Rennes (France), ⁵Vienna (Austria), ⁶Huntingdon (UK), ⁷Pleasanton (USA), ⁸Prague (Czech Republic)
Discussant: C. Knosalla, Berlin

08:45 020
Minimally invasive surgical and anaesthetic approach for ventricular assist device implantation: A single-centre experience
T. Bottio¹, J. Bejko¹, G. Bortolussi¹, R. Bianco¹, G. Falasco¹, D. Pittarello², V. Tarzia¹, G. Gerosa³; ¹Padua (Italy), ²Padova (Italy)
Discussant: Y. Saiki, Sendai

09:00 021
Are all continuous flow left ventricular assist devices equal on platelet activation and inflammatory response? A comparison of centrifugal versus axial flow pump
V. Tarzia¹, G. Bortolussi¹, V. Penzo¹, J. Bejko¹, M. Gallo¹, R. Bianco¹, T. Bottio¹, G. Gerosa²; ¹Padua (Italy), ²Padova (Italy)
Discussant: L. Maroto, Valladolid

09:15 022
Novel minimally invasive decommissioning of HeartWare left ventricular assist device following myocardial recovery
N. Wrightson, N. Robinson-Smith, T. Butt, B. Ramesh, F. Oezalp, G. MacGowan, A. Donado, S. Schueler; Newcastle upon Tyne (UK)
Discussant: G. Gerosa, Padua

09:30 023
First results of 111 minimally-invasive left ventricular assist device implantations at a single centre
J. Schmitto, S. Rojas, M. Avsar, J. S. Hanke, D. Berliner, C. Bara, J. Bauersachs, A. Haverich; Hannover (Germany)
Discussant: M. Scherer, Muenster
Prediction: art or science

Moderators: F. Barili, Cuneo; S. Grant, Manchester

Learning objectives:
Understanding risk prediction and predicting short and long-term outcome

08:15
Risk prediction for dummies
D. Pagano, Birmingham

08:30 024
Improved prediction by dynamic modelling: An exploratory study in the adult cardiac surgery database of the Netherlands Association for Cardio-Thoracic Surgery
S. Siregar¹, D. Nieboer², Y. Vergouwe³, M. Versteegh¹, L. Noyez³, A. Vonk⁴, E. Steyerberg², J. J. M. Takkenberg³; ¹Leiden (Netherlands), ²Rotterdam (Netherlands), ³Nijmegen (Netherlands), ⁴Amsterdam (Netherlands)
Discussant: A. Rastan, Rotenburg

08:45 025
National administrative data produces a very accurate risk prediction model for short- and long-term mortality following cardiac surgery
D. Aktuerk¹, D. McNulty², V. Barnett², N. Freemantle², D. Ray², D. Pagano²; ¹Leamington (UK), ²Birmingham (UK)
Discussant: D. Holzhey, Leipzig

09:00 026
Validation and quality measurements for EuroSCORE and EuroSCORE II in the Spanish population: A prospective and multicentre study
A. Garcia-Valentin¹, C. Mestres², E. Bernabeu¹, I. Martin³, C. Rueda³, A. Domenech³, J. Valencia³, D. Fletcher³; ¹Alicante (Spain), ²Barcelona (Spain), ³Valencia (Spain)
Discussant: S. Nashef, Cambridge

09:15 027
The EuroSCORE: A neglected measure of medium-term survival following cardiac surgery
A. Habib¹, A. Dhanji², S. Mansour³, A. Wood², W. Awad²; ¹Birmingham (UK), ²London (UK), ³Cairo (Egypt)
Discussant:

09:30
How to use data to improve global outcome or perhaps analyzing data for better and safer health care”
D. Ray, Birmingham
08:15-09:45  Focus Session  Botticelli

Extracorporeal support - When all else fails

Moderators: G. Lebreton, Paris; G. Trummer, Freiburg

08:15
Extracorporeal support in acute heart failure
J. Gummert, Bad Oeynhausen

08:30
Video: The conscious extracorporeal membrane oxygenation patient
G. Warnecke, Hannover

08:45
Optimal drainage
S. Price, London

09:00
The art of weaning
J. Kluin, Utrecht

09:15
Off site extracorporeal support
F. Collart, Marseille

09:25
Right ventricular assist device and extracorporeal membrane oxygenation
M. Siepe, Freiburg

09:40
Wrap up
G. Trummer, Freiburg

08:15-09:45  Abstract Rapid Response Session  Brown 3

Adult cardiac rapid response 1

Moderators: V. Falk, Berlin; A. P. Kappetein, Rotterdam

08:15  067-I
Treatment of aortic valve stenosis: Five years of experience with an integrated 360° approach in a high-volume centre
M. Wilbring, T. Taut, K. Ibrahim, K. Matschke, U. Kappert; Dresden (Germany)

08:24  068-I
Clinical and haemodynamic outcomes in 804 patients receiving the Freedom SOLO stentless aortic valve: Results from an international prospective multicentre study
H. Grubitzsch1, S. Wang1, K. Matschke2, M. Glauber3, D. Heimansohn4, E. Tan5, K. Francois6, M. Thalmann7; 1Berlin (Germany), 2Dresden (Germany), 3Massa (Italy), 4Indianapolis (USA), 5Eindhoven (Netherlands), 6Ghent (Belgium), 7Vienna (Austria)

08:33  069-I
Surgery in aortic valve regurgitation and left ventricle dysfunction
P. Correia, G. Freitas Coutinho, R. Pancas, M. Antunes; Coimbra (Portugal)
TRIBECA study: (TRI)fecta (B)ioprostheses (E)valuation versus (C)arpentier Magna-Ease in (A)ortic position

A. Colli, R. DiBartolomeo, D. Mangino, A. Pardini, M. Agrifoglio, T. Gherli, J. M. Amorim, G. Gerosa, Padua (Italy), Bolonia (Italy), Mestre (Italy), Terri (Italy), Milan (Italy), Parma (Italy), Porto (Portugal), Padova (Italy)

Durability after aortic valve replacement with the Mitroflow versus the Perimount pericardial bioprosthesis: Single-centre experience in 2393 patients

P. Nielsen, K. Terp, H. H. Kimose, I. S. Modrau, H. Jensen, M. Smerup, V. Hjortdal, S. Nielsen; Aarhus (Denmark)

Morphologic and functional consequences of transradial coronary angiography on the radial artery: Implications for use as a bypass conduit

A. Leone, M. Gaudino, A. Lupascu, A. Mazza, R. Flore, A. Toesca, P. Tondi, M. Massetti; Rome (Italy)

Off-pump coronary artery bypass reduces early stroke in octogenarians: A meta-analysis of 18,000 patients

S. E. Altarabsheh, S. Deo, A. Rabab, V. Sharma, J. Y. Lim, Y. H. Cho, S. Park, Amman (Jordan), Surat (India), Irbid (Jordan), York (USA), Seoul (Korea), Cleveland (USA)

Pressure-controlled vein graft flushing results in superior histological quality: A randomised trial

M. Arsalan, S. Bader, H. Baumgarten, J. Blumenstein, H. Möllmann, C. Troidl, T. Walther, J. Kempfert; Bad Nauheim (Germany)

Acute coronary angiography for myocardial ischaemia after coronary artery bypass grafting

K. Hultgren, A. Andreasson, T. Axelson, P. Albertsson, V. Lepole, A. Jeppsson; Gothenburg (Sweden), Reykjavik (Iceland), Goteborg (Sweden)

Sutureless aortic valve replacement with a Perceval S prosthesis: Three-year single-centre experience in 390 patients

M. Glauber, D. Gilmanov, P. Farneti, M. Ferrarini, E. Kallushi, A. Miceli, A. Cerillo, M. Solinas; Massa (Italy), Milan (Italy)

Work in progress

Moderators: F. Kari, Freiburg; J. Maessen, Maastricht

The protective, anti-inflammatory and pro-regenerative effect of nitric oxide inhaled into oxygenator during Fontan procedure in single ventricle patients

M. Borowka, J. Kolcz, E. Karnas, E. Zuba-Surma, W. Stycula, J. H. Skalski; Kraków (Poland)

The impact of pre-sensitization on post heart transplantation outcome in the era of mechanical circulatory support devices

M. Urban, J. Pirk, T. Gazdic, O. Szarszoi, I. Netuka; Prague, (Czech Republic)
The impact of a second arterial graft on 5-year outcomes after coronary artery bypass grafting in the Syntax trial and registry

C.A. Parasca¹, S. Head¹, M.J. Mack², M.C. Morice³, D.R. Holmes Jr⁴, T. Feldman⁵, A. Colombo⁶, A.P. Kappetein¹; ¹Rotterdam (Netherlands), ²Plano (USA), ³Paris (France), ⁴Rochester (USA), ⁵Evaston (USA), ⁶Milan (Italy)

The Development of a Large Animal Model of Post Pneumonectomy Pulmonary Hypertension.

E. Kapetanakis¹, A. Papalois², F. Konstantinou², I. Diamantis², P. Caimmi³, M. Konstantinou²; ¹Crete (Greece), ²Athens (Greece), ³Novara (Italy)

A Novel Knot-tying Training Simulator Providing Real-time Pressure Sensing Feedback

J. Wong¹, A. Martellaro², D. Joshi³, D. Liu⁴, C. Lee¹, H. Gorea², J. Sauer², P. Knight¹; ¹Rochester (United States of America), ²Victor (United States of America), ³Rochester, NY (United States of America), ⁴Boston, MA (United States of America)

A smartphone/tablet app to assist thoracic endovascular aortic repair

B. Rylski¹, F. Beyersdorf¹, F. Karl¹, M. Südkamp¹, W. Euringer¹, M. Czerny², M. Siepe¹; ¹Freiburg (Germany), ²Zurich (Switzerland)

**08:15-09:45  Simulation Session**

Endoscopic port-access mitral valve repair drylab training using high-fidelity simulators

*Moderator: P Sardari Nia, Maastricht*

**Learning objectives:** Gain familiarity and knowledge in the instrumental necessities for endoscopic mitral valve repair

Practice and learn the basic techniques in endoscopic surgery for mitral valve repair on high-fidelity simulators

Mitral valve repair using annuloplasty ring and neochords on high-fidelity simulators

True simulated physical model of endoscopic port-access set-up whereby the operator can train from the basic technique to full complex repairs.

Disposable mitral valves and papillary muscles that have been created out of material resembling the physical characteristics of connective tissue giving the operator a true experience

The simulator can provide feedback regarding the length and depth of each stitch on the mitral valve annulus with a picture of each created stitch. The operator can hone his/her skills based on pre-set parameters of length and depth.

The simulator can be used for the following approaches:

- Minimally invasive mitral valve repair endoscopically
- Minimally invasive mitral valve repair through direct vision
- Minimally invasive mitral valve repair with robotic-assistance using the ports
- Conventional mitral valve repair by opening the thorax

Each Session is restricted to 12 participants.

Registration: €70 per session. Registration should be made online via the EACTS user area or at the registration desks on site.

*This session is supported by an unrestricted educational grant from Medtronic*
Transcatheter aortic valve implantation: Today’s routine
Moderators: H. Treede, Hamburg; N. Van Mieghem, Rotterdam

10:15
Valve in valve transcatheter aortic valve implantation - implications for choice of initial surgical bioprosthesis
N. Moat, London

10:25
Video: Where valves can go
C. Huber, Berne

10:35
Discussion

10:40 051
Marginal differences between full and partial sternotomy and transcatheter aortic valve replacement: A EuroSCORE matched analysis
D. Camboni, C. Ricci, K. Debl, Y. Zausig, B. Floerchinger, M. Hilker, C. Schmid; Regensburg (Germany)
Discussant: M. Amrani, Harefield

10:55 052
Conventional aortic valve replacement or transcatheter aortic valve implantation in patients with previous cardiac surgery
D. Wendt, F. Al-Rashid, P. Kahlert, K. El-Chilali, E. Demircioglu, R. Erbel, H. Jakob, M. Thielmann; Essen (Germany)
Discussant: N. Moat, London

11:10 053
Trends in surgical aortic valve replacement in more than 3000 consecutive cases in the era of transcatheter aortic valve implantation
M. Silaschi, L. Conrad, M. Seiffert, U. Schäfer, H. Treede, S. Blankenberg, H. Reichenspurner; Hamburg (Germany)
Discussant: T. Modine, Lille

11:25 054
Patient-prosthesis mismatch: clinical and haemodynamic outcome of redo patients undergoing transcatheter aortic valve-in-valve implantation versus sutureless aortic valve replacement
L. Pietsch¹, G. Santarpino², F. Pollari², J. Sirch¹, F. Vogt¹, S. Pfeiffer¹, T. Fischlein¹; ¹Nuremberg (Germany), ²Schwanstetten (Germany), ³Berlin (Germany)
Discussant: Y. Abu-Omar, Cambridge

11:40
Wrap up
T. Walther, Bad Nauheim
Concomitant atrial fibrillation ablation: Refining the standards

Moderators: N. Ad, Falls Church; S. Nashef, Cambridge

10:15 055
Electrophysiological findings and long-term outcomes of percutaneous ablation of atrial arrhythmias after surgical ablation for atrial fibrillation

C. Trumello, A. Pozzoli, P. Mazzone, S. Nascimbene, P. Della Bella, O. Alfi eri, S. Benussi; Milan (Italy)

Discussant: N. Ad, Falls Church

10:30 056
Concomitant surgical ablation for atrial fibrillation in patients with significant atrial dilation greater than fifty-five millimetres: Worth the effort?

S. Pecha, T. Ahmadzade, S. Willems, H. Reichenspurner, F. Wagner; Hamburg (Germany)

Discussant: T. Weimar, Stuttgart

10:45 057
Dilated left atrium as predictor of late outcome after pulmonary vein isolation concomitant with aortic valve replacement and/or coronary artery bypass grafting

S. Kainuma1, M. Mitsuno2, K. Toda3, S. Miyagawa4, T. Funatsu5, K. Taniguchi6, Y. Miyamoto6, Y. Sawa7; 1Sakai (Japan), 2Nishinomiya (Japan), 3Suita (Japan), 4Osaka (Japan), 5Sakai city (Japan)

Discussant: J. Obadia, Lyon

11:00 058
Better sinus rhythm restoration and congestive heart failure protection of left atrium volume reduction in a giant left atrium

J. H. Kim1, C. Na1, Y. K. Choi2, S. J. Lee2; 1Daegu (Korea), 2Bucheon (Korea)

Discussant: F. Casselman, Aalst

11:15 059
Long-term results of concomitant video-assisted minimally invasive atrial fibrillation cryoablation validated by clinical and electrophysiological assessment

G. Marchetto, M. Anselmino, S. Mancuso, C. Rovera, M. Antolini, M. Morello, F. Gaita, M. Rinaldi; Turin (Italy)

Discussant: A. Weber, Berne

11:30 060
Concomitant surgical closure of the left atrial appendage in patients with atrial fibrillation reduces risk for postoperative thrombo-embolic events and improves survival

M. Wilbring, F. Jung, K. Matschke, M. Knaut; Dresden (Germany)

Discussant: S. Salzberg, Zürich
High risk surgery

Moderators: R. M. Suri, Rochester; B. M. Fabri, Liverpool

Learning objectives:
To assess the impact on surgical outcome of usual and unusual comorbidities

10:15 061
Short- and long-term outcomes (including quality of life) after cardiac surgery in patients with postoperative acute kidney injury
Discussant: G. Trummer, Freiburg

10:30 062
Patients with lupus erythematosides and antiphospholipid syndrome undergoing cardiac valve surgery
R. Anif, P. Seppelt, M. Farag, M. Zaradzki, A. Ruhpwar, M. Karck, K. Kallenbach; Heidelberg (Germany)
Discussant: C. Mestres, Abu Dhabi

10:45 063
When size matters: obesity paradox and parallax for cardiac surgery patients. Analysis of 3977 patients and review of the literature
M. Zeinah1, H. El-Nady1, S. Shah1, D. Ngaage2; 1Basildon (UK), 2Leeds (UK)
Discussant: F. Barilli, Cuneo

11:00 064
Outcome of cardiosurgical patients influenced by Parkinson’s disease
M. Vondran, M. Mende, M. Sauer, M. Aydin, F. Bakhtyari, F. Mohr, T. Schroeter; Leipzig (Germany)
Discussant: S. Siregar, Leiden

11:15 065
Preoperative renal dysfunction/failure affects the short- and long-term survival significantly after cardiac surgery: Thirteen-year experience of a single centre
S. S. A. Qadri1, A. Barua2, M. Chaudhry3, M. Jarvis2, A. Cale3, M. Cowen3, M. Loubani2; 1Wakefield (UK), 2Hull (UK), 3Cottingham (UK)
Discussant: L. Noyez, Nijmegen

11:30 066
Early treatment with non-heparin based anticoagulants in patients with heparin-induced thrombocytopenia reduces 30-day mortality after cardiac surgery
C. Roesch, J. Hoerer, J. Kasnar-Samprec, R. Lange, J. Weipert; Munich (Germany)
Discussant: F. Pappalardo, Milan
Health Technology

Moderators: S. Livesey, Southampton; M. J. Underwood, Hong Kong

10:15
Harvi iPad App (Fundamentals of Hemodynamics)
D. Burkhoff, New York

10:45
Remote Proctoring Software (Seelight)
M. Glauber, Milan

11:15
Natural User Interfaces; touchless management of information in sterile environments
R. Sádaba, Pamplona

Rapid deployment aortic valve replacement – does it make a difference?

Moderators: B. K. Podesser, St Polten; B. P. Van Putte, Nieuwegein

10:15
How are patients doing after 3 years? Long-term follow-up from the TRITON Trial
T. Wahlers, Cologne

10:25
Discussion

10:30
What are the advantages of rapid deployment aortic valve replacement in small annulus?
F. Collart, Marseille

10:40
Discussion

10:45
Minimal invasive vs conventional aortic valve repair: results from the randomized, controlled, multi-center CADENCE-MIS Trial
P. Dohmen, Leipzig

10:55
Discussion

11:00
Rapid deployment valves in real life: the pan-European FOUNDATION Study enrolling 500 patients
C. Young, London

11:10
Discussion

11:15
Evolution of minimally invasive surgery: aortic valve replacement and why this is the right time to get involved. Our right thoracotomy experience
G. Laufer, Vienna
11:30
Which patients for which approach?
M. Solinas, Massa

11:40
Discussion

This session is supported by an unrestricted educational grant from Edwards Lifesciences SA

10:15-11:45 Clinical Anatomy Session

10:15 - 11:45 The clinical and surgical anatomy of the right ventricle
H. Muresian, The University Hospital of Bucharest, Bucharest

ABSTRACT. The notable differences both in the general disposition and makeup, as well as in the microscopic structure of the left and right ventricles of the human heart is so well reflected in the physiologic characteristics of each ventricle and not least, in their particular reaction to disease. The precise details of right ventricular anatomy and function are indispensable for a correct interpretation of clinical data and of the particulars offered by the various diagnostic imaging modalities. The development and the gross anatomy of the right ventricle is presented by demonstrating images of dissected human heart specimens selected from a series of 100 adult and pediatric human heart specimens. These are compared with ultrasound, CT and MRI pictures. Human heart specimens are also displayed in a wet-lab session. A particular emphasis is made on the architecture and vascularization of the right ventricle, and of the interventricular septum. Reference is made on surgical procedures such as the Ross and Ross-Konno operations, on the localization and treatment of ventricular septal defects, and respectively, on the surgical and non-surgical procedures in case of right ventricular infarction and failure. The status and the fate of the right ventricle in complex cardiac diseases such as tetralogy of Fallot and transpositions, is further considered, both in the case of operated and non-operated patients. A most complete picture of the right ventricle with clinical and surgical relevance is eventually offered.

10:15-11:45 Focus Session

Pro and Cons debates
Moderators: R. Ermel, Lyon; M. Siepe, Freiburg

10:15
Repair or replacement in ischemic mitral regurgitation - Pro repair
M. Misfeld, Leipzig

10:30
Repair or replacement in ischemic mitral regurgitation - Pro replacement
M. Acker, Philadelphia

10:45
Aneurysm resection and left ventricular reconstruction - Pro
L. Menicanti, Milan

11:00
Aneurysm resection and left ventricular reconstruction - Con
J. L. Pomar, Barcelona
11:15
Hybrid repair of aortic aneurysms versus conventional repair of aortic aneurysm - Pro conventional
J. Bachet, Nogent sur Marne

11:30
Hybrid repair of aortic aneurysms or conventional repair of aortic aneurysms - Pro hybrid
J. Bavaria, Philadelphia

11:50-12:30 The Presidential Address Gold Room
The versatile beauty of the hand: mysterious, powerful and ingenious
P Van Schil, Edegem (Antwerp)

12:45-14:15 Simulation Session da Vinci
Endoscopic port-access mitral valve repair drylab training using high-fidelity simulators
See page 54 for programme details

14:15-14:45 Abstract Session Gold Room
Minimally invasive mitral valve surgery
Moderators: N. Doll, Stuttgart; M. Moon, St Louis

Learning objectives:
Medium and long-term outcomes of minimally invasive mitral valve surgery and long term outcomes of mitral valve repair

14:15
Is minimally invasive mitral valve repair here to stay?
P. Perier, Bad Neustadt/Saale

14:30 090
Video-assisted right mini-thoracotomy versus full sternotomy for isolated mitral valve repair: A propensity-matched comparison
T. Günther, V. Kehl, B. Voss, R. Lange; Munich (Germany)
Discussant: U. Franke, Stuttgart

14:45 091
Twenty-five-year experience of chordal replacement with expanded polytetrafluoroethylene in mitral valve repair
H. Hata¹, T. Fujita¹, Y. Shimahara², S. Sato¹, H. Ueda-Ishibashi¹, J. Kobayashi²; ¹Suita (Japan), ²Osaka (Japan)
Discussant: H. Vetter, Wuppertal

15:00 092
Early and long-term outcomes of minimally invasive mitral valve surgery through right mini-thoracotomy: A ten-year experience in 1604 patients
M. Glauber¹, A. Micei¹, D. Canarutto¹, M. Ferrarini², P. Farneti¹, M. Murzi¹, A. Cerillo¹, M. Solinas¹; ¹Massa (Italy), ²Milan (Italy)
Discussant: U. Von Oppell, Cardiff

Monday 13 October 2014  62  Acquired Cardiac Disease
Surgical treatment of paravalvular leak: Long-term results in a single-centre experience (up to 14 years)
M. Taramasso, F. Maisano, P. Denti, A. Pozzoli, N. Buzzatti, M. De Bonis, G. La Canna, O. Alfieri; 1Milan (Italy), 2Zürich (Switzerland)

Discussant: U. Lockowandt, Stockholm

15:30 094
Off-pump transapical mitral valve repair with neochordae
A. Dayeh, A. Moka, A. Argyroulis, S. Daebritz; Duisburg (Germany)

Discussant: F. Eckstein, Basel

14:15-15:45 Abstract Session

Aortic valve sparing include me, remodel me but spare me
Moderators: L. de Kerchove, Brussels; R. Lange, Munich

14:15
Aortic valve sparing operations in aortic root aneurysms: remodelling, re-implanting: is the debate closed?
R. De Paulis, Rome

14:25
Live-in-a-Box video presentation: - To suture or not to suture: a simplified re-implantation technique
T. Modine, Lille

14:35
Discussion

14:40 095
The role of annulus dimension and annuloplasty in tricuspid aortic valve repair
L. de Kerchove, S. Mastrobuoni, M. O’Keefe, P. Astarci, A. Poncelet, J. Rubay, P. Noirhomme, G. El Khoury; Brussels (Belgium)

Discussant: H. Schäfers, Homburg/Saar

14:55 096
Aortic valve repair in asymptomatic patients with severe aortic valve regurgitation: Long-term results
K. Fattouch, S. Castrovinci, G. Murana, P. Dioguardi, F. Guccione, M. Moscarelli, G. Nasso, G. Speziale; 1Palermo (Italy), 2Bologna (Italy), 3London (UK), 4Bari (Italy)

Discussant: P. Gerometta, Milan

15:10 097
Aortic valvuloplasty for aortic insufficiency
M. Mukaida, K. Kawazoe, J. Koizumi, T. Kamada, J. Tsuboi, A. Ikai, H. Okabayashi; 1Morioka (Japan), 2Tokyo (Japan)

Discussant: E. Lansac, Paris

15:25 098
Long-term results of the David procedure in patients with acute type A aortic dissection
N. Monsefi, A. Miskovic, R. Salem, A. Moritz, A. Zierer; Frankfurt (Germany)

Discussant: A. Hassouna, Cairo

15:40 Wrap up
L. de Kerchove, Brussels
What is the benefit of a radial conduit?

**Moderators:** B. Buxton, Victoria; J. Dunning, Middlesbrough

**Learning objectives:**
Outcomes with radial artery conduit and debate on best third conduit

**14:15**

Is the vein a bad conduit?

G. Angelini, Bristol

**14:30** 099

Is the radial artery associated with improved survival in older patients undergoing coronary artery bypass grafting? A propensity-score analysis of a multicentre experience

W. Shi, P. Hayward, A. Newcomb, J. Fuller, A. Rosalion, J. Tatoulis, B. Buxton; Melbourne (Australia)

**Discussant:** G. Tavilla, Leiden

**14:45** 100

The second best arterial graft to the left coronary system in off-pump bypass surgery: A propensity analysis of the radial artery with a proximal anastomosis to the ascending aorta versus the right internal thoracic artery

H. Tsuneyoshi, T. Komiya, T. Shimamoto; Kurashiki (Japan)

**Discussant:** G. Mecozzi, Enschede

**15:00** 101

Radial artery versus right internal thoracic artery as the best second conduit in multi-arterial coronary artery bypass grafting: A multi-institutional study

T. A. Schwann\(^1\), S. Hashim\(^2\), M. Bonnell\(^1\), S. Badour\(^3\), M. Obeid\(^3\), R. Tranbaugh\(^4\), M. Engoren\(^1\), R. Habib\(^3\); \(^1\)Toledo (USA), \(^2\)New Haven (USA), \(^3\)Beirut (Lebanon), \(^4\)New York (USA)

**Discussant:** J. Tatoulis, Melbourne

**15:15** 102

The effects of using a radial artery in patients already receiving bilateral internal mammary arteries during coronary bypass grafting: 30-day outcomes and 14-year survival in a propensity-matched cohort

J. Grau\(^1\), C. Johnson\(^1\), G. Ferrari\(^2\), R. Shaw\(^1\), M. Brizzio\(^1\), D. Flores\(^1\), D. Mongomery\(^1\), A. Zapolanski\(^1\); \(^1\)Ridgewood (USA), \(^2\)Philadelphia (USA)

**Discussant:** U. Benedetto, Cambridge

**15:30**

Radial or right internal mammary artery?

M. Grimm, Innsbruck
New nuggets from late-breaking clinical trials

Moderators: O. Alfieri, Milan; T. M. Sundt, Boston

14:15
Mitral-valve repair versus replacement for severe ischemic mitral regurgitation
M. Acker, Philadelphia

14:25
Critical review
M. Sitges, Barcelona

14:30
Early surgery vs watchful waiting and outcomes for asymptomatic mitral regurgitation
R. Suri, Rochester

14:40
Critical review
A. Vahanian, Paris

14:45
Mechanical valves - Reduced anticoagulation PROACT (Dabigatran)
J. Puskas, Atlanta

14:55
Critical review
A. P. Kappetein, Rotterdam

15:00
Transcatheter aortic valve implantation with self-expandable valve vs surgical AVR (Pivotal trial)
M. Reardon, Houston

15:10
Discussion

15:15
Still no clear CHOICE for transcatheter aortic valve implantation? Randomized trial
CoreValve vs Sapien (Choice)
M. Sitges, Barcelona

15:25
Discussion

15:30
Reducing blood transfusion following cardiac surgery (TiTRE)
G. Murphy, Leicester

15:40
Critical review
A. Jeppsson, Goteborg
**14:15-15:45 Focus Session**  
**Botticelli**

**Challenges and opportunities in modern atrial fibrillation surgery**  
*Moderators: S. Benussi, Milan; J. Pepper, London*

**14:15**  
Present and future of atrial fibrillation surgery for lone atrial fibrillation: success and limitations of catheter ablation  
*P. Della Bella, Milan*

**14:30**  
Single stage hybrid close-chest stand-alone atrial fibrillation ablation  
*M. La Meir, Brussels*

**14:45**  
Multidisciplinary staged approach to lone atrial fibrillation. Is there still a role for maze surgery?  
*S. Benussi, Milan*

**15:00**  
Why concomitant atrial fibrillation ablation is offered to a minority of patients: Technical aspects and patient selection for a successful treatment  
*S. Nashef, Cambridge*

**15:15**  
Guidelines and real life in atrial fibrillation treatment: time for a change  
*M. Castella, Barcelona*

**15:30**  
Discussion

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**14:15-15:45 Focus Session**  
**Amber 7**

**Challenges in cardiac surgery in emerging economies**  
*Moderators: M. J. Antunes, Coimbra; C. Yankah, Berlin*

**14:15**  
Management of end-stage heart failure in developing countries: Facing the realities and making the options  
*F. Jatene, Sao Paulo*

**14:45**  
Tuberculous constrictive pericarditis: a forgotten pathology  
*A. Ogunrombi, J. A. Okenyi; Ife*

**15:15**  
Infective endocarditis. An increasing challenge in high HIV prevalence populations  
*C. Mestres, Abu Dhabi*
Late Breakers I

Moderators: H. Reichenspurner, Hamburg; T. Walther, Bad Nauheim

14:15  335
Transaortic transcatheter aortic valve implantation – experience from the first multicenter, multinational prospective registry (ROUTE)
M. Romeno1, P. Bramlage2, N. Bonaros3, D. Jagielak4, R. Cocchieri5, A. Heinz3, V. Bapat6; 1Massy (France), 2Cloppenburg (Germany), 3Innsbruck (Austria), 4Gdansk (Poland), 5Amsterdam (Netherlands), 6London (UK)
Discussant: M. Wilbring, Dresden

14:30  336
Suprasternal approach transcatheter aortic valve replacement avoids thoracotomy: First in man experience
A. Kiser1, R. Stack1, W. O’Neill2, E. de Marchena3, M. Zarate4, A. Dager4, M. Reardon5; 1Chapel Hill (USA), 2Detroit (USA), 3Miami (USA), 4Cali (Colombia), 5Houston (USA)
Discussant: C. Huber, Berne

14:45  337
Direct aortic implantation of a self-expanding transcatheter aortic valve leads to favourable outcomes
G. Bruschi1, N. Moat2; 1Milan (Italy), 2London (UK)
Discussant: H. Amrane, Leeuwarden

15:00  338
Transcatheter mitral valve implantation via trans-apical approach: Early experience
L. Sondergaard1, M. Brooks1, N. Ihlemann1, A. Jonsson1, S. Holme2, M. Tang1, K. Terp2, A. Quadri4; 1Copenhagen (Denmark), 2Hellerup (Denmark), 3Aarhus (Denmark), 4Hartford (USA)
Discussant: J. Obadia, Lyon

15:15
Validation of a new method for trial analysis: applying the win ratio to analyze percutaneous coronary intervention versus coronary artery bypass grafting for complex coronary artery disease
M. Mijojevic, Rotterdam

14:15-15:45  Focus Session

Basic Science 1

Moderators: P. Dohmen, Berlin; M. Emmert, Zürich; A. Haverich, Hannover

14:15
Tissue Engineering: where are we now?
P. Dohmen, Berlin

14:30
How to increase scaffold sources?
F. Smit, Bloemfontein

14:45
Bioreactors for tissue engineering
B. Akra, Munich
15:00
Gap junctions and cardiomyocytes
S. Dhein, Leipzig

15:15
Results of tissue engineered vascular grafts
T. Shinoka, Columbus

15:30
Clinical used tissue engineered heart valves
A. Haverich, Hannover

14:15-15:45 Focus Session
Amber 6

Nightmares in cardiothoracic surgery
Moderators: M. Scarci, Cambridge; P. E. Van Schil, Edegem (Antwerp)

14:15
Cardiac
P. Sardari Nia, Maastricht

14:35
Cardiac
F. Mohr, Leipzig

14:55
Thoracic
D. Mathisen, Boston

15:15
Thoracic
P. Van Schil, Edegem (Antwerp)

16:00-17:30 Abstract Session
Gold Room

Left ventricular assist device 2
Moderators: G. Gerosa, Padua, M. Siepe, Freiburg

Learning objectives:
Improving left ventricular assist device therapy and data management in left ventricular assist device therapy

16:00 131
Chronic animal experience with the CARMAT bioprosthetic artificial heart
C. Latremouille1, D. Duveau2, B. Cholley1, L. Zilberstein3, P. Bruneval4, J. Perles4, P. Jansen5, A. Carpentier1; 1Paris (France), 2Nantes (France), 3Maisons-Alfort (France), 4Velizy (France), 5Vélizy Villacoublay (France)
Discussant: G. Dellgren, Gothenburg

16:15 132
Temporary extracorporeal membrane oxygenation support for right ventricular failure after left ventricular assist device implantation
Discussant: E. Ferrari, Lausanne
EUROMACS: A growing EACTS data registry
T. De By, P. Mohacsi, J. Gummert, L. Martinelli, I. Netuka, B. Meyns, R. Hetzer; Berlin (Germany), Bad Oeynhausen (Germany), Milan (Italy), Prague (Czech Republic), Leuven (Belgium), Paris (France)
Discussant: T. Bottio, Padua

Neuron-specific enolase correlates to laboratory markers of haemolysis in patients on long-term circulatory support
C. Heilmann, C. Benk, R. Klemm, G. Trummer, M. Berchtold-Herz, F. Beyersdorf, U. Geisen; Freiburg (Germany)
Discussant: H. Najm, Riyadh

Technical aspects of coronary bypass graft surgery
Moderators: D. Glineur, Bouge; M. Reardon, Houston

The way we graft now
B. Buxton, Melbourne

Video: The ideal Y-Graft
N. Doll, Stuttgart

Discussion

Coronary artery bypass surgery without cardioplegia: Early results in 8515 patients
P. Antunes, J. Oliveira, D. Prieto, G. Freitas Coutinho, P. Correia, C. Branco, M. Antunes; Coimbra (Portugal)
Discussant: P. Sergeant, Leuven

Impact of sequential bypass grafting with full skeletonised in-situ arterial grafts
K. Tachibana, T. Higami, Y. Miyaki, T. Hagiwara, A. Yamashita, N. Takagi; Sapporo (Japan)
Discussant: M. Amrani, Harefield

Novel suturing device for distal coronary anastomosis: Preclinical results from swine off-pump coronary bypass model
Y. Itoda, N. Panthee, T. Tanala, T. Ando, I. Sakuma, M. Ono; Tokyo (Japan)
Discussant: D. Stecher, Utrecht

Robotic versus conventional coronary artery bypass graft: A propensity score-based comparison of perioperative and long-term results
M. Kofler, L. Stastny, T. Schachner, J. Kilo, M. Grimm, L. Mueller, J. Bonatti; Innsbruck (Austria), Abu Dhabi (United Arab Emirates)
Discussant: R. Casula, London

Wrap up
D. Taggart, Oxford
Re-evaluation of mitral valve repair and replacement

Moderators: M. J. Antunes, Coimbra; M. Kirsch, Paris

Learning objectives: Management of subvalvular apparatus in rheumatic mitral disease and CMR in evaluation of mitral valve disease

16:00 139
Left ventricular four-dimensional flow changes following undersized mitral annuloplasty
J. McGarvey, D. Zhang, W. Witschey, N. Kondo, C. Aoki, M. Gillespie, J. Gorman, R. Gorman; Philadelphia (USA)
Discussant: R. Klautz, Leiden

16:15 140
Comparison between posterior leaflet and complete preservation versus complete resection of the subvalvular apparatus during mitral valve replacement in rheumatic patients with a “stenosis-dominant” valve
F. Roshanali, M. H. Mandegar, B. Moradi; Tehran (Iran)
Discussant: G. Esposito, Bergamo

16:30 141
Preservation of the sub-valvular apparatus during mitral valve replacement of rheumatic valves does not improve long-term survival
G. Freitas Coutinho, V. Bihun, P. Correia, P. Antunes, M. Antunes; Coimbra (Portugal)
Discussant: I. Ahmed, Brighton

16:45 142
Mitraclip therapy and surgical edge-to-edge repair in patients with severe left ventricular dysfunction and secondary mitral regurgitation: Mid-term results of a single-centre experience
M. De Bonis, M. Taramasso, E. Lapenna, P. Denti, G. La Canna, F. Pappalardo, M. Cioni, O. Alfieri; Milan (Italy)
Discussant:

17:00 143
Evaluation of risk factors for recurrence of ischaemic mitral regurgitation after undersized mitral ring annuloplasty using cardiovascular magnetic resonance imaging
S. Yamazaki1, H. Yaku2, K. Doi3, S. Numata2, T. Yamamoto2, T. Kobayashi2, K. Manabe2; 1Fukui (Japan), 2Kyoto (Japan)
Discussant: V. Delgado, Leiden

17:15 144
Surgical treatment of posterior mitral valve prolapse: Towards one hundred percent repair
P. Correia, G. Freitas Coutinho, R. Branco, A. L. Garcia, M. Antunes; Coimbra (Portugal)
Discussant: J. Seeburger, Leipzig
Transcatheter aortic valve implantation and its place in the contemporary treatment

Moderators: V. Falk, Berlin; M. Thielmann, Essen

Learning objectives:
Transcatheter aortic valve implantation outcomes update

16:00 145
No difference in outcome at five years after transfemoral and transapical transcatheter aortic valve implantation in more than 1000 patients
S. Bleiziffer1, Y. Elhmidi1, M. Dorfreister1, D. Mazzitelli1, H. Ruge1, D. Vincze1, N. Piazza2, R. Lange1; 1Munich (Germany), 2Montreal (Canada)
Discussant: M. Wilbring, Dresden

16:15 146
European real-world transcatheter aortic valve implantation: Systematic review and meta-analysis of European national registries
U. Benedetto1, G. Biondi-Zoccai2, E. Tonelli2, G. Frati2; 1Cambridge (UK), 2Rome (Italy)
Discussant: M. Zembala, Tarnowskie Góry

16:30 147
The Italian transcatheter balloon-expandable valve registry: First report
S. Salizzoni, Turin (Italy)
Discussant: J. Kempfert, Bad Nauheim

16:45 148
One-year registry outcomes of the recently approved transapical ACURATE TAVI device
J. Kempfert1, D. Holzhey2, S. Hoffmann3, E. Girdauskas4, H. Treede5, H. Schroefeld6, M. Thielmann7, T. Walther1; 1Bad Nauheim (Germany), 2Leipzig (Germany), 3Bad Rothenfelde (Germany), 4Bad Berka (Germany), 5Hamburg (Germany), 6Karlsruhe (Germany), 7Essen (Germany)
Discussant: C. Huber, Berne

17:00 149
Quality of life in 3875 patients after transcatheter aortic valve implantation: One year data from the German Aortic Valve Registry
R. Lange1, A. Beckmann2, T. Neumann3, M. Krane1, R. Zahn4, J. Cremer5, C. Hamm6, F. Mohr7; 1Munich (Germany), 2Berlin (Germany), 3Essen (Germany), 4Ludwigshafen (Germany), 5Kiel (Germany), 6Bad Nauheim (Germany), 7Leipzig (Germany)
Discussant: M. Cikirikcioglu, Geneva

17:15 150
Safety and effectiveness of transaortic approach for transcatheter aortic valve implantation: Procedural and mid-term outcomes of 232 consecutive patients at a single centre
M. Romero, A. DaPrati, F. Tizzano, D. Le Houérou, A. Farge, T. Lefèvre, B. Chevalier, M. C. Morice; Massy (France)
Discussant: H. Amrane, Leeuwarden
Guidelines

Moderators: J. Cremer, Kiel, S. Windecker, Berne

16:00
The new EACTS/ESC Coronary guidelines: Surgeon perspective
P. Kolh, Liege

16:10
The new EACTS/ESC Coronary guidelines: Cardiologist perspective
S. Windecker, Berne

16:20
EACTS/ESC Coronary guidelines 2014: What are the unanswered questions - Cardiologist perspective
G. Stefanini, Berne

16:25
EACTS/ESC Coronary guidelines 2014: What are the unanswered questions - Surgical perspective
S. Head, Rotterdam

16:30
New guidelines in US: European guidelines 2 years old - Valvular guidelines
T. Sundt, Boston

16:40
New guidelines in US: European guidelines 2 years old - Overview of both guidelines
J. Vanoverschelde, Brussels

16:45
Discussion

16:50
New risk stratification model in the US valvular guidelines
N. Van Mieghem, Rotterdam

17:00
Discussion

17:05
How to implement guidelines (taped interview)
B. Keogh¹, J. Pepper²; ¹London, ²London

17:20
Discussion
16:00-17:30  Focus Session

Basic Science 2
Moderators: F. Da Costa, Curitiba; P. Dohmen, Berlin

16:00
Update on decellularized aortic allografts
F. Da Costa, Curitiba

16:15
Which stem cells do we need for tissue engineering?
G. Steinhoff, Rostock

16:30
Transcatheter tissue engineered heart valves

16:45
Whole heart tissue engineered
A. Weymann, Heidelberg

17:00
Autologous marrow stromal cell-based tissue-engineered heart valves
M. Emmert, Zürich

17:15
Summary, conclusions
P. Dohmen, Berlin

16:00-17:30  Focus Session

Developing cardiac surgery in the Southern Hemisphere
Moderators: M. M. Cascudo, Natal; J. L. Pomar, Barcelona

16:00
Impact of the social and economic evolution in the cardiac surgery of developing countries
F. Fynn-Thompson, Newton

16:30
Development models for cardiac programmes in emerging economies.
A. Frigiola, Milan

17:00
Cardiac surgery training programmes in South America, Africa and Asia.
R. Almeida1, F. Smit2, S. Hu3; 1Cascavel, 2Bloemfontein, 3Beijing

16:00-17:30  Simulation Session

Endoscopic port-access mitral valve repair drylab training using high-fidelity simulators
See page 54 for programme details
**08:15 - 09:45 Session 1: Catheter based mitral interventions: The mitral going transcutaneous**

*Moderators: J. Seeburger, Leipzig*

*Panel: G. Lutter, Kiel; M. Moon, St Louis; N. Van Mieghem, Rotterdam*

**08:15**
The long and winding road  
*S. Price, London*

**08:30**
Panel discussion

**08:40** 167
Transcatheter mitral valve replacement for native mitral valve stenosis using the inverted Sapien 3 prosthesis in six consecutive patients  
*P. Kiefer, J. Seeburger, A. Linke, T. Noack, S. Leontyev, F. Mohr, D. Holzhey; Leipzig (Germany)*  
*Discussant: M. Antunes, Coimbra*

**08:55** 168
Acute safety and efficacy of the Neochord procedure  
*A. Colli1, K. Rucinskas2, E. Manzan1, F. Zucchetta1, V. Janusauskas2, D. Zakarkait 2, A. Aidietis2, G. Gerosa3; 1Padua (Italy), 2Vilnius (Lithuania), 3Padova (Italy)*  
*Discussant: J. Obadia, Lyon*

**09:10**
Surgical options after unsuccessful mitral clipping - repair or replace  
*S. Geidel, M. Schmoeckel; Hamburg*

**09:25**
Panel discussion

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**10:15 - 11:45 Session 2: Catheter based mitral interventions: The mitral going transcutaneous**

*Moderators: J. Seeburger, Leipzig*

*Panel: G. Lutter, Kiel; F. Mohr, Leipzig; M. Moon, St Louis; N. Van Mieghem, Rotterdam*

**10:15**
Percutaneous annuloplasty  
*R. Lange, Munich*

**10:25**
Discussion

**10:30** 211
Clinical and anatomical predictors of MitraClip therapy failure for functional mitral regurgitation  
*M. Taramasso1, F. Maisano2, P. Denti1, A. Latib1, M. De Bonis1, G. La Canna1, A. Colomb01, O. Alfieri1; 1Milan (Italy), 2Zürich (Switzerland)*  
*Discussant: J. Seeburger, Leipzig*

**10:45** 212
Midterm outcomes (over three years) of percutaneous mitral repair in the real world: A single-centre experience  
*N. Buzzatti, P. Denti, D. Schiavi, M. Taramasso, M. De Bonis, G. Di Giannuario, G. La Canna, O. Alfieri; Milan (Italy)*  
*Discussant: A. Albertini, Cotignola (RA)*

**11:00**
Video: Valve-in-ring  
*D. Holzhey, Leipzig*
11:10 Discussion

11:15 Robotic mitral surgery; a safe an effective procedure
R. Poffo, São Paulo

11:35 Discussion

This session is supported by an unrestricted educational grant from Abbott Vascular

08:15-09:45 Abstract Session

Basic Science: Genes, cells and drugs
Moderators: P. Menasche, Paris; G. Steinhoff, Rostock

Learning objectives:
To learn about experimental evaluation of potential future treatments

08:15 169
Metagenomic analysis of native- and prosthetic-valve infective endocarditis
A. Oberbach, S. Feder, J. Neuhaus, N. Schlichting, Y. Kullnick, F. Mohr; Leipzig (Germany)
Discussant: A. C. Deppe, Cologne

08:30 170
Tissue engineered mitral valve: Morphology and biomechanics
P. Yablonski1, S. Cebotari2, I. Tudorache2, M. Granados2, L. Morticelli2, S. Korossis2, A. Hilfiker2, A. Haverich2; 1St-Petersburg (Russian Federation), 2Hannover (Germany)
Discussant:

08:45 171
Mesenchymal stem cell transplantation enhances frequency of M2 polarised macrophages in the peri-infarct region and attenuates scar formation
K. Neef1, A. C. Deppe1, C. Stamm2, E. Kuhn1, M. Scherner1, T. Wittwer1, T. Wahlers1, Y. Choi1; 1Cologne (Germany), 2Berlin (Germany)
Discussant: G. Pompilio, Milan

09:00 172
A novel model of murine ascending aortic aneurysm
G. Bianchi1, A. Pucci2, V. Lionetti2, M. Solinas3, M. Glauber3; 1massa (Italy), 2Pisa (Italy), 3Massa (Italy)
Discussant: H. Jakob, Essen

09:15 173
Serotonin signalling and mitral valve prolapse: Ovine and murine models reveal shared molecular mechanisms to human pathological remodelling
G. Ferrari, K. Driesbaugh, M. Lee, E. Branchetti, R. Gorman, J. Gorman, J. Bavaria, R. Levy; Philadelphia (USA)
Discussant: M. De Bonis, Milan

09:30 174
The effects of losartan in preserving the structural integrity of decellularised small-diameter vascular allograft conduit implants
S. H. Lee, S. J. Choo; Seoul (Korea)
Discussant: F. Schoenhoff, Berne
08:15-09:45  Film Session

Films

Moderators: A. Ahlsson, Örebro; R. Poffo, São Paulo

08:15  175-I
A new anastomotic option for severely calcified aortas: Double-folded adventitial anastomosis
H. Kurazumi, A. Mikamo, T. Kudo, R. Suzuki, M. Takahashi, B. Shirasawa, K. Hamano; Ube (Japan)

08:30  176-I
Transapical approach in redo myectomy for hypertrophic cardiomyopathy
E. Quintana, J. Dearani, H. Schaff; Rochester (USA)

08:45  177-I
Technique and pitfalls of off-pump waffle procedure for constrictive pericarditis
K. Matsuura1, K. Mogi2, M. Sakura2, Y. Takahara2; 1Kanasugi, Funabashi City (Japan), 2Funabashi (Japan)

09:00  178-I
Reconstructive surgery in adults with congenital mitral valve disease
J. G. Castillo, G. Torregrossa, A. C. Anyanwu, D. H. Adams; New York (USA)

09:15  179-I
Repair of a dilated Ross autograft using aortic ring annuloplasty and root restoration
D. Mazzitelli1, J. Hoerer1, J. S. Rankin2, C. Nöbauer1, R. Lange1, C. Schreiber1; 1Munich (Germany), 2Nashville (USA)

09:30  180-I
Resect or respect strategy of mitral annular calcification for patients with mitral regurgitation or stenosis
F. Nomura1, M. Suzuki2, A. Adachi1, Y. Ohkawa1, K. Sugiki1, T. Kazui1, T. Ohno1; 1Sapporo (Japan), 2Hamamatsu (Japan)

08:15-09:45  Abstract Session

Congenital aortic valve disease and Ross procedure


Learning objectives:
To define the role of the Ross procedure and the role of red blood cell distribution in risk assessment

08:15  181
A multicentre evaluation of the autograft procedure for young patients undergoing aortic valve replacement: Results from the German Ross Registry
H. Sievers1, E. Chantos1, M. Albert2, U. Franke2, U. Stierle1, J. Hörer2, R. Lange3, W. Hemmer2; 1Lübeck (Germany), 2Stuttgart (Germany), 3Munich (Germany)

Discussant: G.B. Luciani, Verona

08:30  182
The Ross procedure in young adults: Over 20 years’ experience in a single centre
S. Mastrobouli, L. De Kerchove, S. Solari, P. Astarci, A. Poncelet, P. Noirhomme, J. Rubay, G. El Khoury; Brussels (Belgium)

Discussant: H. Sievers, Lübeck

Tuesday 14 October 2014  76  Acquired Cardiac Disease
08:45 183
Seventeen-year single-centre experience with the Ross procedure: Fulfilling the promise of a long-lasting option without anticoagulation?
A. Miskovic¹, N. Monsefi², A. Karimian-Tabrizi², A. Zierer², A. Moritz²; ¹Frankfurt am Main (Germany), ²Frankfurt (Germany)
Discussant: A. Franco-Cereceda, Stockholm

09:00 184
Bicuspid aortic valve disease and ascending aortic aneurysm: Should the aortic root replacement be mandatory?
I. Vendramin, M. Meneguzzi, S. Sponga, E. Pompei, M. Maiani, U. Livi; Udine (Italy)
Discussant: L. Menicanti, Milan

09:15 185
Red blood cell distribution width predicts morbidity and mortality after aortic valve replacement
C. Pisano, C. R. Balistreri, D. Merlo, V. Argano, O. F. Triolo, C. Palmeri, E. Tulumello, G. Ruvolo; Palermo (Italy)
Discussant:

09:30
Who benefits from the Ross procedure
A. Hasan, Newcastle Upon Tyne

08:15-09:45 Abstract Session

Hot strategies in complex cardiac surgery
Moderators: M. Borger, New York; F. Eckstein, Basel

08:15 186
Aortic wall thickness as a parameter in pathogenesis of acute aortic dissection
J. Benedik, F. Mourad, D. Wendt, K. Pilarczyk, K. Tsagakis, D. Dohle, H. Baba, H. Jakob; Essen (Germany)
Discussant: E. Girdauskas, Bad Berka

08:30 187
A multiple patch technique for the treatment of ischaemic ventricular septal defects or contained ventricular rupture
G. Faerber, A. Moschovas, M. Diab, T. Doenst; Jena (Germany)
Discussant:

08:45 188
Cardiomyopathy in Marfan syndrome
R. Hetzer, G. Siegel, P. Gehle, E. M. Delmo Walter; Berlin (Germany)
Discussant: F. Kari, Freiburg

09:00 189
Managing distal arch tears in DeBakey I aortic dissection: Cut or stent?
P. Vallabhajosyula¹, J. D. Robb¹, R. Menon¹, J. Gottret¹, N. Desai¹, W. Szeto¹, A. Pochettino², J. Bavaria¹; ¹Philadelphia (USA), ²Rochester (USA)
Discussant: M. Shrestha, Hannover
Redo after acute type A aortic dissection: Early results from a multicentre real-world experience

A. M. Dell’Aquila¹, G. Santarpino², K. Fattouch³, G. Speziale⁴, T. Fischlein⁵, S. Martens¹, G. Concitri⁵, T. Regesta⁶; ¹Münster (Germany), ²Schwanstetten (Germany), ³Palermo (Italy), ⁴Bari (Italy), ⁵Nuremberg (Germany), ⁶Genova (Italy)

Discussant: B. Rylski, Freiburg

Novel method of assessment for ascending aortic dilatation with the bicuspid aortic valve

K. Hattori, K. Daitoku, W. Fukuda, M. Minakawa, Y. Suzuki, I. Fukuda; Hirosaki (Japan)

Discussant:

08:15-09:45 Focus Session

Aortic valve repair - Repair is for everyone

Moderators: A. Oo, Liverpool; J. Pepper, London; H. Schäfers, Homburg/Saar

08:15
Technique of aortic valve repair
E. Lansac, Paris

08:25
Discussion

08:30
Video: Aortic valve sparing operation (David)
U. Rosendahl, London

08:40
Discussion

08:45
All valves are equal - repair in bicuspid
L. de Kerchove, Brussels

08:55
Discussion

09:00
Repair for aortic stenosis
P. Urbanski, Bad Neustadt

09:10
Discussion

09:15
Long term results of leaflet repair
G. El Khoury, Brussels

09:25
Discussion

09:30
A word of caution
T. Modine, Lille

09:40
Discussion

09:45
Wrap up
J. Pepper, London
The clinical anatomy of the cardiac veins (with special emphasis on electro physiologic and percutaneous procedures)

H. Muresian, The University Hospital of Bucharest, Bucharest

ABSTRACT. Different from the coronary arterial system, the cardiac venous system (CVS) comprises polymorphous types of venous conduits depicting notable anatomic variations. Recent anatomic classification divides the cardiac veins into two main groups: tributaries of the greater CVS and tributaries of the lesser CVS, consisting of Thebesian vessels. The greater CVS is subdivided into two groups: coronary sinus and non–coronary sinus tributaries. Associated un–paralleled channels depicting bidirectional flow of blood comprise the arterio–luminal, veno–luminal vessels and the sinusoids and are considered together with the CVS; they may offer alternative routes in case of obstructive coronary artery disease. The thorough knowledge of the CVS anatomy becomes more evident and necessary with the advent of the modern diagnostic imaging techniques (CT venous mapping) as well as with the development of percutaneous procedures such as the left ventricular pacing (cardiac resynchronization therapy) and percutaneous mitral annuloplasty. Not least, retrograde delivery of cardioplegia remains a gold standard in open heart surgery. The normal development of the cardiac veins and the disposition in the adult heart is presented, together with the most notable anatomic variations and anomalies. A classification of venous typology is also offered. A most complete anatomical picture is offered by presenting images of dissected human heart specimens from a series of 25 dissected human heart specimens, accompanied by CT venography images (including volume-rendered images). Human heart specimens are also displayed in a wet-lab session. The emergent clinical and surgical applications are presented in a most comprehensive manner.
08:45
Early graft infection after aortic root and arch replacement?
S. Guenther¹, N. Khaladj², M. Pichlmaier¹, C. Hagl¹; ¹Munich (Germany), ²Muenchen (Germany)

08:50
Pseudoaneurysm of the Aortic Isthmus Involving a Right Aberrant Subclavian Artery Long After Multiple Coarctation Repairs
L. Botta¹, A. Cannata¹, G. Bruschi¹, P. Fratto², F. Milazzo², L. Martinelli¹; ¹Milan (Italy), ²Milano (Italy)

08:55
Radical surgery for mesothelioma
T. Treasure¹, P. Van Schil², D. Wood³; ¹Badlesmere, ²Antwerp, ³Seattle

09:05
Mesothelioma - Decision according to age, stage, histology, function
L. Lampl, augsburg (Germany)

09:10
To be advised
I. Ilonen, Helsinki

09:15
Indications for Fontan Operation
P. Vouhe¹, W. Brawn², E. Bell³, B. Alsoufi⁴, G. Gargiulo⁵; ¹Paris, ²Birmingham, ³Le Plessis-Robinson, ⁴Atlanta, ⁵Bologna

09:25
The Strange Case Of Biventricular Physiology and Great Arteries Atresia
L. Careddu, F. D. Petridis, G. Oppido, E. Angeli, M. Ialonardi, R. Liberi, S. Speziali, G. Gargiulo; Bologna (Italy)

09:30
To treat or not to treat? Should we treat AV valve’s insufficiency during Fontan operation?
F. D. Petridis, L. Careddu, G. Oppido, E. Angeli, M. Ialonardi, A. Fabozzo, S. Speziali, G. Gargiulo; Bologna (Italy)

08:15-09:45 Simulation Session da Vinci
Endoscopic port-access mitral valve repair drylab training using high-fidelity simulators
See page 54 for programme details

10:15-11:45 Abstract Session Titian
Coronary Surgery: Quality matters
Moderators: B. Buxton, Victoria; T. Modine, Lille

10:15
Ensuring graft patency a must
T. Kieser, Calgary
10:25 Video: Intraoperative angiography in hybrid
S. Jacobs, Zürich

10:35 Discussion

10:40 Video: Skeletonize and T-it!
P. Davierwala, Leipzig

10:50 Discussion

10:55 213 Carotid artery screening at the time of coronary artery bypass: Does it influence neurological outcomes?
P. Narayan¹, M. Khan², D. Das², S. Roy Chowdhury², M. Das², E. Rupert²; ¹Bristol (UK), ²Kolkata (India)
Discussant: M. Sousa Uva, Lisboa

11:10 214 The impact of a modified ‘Safe Surgery Saves Lives’ checklist developed specifically for the cardiac surgical patient
H. Loeblein, O. Dzemali, K. Graves, M. Yilmaz, M. Genoni; Zürich (Switzerland)
Discussant: M. Kaljusto, Toronto

11:25 215 Cost-benefit of endoscopic vein harvesting in high-risk patients undergoing CABG
P. Kaur¹, H. Luckraz², K. Nagarajan¹, A. Nevill², K. Saleem¹, M. Waterfall¹, W. Pugsley¹, M. Bhabra¹; ¹West Midlands (UK), ²Wolverhampton (UK)
Discussant: R. Osnabrugge, Rotterdam

11:40 Wrap up
M. Siepe, Freiburg

10:15-11:45 Abstract Session

The tricuspid: A continuing problem
Moderators: F. Casselman, Aalst; R. Klautz, Leiden

Learning objectives:
To assess the fate of untreated less than severe tricuspid regurgitation

10:15 216 Untreated mild to moderate tricuspid regurgitation in dilated cardiomyopathy patients submitted to mitral repair: What happens at long-term?
M. De Bonis¹, E. Lapenna¹, T. Nisi¹, A. Giacomini¹, M. Calabrese¹, A. Miceli², O. Alfieri¹, M. Glauber²; ¹Milan (Italy), ²Massa (Italy)
Discussant: J. Kluin, Utrecht

10:30 217 Redo tricuspid valve surgery after tricuspid valve repair: Re-repair versus replacement
H. Y. Hwang, K. Kim, K. Kim, H. Ahn; Seoul (Korea)
Discussant: M. Borger, New York
Effect of pulmonary hypertension on ovine tricuspid annular dynamics

M. Malinowski\textsuperscript{1}, P. Wilton\textsuperscript{2}, A. Khaghani\textsuperscript{2}, D. Langholz\textsuperscript{2}, V. Hooker\textsuperscript{2}, L. Eberhart\textsuperscript{2}, R. Hooker\textsuperscript{2}, T. Timek\textsuperscript{2}; \textsuperscript{1}Katowice (Poland), \textsuperscript{2}Grand Rapids (USA)

Discussant: T. Wahlers, Cologne

Functional and biomechanical performance of stentless extracellular matrix tricuspid tubegraft in pigs

D. Ropcke\textsuperscript{1}, C. Ilkjaer\textsuperscript{1}, T. Hejslet\textsuperscript{1}, A. Soerensen\textsuperscript{1}, H. Jensen\textsuperscript{1}, M. Jensen\textsuperscript{2}, V. Hjortdal\textsuperscript{1}, S. Nielsen\textsuperscript{1}; \textsuperscript{1}Aarhus (Denmark), \textsuperscript{2}Atlanta (USA)

Discussant:

Prophylactic tricuspid annuloplasty in patients with mild tricuspid regurgitation undergoing double valve replacement

D. S. Jeong, K. Sung, P. W. Park; Seoul (Korea)

Discussant: R. Dion, Genk

Prognostic impact and late evolution of untreated moderate functional tricuspid regurgitation in patients undergoing aortic valve replacement

M. Taramasso, M. De Bonis, A. Pozzoli, D. Schiavi, A. Latib, N. Buzzatti, G. La Canna, O. Alfieri; Milan (Italy)

Discussant: T. Folliguet, Vandoeuvre Les Nancy

Transcatheter aortic valve implantation: the treatment of choice

Moderators: V. N. Bapat, London; T. Walther, Bad Nauheim

Learning objectives:
Technical aspects of transcatheter aortic valve implantation and changing strategy for aortic stenosis

Propensity matched comparison of two different transapical transcatheter aortic valve implantation systems

J. Kempfert, A. Meyer, W. Kim, A. Van Linden, M. Arsalan, J. Blumenstein, H. Möllmann, T. Walther; Bad Nauheim (Germany)

Discussant: P. Suwalski, Warsaw

Transcatheter valve-in-valve (VIV) implantation: Experience with four different catheter valves in three different bioprostheses

D. Camboni, A. Holzamer, K. Debl, L. Meier, Y. Zausig, C. Schmid, M. Hilker; Regensburg (Germany)

Discussant: J. Verhoye, Rennes

What is the best surgical strategy for aortic disease in redo scenarios? A comparison between traditional aortic valve replacement and transapical transcatheter aortic valve implantation from two real-world multicentre surgical registries

F. Onorati\textsuperscript{1}, A. D’Onofrio\textsuperscript{2}, G. Gerosa\textsuperscript{3}, G. Faggian\textsuperscript{1}; \textsuperscript{1}Verona (Italy), \textsuperscript{2}Padua (Italy), \textsuperscript{3}Padova (Italy)

Discussant: T. Hanke, Lübeck
11:00  225
CT-based calculation of the “line of perpendicularity” and “implanter’s views” in patients prior to transcatheter aortic valve implantation
A. Holzamer¹, O. Husser², D. Camboni¹, C. Hengstenberg², K. Debl¹, C. Schmid¹,
M. Hilker¹; ¹Regensburg (Germany), ²Munich (Germany)
Discussant: J. Grau, Ridgewood

11:15  226
Post-mortem computed tomography and post-mortem computed tomography angiography following transcatheter aortic valve implantation
B. Vogel, A. Heinemann, H. Gulbins, H. Treede, H. Reichenspurner, K. Püschel, H. Vogel; Hamburg (Germany)
Discussant: N. Al Attar, Glasgow

11:30  227
Conventional versus transapical aortic valve replacement: Is it time for indication shift?
S. Ahad¹, H. Baumbach¹, S. Hill¹, T. Schaeufele¹, M. Beyer², R. Berroth³, U. Franke¹;
¹Stuttgart (Germany), ²Kirchheim unter Teck (Germany), ³Ludwigsburg (Germany)
Discussant: E. Ferrari, Lausanne

10:15-11:45  Abstract Session

Surgical remodelling of the left ventricle
Moderators: J. S. Coselli, Houston; L. Menicanti, Milan

Learning objectives:
New ways to restore the left ventricle and conventional surgical option for terminal heart failure

10:15
Left ventricular reconstruction
G. Dreyfus, Monte-Carlo

10:30  228
Safety of a novel surgical therapy for the treatment of advanced heart failure: Review of surgical morbidity and mortality of Algisyl-LVR from the AUGMENT-HF trial
L. Menicanti¹, I. Mocanu², F. Miraldi³, S. Marasco⁴, A. Hinson⁵, R. Lee⁶, H. Sabbah⁷,
D. Mann⁸; ¹Milan (Italy), ²Bucharest (Romenia), ³Rome (Italy), ⁴Melbourne (Australia),
⁵Mason (USA), ⁶San Francisco (USA), ⁷Detroit (USA), ⁸St. Louis (USA)
Discussant: T. Gudbjartsson, Reykjavik

10:45  229
Improved results twelve years after surgical ventricular restoration: Significance of the evolving concept of reshaping compared to the volume reduction approach
G. Stefanelli¹, F. Pirro¹, C. Labia¹, P. Giovanardi², G. Gioia¹; ¹Modena (Italy), ²Galloway (USA)
Discussant: L. Menicanti, Milan

11:00  230
Posterior restoration procedures and long-term results in indicated patients with dilated cardiomyopathy
T. Isomura¹, M. Hirotà², J. Hoshino², T. Kondo², Y. Takahashi², M. Yoshida¹;
¹Kanagawa (Japan), ²Hayama (Japan)
Discussant: H. Suma, Tokyo
Preoperative transaortic forward flow, a predictor of surgical outcome for mitral surgery in patients with dilated cardiomyopathy and mitral regurgitation

T. Isomura¹, M. Hirota², M. Yoshida¹, J. Hoshino², T. Kondo², Y. Takahashi²;¹ Kanagawa (Japan), ²Hayama (Japan)

Discussant: M. Pocar, Milan

Structures and forces involved in ventricular remodelling

P. Lunkenheimer, Muenster

Chronic heart failure - Welcome to the machine

Moderators: G. Gerosa, Padova; A. R. Simon, Harefield

10:15
Chronic left ventricular assist device support
T. Krabatsch, Berlin

10:35
Video: Less invasive sternotomy sparing (LIS) left ventricular assist device implantation
F. Ramjankhan, Utrecht

10:50
Will the right ventricular make it?

11:05
Prospects for chronic right ventricular assist device
A. Simon, Harefield

11:20
The EACTS EUROMACS Registry
R. Hetzer, Berlin

11:35
Wrap up
G. Gerosa, Padova

Endoaortic balloon clamping and transthoracic aortic clamping are both safe and effective in minimally invasive mitral valve surgery

M. Rinaldi¹, R. Krakor², M. Bentala³, F. Casselman⁴, P. Candolfi⁵, C. Barbero⁶, J. Goldstein⁷;¹ Turin (Italy), ²Dortmund (Germany), ³Breda (Netherlands), ⁴Aalst (Belgium), ⁵Nyon (Switzerland), ⁶Torino (Italy), ⁷Brussels (Belgium)

Levosimendan does not improve outcome in patients after adult cardiac surgery

S. Deo¹, J. Y. Lim², S. E. Altarabsheh³, A. Rababa’h⁴, Y. H. Cho², S. Park⁵;¹ Surat (India), ²Seoul (Korea), ³Amman (Jordan), ⁴Irbid (Jordan), ⁵Cleveland (USA)
The surgical anatomy of the aortic root

H. Muresian, The University Hospital of Bucharest, Bucharest

ABSTRACT. The aortic root comprises a complex of anatomical elements situated between the narrower left ventricular outflow tract and the ascending aorta, respectively. The dilated portion containing the three aortic valvar leaflets and the origins of the two coronary arteries is constituted by the aortic sinuses and by the intervening interleaflet triangles. Although apparently simple and symmetrical, the aortic root depicts gross anatomical and microscopic particulars of clinical and surgical relevance. The static volumes and distensibility of the aortic sinuses are different just as the areas of each aortic leaflet are. Not least, the interleaflet triangles are not isosceles and are dissimilar. The precise knowledge of aortic root anatomy and function is a must for any surgeon contemplating valve-preserving and root remodeling procedures or for designing new types of prostheses. The continuity with the anterior mitral valve leaflet confers additional particulars to the aortic root. The detailed anatomy of the aortic root is presented in images of dissected human anatomical heart specimens from a series of 100 dissected human heart specimens; these are compared with ultrasound, CT and MRI pictures. Human heart specimens are also displayed in a wet-lab session. The vascularization of the aortic root is presented in detail. Particular reference is made regarding the principal surgical procedures, the valve-preserving techniques, and the root enlargement procedures.
### Training in minimally invasive cardiothoracic surgery

**Moderators:** V. Falk, Berlin; A. P. Kappetein, Rotterdam; J. Maessen, Maastricht

**10:15**
How to start a minimally invasive program: “surgeon experience”

*P. Sardari Nia, Maastricht*

**10:45**
How to incorporate a minimally invasive surgery in training programs: “Trainers Perspective”

*R. Sádaba, Pamplona*

**11:15**
How the industry can help with minimally invasive education: “industry experience”

*F. Duhay, Irvine*

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### Fontan Prize Presentation

**11:50-11:55**

**Gold Room**

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### Update on Multimedia Manual of Cardio-Thoracic Surgery

**11:55-12:00**

**Gold Room**

*Turina, Zürich*

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### The Honoured Guest Lecture

**12:00-12:30**

**Gold Room**

*Genetics of aortic disease*

*B. Loeys, Edemge (Antwerp)*

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### Residents’ Luncheon

**12:45-14:15**

**Salon Panoramica**

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### The Clash of the Titans returns!

**Table I: Nuss versus Ravitch:**

H. K. Pilegaard¹, M. Yuksel²; ¹Aarhus, ²Istanbul

**Table 2: Endoscopic thymectomy or open**

F. Melfi¹, M. Zielinski²; ¹Pisa, ²Zakopane

**Table 3: Hybrid or open for extensive aortic disease**

J. Bavaria¹, J. Pepper²; ¹Philadelphia, ²London

**Table 4: Sutureless mini aortic valve replacement versus transcatheter aortic valve implantation**

A. P. Kappetein¹, M. Glauber²; ¹Rotterdam, ²Milan

**Table 5: Minimally invasive atrial septal defect closure versus open**

R. Prêtre¹, V. Hraska²; ¹Lausanne, ²Sankt Augustin
Long term results of mitral valve surgery

Moderators: O. Alfieri, Milan; J. Obadia, Lyon

Learning objectives:
Optimal therapy for functional mitral regurgitation and timing of surgery for mitral valve repair

14:15 255
Negative impact of atrial fibrillation and pulmonary hypertension after mitral valve surgery in asymptomatic patients with severe mitral regurgitation: Twenty-year follow-up
G. Freitas Coutinho, A. L. Garcia, C. Branco, P. Correia, M. Antunes; Coimbra (Portugal)
Discussant: R. Rosenhek, Vienna

14:30 256
Mitral valve repair has better long-term outcomes compared with mitral valve replacement in elderly patients with mitral regurgitation
Discussant: F. Ferdinand, Wynnewood

14:45 257
Minimally invasive mitral valve surgery without aortic cross clamping and with femoral cannulation not associated with increased risk for stroke compared to traditional mitral valve surgery: A propensity score matched analysis
N. Ad, S. Holmes, G. Pritchard, P. Massimiano; Falls Church (USA)
Discussant: H. Vanermen, Woluwe Saint Lambert

15:00 258
Predictors of prolonged intensive care unit stay in patients undergoing minimally invasive right thoracotomy valve surgery: A single institution analysis with 2272 patients
M. Murzi, A. Miceli, P. Farneti, M. Solinas, M. Glauber; Massa (Italy)
Discussant: I Modrau, Copenhagen

15:15 259
Is repair of the mitral valve still a gold standard in severe ischaemic mitral regurgitation?
V. Shumavets, A. Shket, A. Janushko, I. Grinchuk, N. Semenova, Y. Ostrovski; Minsk (Belarus)
Discussant: J. Braun, Leiden

15:30
Repair or replacement for functional mitral regurgitation
G. Dreyfus, Monte-Carlo
Developments in coronary artery bypass graft

*Moderators: P. Kolh, Liege; M. Sousa Uva, Lisbon*

**Learning objectives:**
On or off pump? How to improve outcomes

14:15 260
Current evidence of coronary artery bypass grafting off-pump versus on-pump: A systematic review with meta-analysis of more than 16,500 patients investigated in 66 randomised controlled trials

A. C. Deppe, Y. Choi, W. Arbash, E. Kuhn, M. Schemer, I. Slottosch, P. Rahmanian, O. Liakopoulos, T. Wahlers; Cologne (Germany)

*Discussant: J. Börgermann, Bad Oeynhausen*

14:30 261
Off-pump coronary artery bypass surgery is associated with lower cardiac death at 1 year: Results from the on-pump versus off-pump (ON-OFF) study

M. Lemma1, L. Piazza2, G. Di Benedetto3, M. Rinaldi4, R. De Paulis5, C. Losito5, A. Rossi7, M. Genoni8; 1Milan (Italy), 2Caserta (Italy), 3Salerno (Italy), 4Turin (Italy), 5Rome (Italy), 6Bari (Italy), 7Sesto San Giovanni (Italy), 8Zürich (Switzerland)

*Discussant: J. Gabel, Gothenburg*

14:45 262
Changes in cerebral oximetry and haemodynamics during off-pump coronary artery bypass: Mechanism for perioperative stroke?

T. Al-Badawi, S. Witts, L. Howell, R. Richards, C. Rozario, M. Hartley, A. Tang; Blackpool (UK)

*Discussant: R. Lima, Recife*

15:00 263
Influence of previous percutaneous coronary intervention on clinical outcome of coronary artery bypass grafting: A meta-analysis of comparative studies

C. Ueki1, G. Sakaguchi2, T. Akimoto1, T. Shintani1, Y. Ohashi1, H. Sato1; 1Shizuoka (Japan), 2Kurashiki (Japan)

*Discussant:*

15:15 264
Results of total arterial versus conventional versus hybrid myocardial revascularisation: A propensity match analysis of long-term follow-up

C. Muneretto, A. Repossini, L. Di Bacco, G. Bisleri; Brescia (Italy)

*Discussant: H. Reichenspurner, Hamburg*

15:30 265
Transit-time flow measurement unmasks competitive flow in arterial bypass grafts

T. Kieser, M. . S. Rose; Calgary (Canada)

*Discussant: G. Di Giammarco, Chieti*
Preventing problems after open cardiac surgery

14:15 266
Minimally invasive extracorporeal bypass in minimally invasive heart valve surgery:
A prospective randomised trial
H. Baumbach, C. Rustenbach, R. Nagib, S. Ahad, M. Albert, D. Ratge, U. Franke; Stuttgart (Germany)
Discussant: A. Kiessling, Frankfurt

14:30 267
Bypass techniques and transfusion requirements: Comparison of mini-bypass versus
conventional cardiopulmonary bypass with or without prime displacement
P. Govewalla¹, A. Barua², L. McLean³, M. Loubani³, M. Chaudhry³; ¹Hull (UK), ²Leeds (UK),
³Cottingham (UK)
Discussant:

14:45 268
Patient blood management in octogenarians: Predictors of transfusion and prognostic
implications
L. S. De Santo¹, G. Romero¹, C. Bancone¹, M. Gagliardi², D. Benvenuto², V. Mazzei²,
C. Carbone², S. Caparrotti²; ¹Naples (Italy), ²Bari (Italy)
Discussant: T. Caus, Amiens

15:00 269
How early is too early? Timing of tracheostomy after median sternotomy and risk of
deep sternal wound infections
K. Pilarczyk, G. Marggraf, M. Dudasova, S. Bürgener, B. Schönfelder, H. Jakob, F. Dusse;
Essen (Germany)
Discussant: G. Trummer, Freiburg

15:15 270
Re-exploration for bleeding is an independent predictor of mortality in cardiac surgery
patients also beyond the immediate postoperative period
V. Fröjdh, A. Jeppsson; Goteborg (Sweden)
Discussant: L. Torracca, Ancona

15:30 271
Higher-than-spontaneous arterial pressure during extracorporeal circulation does not
result in improved renal function after cardiac surgery
Copenhagen (Denmark)
Discussant: B. Kiai, London

Acquired Cardiac Disease Tuesday 14 October 2014
Heart transplantation

Moderators: S. R. Large, Elsworth; G. Rabago, Pamplona

Learning objectives:
To discuss current outcomes in heart transplantation;
To improve intraoperative outcomes of heart transplantation

14:15 272
Efficacy of mechanical postconditioning following warm, global ischaemia depends on circulating fatty acid levels in an isolated, working rat heart model
M. Bartkevics1, S. Huber2, V. Mathys2, J. Sourdor2, M. Dornbierer2, H. Tavaeara2, T. Carre2, S. Longnus2; 1Payerne (Switzerland), 2Berne (Switzerland)

Discussant:

14:30 273
Mechanical circulatory support in the Dutch National Paediatric Heart Transplantation Program
M. Van Der Meulen, M. Dalinghaus, A. Maat, P. Van De Woestijne, L. Van Osch, M. De Hoog, U. Kraemer, A. Bogers; Rotterdam (Netherlands)

Discussant: M. Siepe, Frieburg

14:45 274
Has psychosocial compliance an impact on long-term outcome after heart transplantation?
S. Sponga, C. Travaglini, F. Pisa, G. Guzzi, V. Tursi, C. Nalli, U. Livi; Udine (Italy)

Discussant: T. Carrel, Berne

15:00 275
Mild hypothermia during ex-vivo machine perfusion improves recovery of hearts donated after circulatory death
H. Tolbo1, V. Olejnickova1, D. Reser1, B. Rosser1, M. Wilhelm1, M. Gassmann1, A. Bogdanova1, V. Falk2; 1Zürich (Switzerland), 2Zürich (Switzerland)

Discussant: D. Schibilsky, Tübingen

15:15 276
Deep hypothermic circulatory arrest for concomitant procedures in patients undergoing heart transplantation
P. Vallabhajosyula, R. Menon, J. Gottret, C. Komlo, P. Atluri, M. Acker; Philadelphia (USA)

Discussant: L. Careddu, Bologna

Mitral and tricuspid valve surgery: Why and how to transition to minimal invasive surgery?

Moderators: F. Musumeci, Rome; M. Taramasso, Zürich

Learning objectives:
The main objective is to understand the process of launching and building a minimally invasive surgery mitral and tricuspid program and justifying it by sharing experience and answering the following key questions.

14:15
Introduction and learning
M. Taramasso, Zürich
14:20  
Review of the latest clinical studies: Why should we set-up an minimal invasive surgery program?  
F. Casselman, Aalst

14:35  
Minimal invasive surgery vs. Full sternotomy: Is minimal invasive surgery cost effective?  
P. Herijgers, Leuven

14:50  
Minimal invasive surgery patient selection: How to pick the right patient? How to avoid problems?  
A. Liebold, Ulm

15:05  
Real life example: How did I start a minimal invasive surgery program in my centre?  
R. Cocchieri, Amsterdam

15:20  
Next step concomitant minimal invasive surgery procedures: Mitral and tricuspid combined, tips and tricks  
L. Mueller, Innsbruck

15:35  
Discussion  
This session is supported by an unrestricted educational grant from Edwards Lifesciences SA

14:15-15:45  
Focus Session  
Michelangelo

Transcatheter heart valve therapy: a look to the future  
Moderators: M. De Bonis, Milan; J. Clague, London

14:15  
Trans-catheter aortic valve implantation: what’s next?  
A. Colombo, Milan

14:30  
Long-term results of the MitraClip therapy: what can we foresee after 10 years surgical experience  
M. De Bonis, Milan

14:45  
Robotic mitral valve repair: the future is there  
R. Dion, Genk

15:00  
The tricuspid valve: the next target?  
G. Lutter, Kiel

15:15  
First experience with transcatheter mitral valve implantation: what the future holds  
V. Bapat, London

15:30  
Wrap up  
J. Clague, London
14:15-15:45  Focus Session

Pitfalls and trouble-shooting in minimally invasive surgery
Moderators: M. Glauber, Milan; F. Mohr, Leipzig

14:15
Peripheral cannulation pitfalls
M. Glauber, Milan

14:30
Perfusion problems and management in minimally invasive cases
F. G. Waanders, Doorn

14:45
Cardio protection in minimally invasive surgery
V. Falk, Berlin

15:00
Pitfalls in port-access mitral valve surgery
F. Mohr, Leipzig

15:15
Pitfalls in minimally invasive aortic valve replacement
P. Sardari Nia, Maastricht

15:30
Pitfalls in transcatheter valve therapies
A. P. Kappetein, Rotterdam

16:00-17:30  Abstract Session

Late Breakers II
Moderators: G. Bruschi, Milan; G. Lutter, Kiel

16:00  339
North American FDA trial results at one year of the Sorin® Freedom Solo pericardial aortic valve
D. Heimansohn1, E. Roselli2, V. Thourani3, S. Wang4, P. Voisine5, J. YE6, R. Dabir7, M. Moon8; 1Indianapolis (USA), 2Cleveland (USA), 3Atlanta (USA), 4Edmonton, Alberta (Canada), 5Quebec (Canada), 6Vancouver, BC (Canada), 7Dearborn (USA), 8Winnipeg, MB (Canada)
Discussant: X. Roques, Pessac

16:15  340
Hemodynamic performance and early safety after rapid deployment aortic valve replacement: real-world outcomes 512 patients
G. Laufer1, A. Kocher1, M. Cassese2, F. Alamanni3, C. Holzinger4, C. Young5, F. Duhay6, M. Glauber7; 1Vienna (Austria), 2Bari (Italy), 3Milan (Italy), 4St. Pölten (Austria), 5London (UK), 6Irvine (USA), 7Massa (Italy)
Discussant: E. Ferrari, Lausanne

16:30  341
Effective, and rapid sealing of coronary, aortic, and atrial suture lines
J. Skorpil1, A. Paraforos2, J. Mandak3, W. Cohn4, T. Hajek1, I. Friedrich2; 1Pilsen (Czech Republic), 2Trier (Germany), 3Hradec Kralove (Czech Republic), 4Houston (USA)
Discussant: G. Tavilla, Leiden

Tuesday 14 October 2014
3D-Rapid prototyping for surgical planning of Morbus Barlow from 3D echocardiography
A. Hossien, P. Sardari Nia, J. Maessen; Maastricht (Netherlands)
Discussant: W. Bouma, Groningen

Valve-in-valve procedures in failing biological xenografts with the new Edwards Sapien 3®: experiences in aortic and tricuspid position
A. Schaefer, L. Conradi, D. Koschyk, E. Lubos, U. Schäfer, H. Reichenspurner, H. Treede; Hamburg (Germany)
Discussant: M. Reardon, Houston

16:00-17:30 Abstract Session

Infective endocarditis and outcomes
Moderators: T. Bahrami, Harefield; C. A. Mestres, Abu Dhabi
Learning objectives:
Long-term results of surgery for endocarditis and improving outcomes in marginal patients

Early and late outcomes of complex aortic root surgery in patients with aortic root abscesses
P. Davierwala, S. Leontyev, K. Günter, F. Bakhtiary, M. Borger, M. Misfeld, F. Mohr; Leipzig (Germany)
Discussant: C. Mestres, Abu Dhabi

Quality of life in 9985 patients following aortic valve replacement: One-year results from the German Aortic Valve Registry
A. Beckmann1, R. Lange2, T. Neumann3, M. Krane2, A. Welzl4, C. Hamm5, F. Mohr6; 1Berlin (Germany), 2Munich (Germany), 3Essen (Germany), 4Bonn (Germany), 5Bad Nauheim (Germany), 6Leipzig (Germany)
Discussant: D. Pagano, Birmingham

Surgical management of destructive aortic endocarditis: Left ventricular outflow reconstruction with Sorin Pericarbon Freedom stentless bioprosthesis
S. Sponga, D. Pavoni, G. Nucifora, I. Vendramin, E. Mazzaro, U. Livi; Udine (Italy)
Discussant:

Influence of different pacemaker stimulation modes in patients with ventricular hypertrophy
A. Kiessling, L. Elhadouchi, A. Miskovic, C. Reyher, U. Stock, A. Moritz; Frankfurt (Germany)
Discussant: G. Dimitrakakis, Cardiff

Acquired Cardiac Disease 93 Tuesday 14 October 2014
Mitrail valve abnormalities in patients with bicuspid aortic valve: Prevalence, mechanisms and impact on associated aortic dilatation risk
A. Della Corte¹, C. Bancone¹, M. Buonocore¹, M. V. Montibello², D. Avitabile¹, G. Dialetto¹, S. Manduca¹, M. De Feo¹; ¹Naples (Italy), ²Pozzuoli (Italy)
Discussant: S. Cicek, Istanbul

Full sternotomy versus right anterior mini-thoracotomy for isolated aortic valve replacement in octogenarians: A propensity matched study
D. Gilmanov¹, P. Farneti¹, M. Ferrarini², F. Santarelli¹, M. Murzi¹, A. Miceli¹, M. Solinas¹, M. Glauber¹; ¹Massa (Italy), ²Milan (Italy)
Discussant: F. Nicolini, Parma

Cardiac surgery in marginal patients
Moderators: A. A. Hassouna, Cairo; P. Leprince, Paris

Surgical thrombectomy of mechanical valve thrombosis
P. Pomerantzeff¹, S. Steffen¹, C. Brandão¹, G. Lapenna¹, F. Tarasoutchi¹, F. Jatene²; ¹São Paulo (Brazil), ²São Paulo (Brazil)
Discussant: A. Ahlsson, Örebro

Treatment strategy for infective endocarditis associated with cerebral complication
G. Muraoka, T. Komiya, H. Tsuneyoshi, T. Shimamoto; Kurashiki (Japan)
Discussant: J. Gabel, Goteborg

Preoperative intra-aortic balloon pumping in high-risk patients undergoing cardiac surgery: A meta-analysis of randomised controlled trials
K. Pilarczyk¹, H. Jakob¹, G. Langebartels², A. Böning³, A. Markewitz⁴, N. Haake⁵, M. Heringalke⁶, G. Trummer⁷; ¹Essen (Germany), ²Köln (Germany), ³Giessen (Germany), ⁴Koblenz (Germany), ⁵Kiel (Germany), ⁶Lübeck (Germany), ⁷Bad Krozingen (Germany)
Discussant: T. Gudbjartsson, Reykjavik

Cardiac surgery under Coumadin: Is preoperative normalisation of the international normalised ratio (INR) necessary?
Y. Essa, H. Hoyer, G. Färber, M. Diab, M. Hofmann, P. Amorim, T. Doenst; Jena (Germany)
Discussant: D. Reineke, Berne

Cardiac reoperations in octogenarians: Do patients really benefit?
H. Deschka¹, S. Erler², S. Martens¹, G. Wimmer-Greinecker²; ¹Münster (Germany), ²Bad Bevensen (Germany)
Discussant: M. Zembala, Zabrze

Effect of carotid revascularisation on cerebral autoregulation in combined cardiac surgery
D. Hon¹, M. Ono², H. Adachi³, C. Hogue¹; ¹Baltimore (USA), ²Houston (USA), ³Saitama (Japan)
Discussant: P. Ogutu, Gersthofen
Can minimally invasive ablation keep up its promise for lone atrial fibrillation

Moderators: M. Castella, Barcelona; M. La Meir, Brussels

16:00  303
Systematic review comparing endocardial full maze to epicardial ablation and hybrid procedure on safety and efficacy of minimally invasive surgical ablation for lone atrial fibrillation

H. G. Je, N. Ad; Falls Church (United States of America)

Discussant: S. Benussi, Milan

16:15  304
The double-isolation lesion set provides superior outcomes to the box lesion in patients with stand-alone, persistent atrial fibrillation

C. Muneretto, G. Bisleri, F. Rosati, L. Bontempi, M. Cerini, A. Curnis; Brescia (Italy)

Discussant: M. La Meir, Brussels

16:30  305
A new approach to determine the results of minimally invasive pulmonary vein isolation using a continuous loop monitor: Preliminary results

M. Oudeman1, A. Tjon1, J. Huijgen1, A. Mijnen1, G. De Ruiter1, A. Van Eijkhout1, A. Voogel2, S. Lalezari1; 1Amsterdam (Netherlands), 2Hoofddorp (Netherlands)

Discussant: M. Mariani, Groningen

16:45  306
Implantable loop recorder monitoring after concomitant surgical ablation for atrial fibrillation: Insights from more than two hundred continuously-monitored patients

S. Pecha, F. Hartel, A. Aydin, I. Subbotina, S. Willems, H. Reichenspurner, F. Wagner; Hamburg (Germany)

Discussant: E. Charitos, Lübeck

17:00  307
Electrophysiological efficacy of Cobra Revolution temperature controlled bipolar radiofrequency

A. Pozzoli, M. Taramasso, F. Ancona, M. Kamami, D. Ciantone, P. Della Bella, O. Alfieri, S. Benussi; Milan (Italy)

Discussant: N. Doll, Stuttgart

17:15
Exiting the maze to walk into the hybrid labyrinth

M. Castella, Barcelona

16:00-17:30  Focus Session  Amber 5

All alone in the operating room - Tips and tricks in urgent disasters

Moderators: F. Mohr, Leipzig; A. Pavie, Paris

16:00
Ten minute rules of disaster management

S. Nashef, Cambridge
A standard operating procedure for root abscess
*M. Borger, New York*

A standard operating procedure for aortic dissection
*M. Grabenwöger, Vienna*

A standard operating procedure for pulmonary embolus
*R. Haaverstad, Bergen*

A standard operating procedure for ischemic ventricular septal defect
*A. De Souza, London*

A standard operating procedure weaning patients from bypass
*F. Beyersdorf, Freiburg*

Wrap up
*F. Mohr, Leipzig*

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**16:00-17:30  Focus Session**

**Botticelli**

**Translational cardiovascular research**

Moderators: G. Ferrari, Philadelphia; J. B. Grau, Ridgewood

**16:00**
Subclinical aortic valve disease: new tools for risk stratification and therapy
*G. Ferrari, Philadelphia*

**16:15**
Clinical implication of genomics in the use of bilateral internal mammary artery for coronary artery bypass graft
*J. Grau, Ridgewood*

**16:30**
Decellularized whole heart for bioartificial heart
*P. Akhyari, Düsseldorf*

**16:45**
Biological features of thoracic aortic diseases. Where are we now, where are we heading to: established and emerging biomarkers and molecular pathways
*A. Parolari, Milan*

**17:00**
Cellular mechanism driving fibrosis and matrix remodeling in myxomatous mitral valves
*J. Miller, Rochester*

**17:15**
Tricuspid valve replacement with as decelluraised extra cellular matrix cylinder. The reason behind remodelling after implantation
*J. Cox, St Louis*

**17:25**
Wrap up
*G. Ferrari, Philadelphia*
Treating Mitral regurgitation in 2014 with percutaneous mitral valve repair

*Moderators: H. Reichenspurner, Hamburg*
*Panel: M. Acker, Philadelphia; S. von Bardeleben, Mainz*

**Learning objectives:**
- Multidisciplinary team approach matters;
- MitraClip = Expansion of treatment options for your patient;
- Why surgeons are key

**16:00**
Who can we treat or refer for MitraClip?
*S. Price, London*

**16:30**
When can we treat with or refer for MitraClip?
*O. Alfieri, Milan*

**17:00**
Why should I treat with or refer my patient to MitraClip?
*H. Treede, Hamburg*

*This session is supported by an unrestricted educational grant from Abbott Vascular*

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**16:00-17:30 Simulation Session**

Endoscopic port-access mitral valve repair drylab training using high-fidelity simulators

See page 54 for programme details
08:30-10:00 Session 1: Cannulation and extraction techniques - Putting it in and taking it out

 Moderators: C. Starck, Zürich; T. M. Sundt, Boston

 08:30
 Old leads - new problems
 H. Burger, Bad Nauheim

 08:40
 Video: Lead extraction: laser or sheath
 C. Starck, Zürich

 08:50
 Lead extraction: do’s and don’ts
 J. Clague, London

 09:00
 Panel discussion

 09:15
 Video: Cannulation technique: femoral in redo surgery
 F. De Robertis, Harefield

 09:25
 Video: Cannulation technique: subclavian
 F. De Robertis, Harefield

 09:35
 Video: Carotid artery and jugular vein cannulation in aortic redo surgery
 P. Urbanski, Bad Neustadt

 10:30 - 12:00 Session 2: Part II: Cannulation and extraction techniques - Putting it in and taking it out

 Moderators: C. Starck, Zürich; T. M. Sundt, Boston

 10:30
 Strategy of cannulation: Minimally invasive valve surgery
 M. De Bonis, Milan

 10:40
 Panel discussion

 10:50
 Strategy of cannulation: redo
 U. Rosendahl, London

 11:00
 Acute dissection: strategy of cannulation
 J. Bavaria, Philadelphia

 11:10
 Video: Cannulation technique: Left ventricular apex
 J. Coselli, Houston
11:20
Panel discussion

11:30
Video: Optimizing venous grafting: Endoscopic vein
R. Yadav, London

11:40
Video: Endoscopic radial artery
P. Davierwala, Leipzig

11:50
Panel discussion

09:00-10:30 Advanced Techniques

Transcatheter aortic valve implantation complications
Moderators: N. Moat, London; H. Treede, Hamburg
Panel: G. Dahle, Oslo; T. A. Folliguet, Vandoeuvre Les Nancy

09:00
How important are embolic events?
H. Treede, Hamburg

09:10
Paravalvular leak: can we measure it, can we prevent it?
T. Folliguet, Vandoeuvre Les Nancy

09:20
Circulatory support for high risk transcatheter aortic valve implantation
N. Moat, London

09:30
Panel discussion

09:45
Valve embolization: how to prevent, how to retrieve
G. Dahle, Oslo

09:55
Coronary obstruction: practical tips
S. Davies, London

10:05
Ilio-femoral problems: stenting or surgery?
H. Treede, Hamburg

10:15
Panel discussion
08:30 - 10:00 Session 1: Fine-tuning coronary revascularization

**Moderators:** G. D’Ancona, Palermo; M. G. Lemma, Milan

**Panel:** D. Glineur, Bouge; J. D. Puskas, Atlanta; R. Yadav, London

**08:30**
Fractional flow reserve and instantaneous wave-free ratio for the surgeon

*S. Davies, London*

**08:40**
Panel discussion

**08:50**
Intraoperative graft patency control: Transit time

*T. Kieser, Calgary*

**09:00**
Intraoperative graft patency control: SPY

*T. Kieser, Calgary*

**09:10**
Intraoperative graft patency control: Doppler

*T. Holubec, Zürich*

**09:20**
Panel discussion

**09:30**
Optimizing arterial grafting: Configuration

*B. Buxton, Melbourne*

**09:40**
Optimizing arterial grafting: Internal mammary artery harvesting

*S Papadatos, Bouge*

**09:50**
Panel discussion

10:30 - 12:00 Session 2: Optimizing arterial grafting: Configuration

**Moderators:** D. Fullerton, Aurora; A. J. Rastan, Rotenburg

**Panel:** P. Brichon, Grenoble; D. Glineur, Bouge; J. D. Puskas, Atlanta

**10:30**
Optimizing arterial grafting: Endoscopic radial

*T. Bahrami, Harefield*

**10:40**
Optimizing venous grafting: Endoscopic vein

*T. Bahrami, Harefield*

**10:50**
Panel discussion

**11:05**
How to do minimally invasive coronary artery bypass

*S. Jacobs, Zürich*
08:30-13:00  Advanced Techniques

09:00 - 10:30 Session 1: Controversies and catastrophes in adult cardiac surgery
Moderators: R. Haaverstad, Bergen; C Nienaber, Rostok; M. Shrestha, Hannover

Learning objectives:
The objective of this session is to discuss in different controversial topics in adult cardiac surgery in an objective way. Faculty members are experts in different fields of cardiac surgery and will be talking about ‘controversial topics

09:00
Introduction
M. Shrestha, Hannover

09:10
Patients with acute aortic dissection: Type I should never get mechanical valves
E. Roselli, Cleveland

09:30
Endovascular aneurysm repair will be the gold standard for peri-renal aortic aneurysms
A. Chavan, Oldenburg

09:50
Thoracic endovascular aortic repair for all Type B aortic dissections
A. Khoynezhad, Los Angeles

10:10
The era of separate cardiac surgery and cardiology departments is over: ‘The heart department’ has arrived
B. Schieffer, Marburg

10:40 - 13:00 Session 2: Controversies and catastrophes in adult cardiac surgery
Moderators: G. P. Fontana, New York, M. Shrestha Hannover,

10:40
Innovations in cardiac valve prostheses: the view from the other side
A. Campbell, Irvine

11:00
Rapid Deployment/ Sutureless valves: unforeseen complications and ways to avoid them
M. Shrestha¹, M. Glauber², M. Schmoeckel², A. Martens¹; ¹Hannover, ²Massa, ³Hamburg
Introduction to mitral valve repair & Wetlab

Moderators: S. Cánovas, Murcia; S. Livesey, Southampton; J. I. Saez De Ibarra, Palma De Mallorca

09:00
Introduction and aims of the programme anatomy of the mitral valve; Pathophysiology of mitral regurgitation; Carpentier Classification; Leaflet pathologies; Essential echo for the surgeon
S. Livesey, Southampton

09:20
Approaches to the mitral valve; surgical exposure; Valve analysis; Principles of valve repair; Role of annuloplasty rings
J. I. Saez De Ibarra, Palma De Mallorca

09:40
Surgical techniques - leaflet resection; Artificial chords; Ring sizing and implantation; The water test; Complications of mitral valve repair
S. Cánovas, Murcia

10:00
Orientation and anatomy

10:20
Triangular resection

10:40
Implantation of artificial chords

11:00
Ring implantation

This wetlab is restricted to 40 participants. Registration fee €50 via the registration desks on site.

Advanced transcatheter aortic valve implantation - Computerised tomography imaging for surgeons & Drylab

Moderators: V. Alvarez Asiain, Pamplona; R. Sádaba, Pamplona

Learning objectives:
To understand the information required for an adequate planning of transcatheter aortic valve implantation including candidate selection, choice of access route and type of prosthesis. To learn how to analyse, interpret and apply this information with new tools for computed tomography imaging.

09:00
Information required for the planning of transcatheter aortic valve implantation
R. Sádaba, Pamplona

09:20
Computerised tomography imaging for the selection of patients, access route and type of prosthesis
V. Delgado, Leiden

09:45
Evaluation of selected cases with a CT image guidance tool in small groups with experts in the field
V. Alvarez Asiain, Pamplona

This drylab is restricted to 28 participants. Registration fee €50 via the registration desks on site.
Aortic valve repair/sparing for bicuspid and tricuspid valve - Wetlab

09:00
Rationale of annuloplasty to standardize aortic valve repair
*E. Lansac, Paris*

09:20
Effective height and geometric height to standardize cusp repair
*D. Aicher, Homburg/Saar*

09:40
Repair of isolated aortic insufficiency
*J. Hlubocky, Prague*

10:00
AVIATOR: an international registry to evaluate aortic valve repair
*J. Kluin, Utrecht*

10:20
Wetlab
*This wetlab is restricted to 40 participants. Registration fee €50 via the registration desks on site.*

How to do it: with live in a box

*Moderators: J. L. Pomar, Barcelona; E. Quintana, Rochester; P. Sardari Nia, Maastricht*

09:00
Single port lung resections
*D. Gonzalez, Coruña*

09:20
Minimally invasive lung volume reduction
*M. Scarci, Cambridge*

09:40
Pulmonary embolectomy
*S. Mussot, Le Plessis Robinson*

10:00
Mini-aortic valve replacement with sutureless valves
*P. Sardari Nia, Maastricht*

10:20
David procedure
*G. El Khoury, Brussels*

10:40
Port-access double valve repair
*M. Bentala, Breda*

11:00
Hybrid atrial fibrillation therapy
*M. La Meir, Brussels*
11:20
Transcatheter valve in valve
M. Borger, New York

11:40
Right ventricle outflow tract reconstruction with homograft
R. Prêtre, Lausanne

08:15-09:45   Simulation Session

Endoscopic port-access mitral valve repair drylab training using high-fidelity simulators

See page 54 for programme details
Thoracic Disease Domain Programme
Chair

Franca Melfi - Pisa, Italy

Franca Melfi undertook her medical studies at the University of Pisa and in 1995 became a specialist in thoracic surgery. Her particular interests are in robotic surgery and lung cancer (specifically, sentinel lymph-node). She is presently staff thoracic surgeon and the Director of the Multidisciplinary Robotic Center within the cardio-thoracic department of Pisa's University Hospital where she is currently involved in research projects and academic activities, including teaching post-degree courses and tutoring on robotic procedures.

Thoracic Disease Academy Programme 2015

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All courses to take place at EACTS House in Windsor, UK, unless stated otherwise.
## Thoracic Disease Domain Programme

**Chair:**
Franca Melfi, Pisa  
Giuseppe Cardillo, Rome  
Godehard Friedel, Gerlingen  
Marcelo F. Jimenez, Salamanca  
Peter B. Licht, Odense  
Douglas J. Mathisen, Boston  
Jose Ribas Milanez De Campos, Sao Paulo  
Pala Babu Rajesh, Birmingham  
Marcin Zielinski, Zakopane

**Ex officio:**
Paul E. Van Schil, Edegem (Antwerp)  
A. Pieter Kappetein, Rotterdam  
Ralph A. Schmid, Berne

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09:00 - 12:30 Chest wall deformities, trauma and tumours: Part I

**Moderators:** K. Athanassiadi, Athens; J. De Campos, Sao Paulo; G. Rocco, Naples; R. A. Schmid, Berne

Technical modifications of the Nuss procedure
H. K. Pilegaard, Aarhus

External compression in the correction of typical and atypical pectus carinatum
M. Lopez Paredes, Saint-Étienne

Minimally invasive treatment of pectus carinatum
O. Tiffet, St. Etienne

The vacuum bell experience for pectus excavatum
F. Haecher, S. Sesia; Basel

The Marmara experience in chest wall deformities
K. Bostanci, Istanbul

13:30 - 18:00 Chest wall deformities, trauma and tumours: Part II

**Moderators:** K. Athanassiadi, Athens; J. De Campos, Sao Paulo; G. Rocco, Naples; R. A. Schmid, Berne

Sternal cleft repair
J. R. M. De Campos, Sao Paulo

Chest wall reconstructions
M. Kalkat, Birmingham

Chest wall trauma
G. Friedel, Gerlingen

Sternal complications after surgery
F. Rea, Padua

Biological chest wall support
D. Miller, Atlanta

Nightmare in chest wall deformities and reconstructions
A. Hebra, Charleston

Experimenting new material and ideas in how to treat pectus excavatum
A. Messineo, Florence

The management of complex infection of sternum
M. P. Tocco, Rome

**Live surgery – Chest wall deformities, trauma and tumours**
M. Yuksel¹, H. K. Pilegaard²; ¹Istanbul, ²Aarhus
08:30-10:00  Plenary Session  
Gold Room

Delivering value in healthcare: A vision for innovation  
Moderators: D. Pagano, Birmingham; P.E. Van Schil, Edegem (Antwerp)

08:30  
From paternalism to partnership  
J. Rich, Norfolk  

08:50  
Getting more from less  
B. Keogh, London  

09:10  
Leadership  
D. Wood, Seattle  

09:30  
Innovation and industry: a new understanding  
A. Lansky, New Haven  

09:50  
Panel discussion  

13:00-15:00  Circulating Viewpoints  
Brown 3

Paternalism to partnership: sharing the responsibility  
Moderators: A.P. Kappetein, Rotterdam; J. Pepper, London

Learning objectives:  
We raise a number of questions, and in the last 5 minutes, assess if we found any answers to the following questions:  
Can we take on high risk cardiothoracic operations within the rules of clinical governance?  
Do we understand the patient-doctor partnership?  
What is the duty of candour?  
Do patients and doctors understand risk?  
What are the ethics of self-disclosure?  
Who carries the ultimate responsibility: surgeon or multidisciplinary team group?  
What does the patient understand by “success”? Survival alone may not constitute a “victory”.  

13:00  
Low mortality or failure to rescue  
S. Westaby, Oxford  

13:30  
Success from the patient point of view  
T. Goldsworthy, Tewkesbury  

14:00  
Doctor please explain the treatment  
B. Leigh, London  

14:30  
The risk of high risk surgery  
F. Mohr, Leipzig
10:30 - 12:00: Session 1: Interactive session on management of lung cancer staging- clinical implications

*Moderators: D. Waller, Leicester ; L. Spaggiari, Milan*

**Learning objectives:**
The participants will discuss the new guidelines for lung cancer staging and the different available methods to stage the patients and the appropriate treatment for every stage.

10:30

T3/T4: borderline cases

*M. Dusmet, London*

11:00

Illustrative case

*G. Friedel, Gerlingen*

11:30

Difficult EBUS-TBNA interpretation cases

*M. Jimenez, Salamanca*

12:00-12:30 Break

12:30-14:00 Session 2: Oligometastatic diseases

*Moderators: F. De Marinis, Milan; D.J. Mathisen, Boston*

**Learning objective:** The attendees will understand how to deal with the patients with oligometastatic diseases, and indications for surgery.

12:30

Illustrative cases

*P. B. Licht, Odense*

13:00

Synchronous bilateral lung neoplasm with liver metastases: the case for surgical treatment

*G. Cardillo, Rome*

13:30

Long-term follow-up after resection of lung cancer with a femoral bone metastasis

*P. Van Schil, Edegem (Antwerp)*

14:30-16:00 Session 3: Intraoperative complications

*Moderators: M. Dusmet, London; E.A. Rendina, Rome*

**Learning objectives:**
The participants will discuss how to prevent and manage intraoperative complications.

14:30

Illustrative case

*P. Licht, Copenhagen*

14:50

Suddenly I can’t ventilate this patient and the blood pressure is dropping!

*D. Waller, Leicester*
15:10
Lung cancer and pleural empyema
C. K. C. Choong, Melbourne

15:30
A big, bad case of intraoperative air leak
A. Sihoe, Hong Kong

10:15-16:00   Postgraduate Education   Amber 5

Nurse, Nurse Practitioners and Physician Assistants Programme
See page 45 for programme details

10:30-16:30   Professional Development   Suite 4

Teach the Teacher
See page 46 for programme details
Thoracic oncology I

Moderators: G. J. Kocher, Berne; P. B. Licht, Odense; F. M. Melfi, Pisa

Learning objectives: To evaluate the assessment and the treatment of patients with pulmonary metastases

08:15 032
The prognostic impact of lymph node dissection in pulmonary metastasectomy
S. Shiono¹, N. Matsutan², S. Okumura², J. Nakajima², H. Horio², M. Kohno², N. Ikeda², M. Kawamura²; ¹Yamagata (Japan), ²Tokyo (Japan)

Discussant: U. Pastorino, Milan

08:30 033
Endobronchial ultrasound-guided transbronchial needle aspiration is a highly sensitive method to evaluate patients who should not undergo pulmonary metastasectomy
J. Eckardt, P. B. Licht; Odense (Denmark)

Discussant: G. Kocher, Berne

08:45 034*
Survival following pulmonary metastasectomy for sarcoma
L. Okiror¹, A. Peleki², D. Moffat², A. Rajesh², R. Grimer², M. Kalkat²; ¹West Wickham (UK), ²Birmingham (UK), ³Milan (Italy)

Discussant:

09:00 035
Long-term results and prognostic factors of pulmonary metastasectomy in patients with metastatic transitional cell carcinoma
L. Luzzi¹, G. Marulli², P. Solli³, G. Cardillo⁴, M. Ghisalberti⁴, F. Carleo⁴, L. Spaggiari⁴, F. Rea²; ¹Siena (Italy), ²Padua (Italy), ³Milan (Italy), ⁴Rome (Italy)

Discussant: M. Dusmet, London

09:15 036
Extended pulmonary metastasectomy: Is it worthwhile?
M. Casiraghi¹, P. Solli¹, F. Petrella², J. Guarize¹, L. Spaggiari¹; ¹Milan (Italy), ²Busto Arsizio - Varese (Italy)

Discussant: P. B. Licht, Odense

09:30 037
Intraoperative diagnosis of lymph node metastasis in non-small-cell lung cancer by semi-dry dot-blot (SDB) method
K. Tomoshige¹, T. Tsuchiya², N. Yamasaki², K. Matsumoto², T. Miyazaki², T. Nagayasu²; ¹Omura-city (Japan), ²Nagasaki (Japan)

Discussant: R. Schmid, Berne
Recurrent primary spontaneous pneumothorax is more common than previously reported

W. Olesen1, N. Katballe2, J. Sindby3, I. Titlestad1, R. Jacobsen1, P. Andersen1, P. B. Licht1;
1Odense (Denmark), 2Aarhus (Denmark), 3Aalborg (Denmark)

Discussant: G. Cardillo, Rome

Risk factors for postoperative recurrence of spontaneous pneumothorax treated by video-assisted thoracoscopic surgery

A. Imperatori, N. Rotolo, M. Spagnoletti, L. Festi, F. Berizzi, D. Di Natale, E. Nardecchia, L. Dominioni; Varese (Italy)

Discussant: O. Fanucchi, Pisa

Juvenile catamenial pneumothorax: An institutional report and review

T. Inoue1, M. Chida1, H. Inaba2, H. Inoue1, Y. Karube1, N. Seki1, S. Kobayashi1, T. Oyaizu1;
1Mibu (Japan), 2Shizuoka (Japan)

Discussant: P. Cirìaco, Milan

Postoperative air leak management with intrapleural instillation of fresh frozen plasma

F. Konstantinou, K. Potaris, K. Syrigos, P. Tsipas, G. Karagkiouzis, M. Konstantinou; Athens (Greece)

Discussant: M. Zielinski, Zakopane

Digital versus analogue chest tube drainage following lobectomy: A randomised trial

M. Lijkendijk1, P. B. Licht2, K. Neckellmann2; 1Copenhagen (Denmark), 2Odense (Denmark)

Discussant: M. Ibrahim, Rome

The predictive role of “physiological” heterogeneity in the outcome of lung volume reduction surgery

S. Tenconi1, I. Oey1, G. Carnassale2, S. Rathinam1, D. Waller1; 1Leicester (UK), 2Rome (Italy)

Discussant:
10:30  078*
Surgical outcomes after pulmonary resection for non-small-cell lung cancer with unexpected pleural metastasis first detected during surgery
J. K. Yun, Y. Kim, G. D. Lee, S. H. Choi, H. R. Kim, D. K. Kim, S. Park; Seoul (Korea)
Discussant: G. Cardillo, Rome

10:45  079
Video-assisted mediastinoscopic lymphadenectomy combined with video-assisted thoracic surgery for left-sided lung cancer: Experience from 225 consecutive cases
H. J. Kim, S. H. Choi, H. R. Kim, D. K. Kim, S. Park, Y. Kim; Seoul (Korea)
Discussant: K. Athanassiadis, Athens

11:00  080
Surgical results of lung cancer with synchronous multiple ground-glass opacities and the management of the residual and new lesions
Y. Shimada, K. Yoshida, Y. Kato, M. Hagiwara, M. Kakiwana, N. Kajiwara, T. Ohira, N. Ikeda; Tokyo (Japan)
Discussant: D. Waller, Leicester

11:15  081*
A comparison study of the proposed classifications for the revision of the N descriptors for non-small-cell lung cancer
G. D. Lee, D. K. Kim, S. H. Choi, H. R. Kim, Y. Kim, S. Park; Seoul (Korea)
Discussant: U. Pasterino, Milan

11:30  082
Pathologic risk factors for recurrence in early stage lung adenocarcinoma
H. Shin¹, E. Yi¹, J. Lee¹, J. Chung¹, K. Kim², S. Jheon¹, S. Cho¹; ¹Seongnam (Korea), ²Gyeonggi-do (Korea)
Discussant: M. Dusmet, London

10:15-11:45  Abstract Session

Mediastinum

Moderators: G Shahin, Nieuwegein; M. Kalkat, Birmingham; E. A. Rendina, Rome

Learning objectives:
To increase knowledge of the tumours of the thymus including treatment of recurrent disease.

10:15  083
Surgical treatment of recurrent thymoma: Is it worthwhile?
G. Marulli¹, S. Margaritara², G. Cardillo², M. Lucchii³, A. Mussi³, P. Granone², F. Carleo², F. Rea¹; ¹Padua (Italy), ²Rome (Italy), ³Pisa (Italy)
Discussant: P. B. Rajesh, Birmingham

10:30  084
Surgical management of thymoma and thymic carcinoma: Results in 158 patients
M. Infante¹, E. Voulaz², E. Passera³, E. Bottini², A. Crepalda², V. Enrico², M. Andreis², M. Alloisio²; ¹Rozzano (MI) (Italy), ²Rozzano (Italy), ³Bergamo (Italy)
Discussant: M. Kalkat, Birmingham

10:45  085
Predictive factors of myasthenic crisis after extended thymectomy for patients with myasthenia gravis
T. Ando, M. Omasa, T. Kondo, T. Yamada, T. Menju, T. Sato, F. Chen, H. Date; Kyoto (Japan)
Discussant: M. Lucchi, Pisa
11:00 086
Pleural recurrence of thymoma: Surgical resection followed by hyperthermic intra-thoracic perfusion chemotherapy
S. Korasidis, M. Ambrogi, S. Giarratana, M. Lucchi, F. Melfi, A. Mussi; Pisa (Italy)
Discussant: M. Zielinski, Zakopane

11:15 087
The contact length between the tumour contour and lung on computed tomography is a risk factor for pleural recurrence after complete resection of thymoma
Discussant: L. Luzzi, Siena

11:30 088
Clinical results of surgical resection of mediastinal teratoma: Efficacy of video-assisted thoracic surgery using the cyst score
S. K. Hwang, D. K. Kim, S. Park, Y. Kim, H. R. Kim, S. H. Choi; Seoul (Korea)
Discussant: E. Rendina, Rome

10:15-11:45 Focus Session Amber 6
Pro and Cons debates
See page 59 for programme details

11:50-12:30 The Presidential Address Gold Room
The versatile beauty of the hand: mysterious, powerful and ingenious
P. Van Schil, Edegem (Antwerp)

14:15-15:45 Abstract Session Brown 2
Chest wall
Moderators: J. R. M. De Campos, Sao Paulo; M. S. Kalkat, Birmingham
Learning objectives:
To identify the unique characteristics of surgical diseases involving chest wall

14:15 119
Accuracy of transthoracic ultrasound for the prediction of chest wall infiltration by lung cancer and of lung infiltration by chest wall tumours
G. Caroli¹, A. Dell’Amore², N. Cassanelli¹, G. Dolci¹, N. Asadi¹, E. Pipitone³, F. Stella¹, A. Bini¹; ¹Bologna (Italy), ²Imola (Italy), ³San Lazzaro (Italy)
Discussant: M. Kalkat, Birmingham

14:30 120
Ultrasound-assisted treatment of sternocutaneous fistula in poststernotomy cardiac surgery patients
L. Tewarie¹, A. Moza¹, R. Zayat¹, A. Goetzennich¹, A. Menon², R. Autschbach¹; ¹Aachen (Germany), ²Berlin (Germany)
Discussant: H. K. Pilegaard, Aarhus
14:45  121  Audit of trauma practice in a tertiary referral thoracic surgical centre in the UK
N. Ismail1, R. Vaja1, V. Joshi2, A. Nakas1, D. Waller1, S. Rathinam1; 1Leicester (UK), 2Nottingham (UK)
Discussant: K. Athanassiadi, Athens

15:00  122  Predictors of complications after pectoralis major transposition for sternal dehiscence
S. Molenkamp, T. Waterbolk, M. Mariani, P. Werker; Groningen (Netherlands)
Discussant: M. P. Tocco, Rome

15:15  123  The morphology of the thorax and heart in patients with pectus excavatum, and the changes after surgical correction
H. Iida1, K. Watanabe2, T. Ohashi3; 1Kasugai, Aichi (Japan), 2Kamakura (Japan), 3Kasugai (Japan)
Discussant: M. Yuksel, Istanbul

15:30  124  Primary malignant chest wall tumours: Analysis of 40 patients
R. Bagheri, S. Z. Haghi, M. R. Kalantari, A. Shanfian Attar, M. Salehi, A. Tabari, M. Soudaneh; Mashhad (Iran)
Discussant: L. Spaggiari, Milan

14:15-15:45  Focus Session
Amber 6
Nightmares in cardiothoracic surgery
See page 66 for programme details

16:00-17:30  Abstract Rapid Response Session
Brown 3
Thoracic rapid response
Moderators: K. Athanassiadi, Athens; C. K. C. Choong, Melbourne; P. B. Rajesh, Birmingham; E. A. Rendina, Rome
Learning objectives:
To offer an overview of some aspects of thoracic pathology through an original and fast expert presentation

16:00  151-I  Suction on chest drains following lung resection: Evidence and practice are not aligned
P. Lang1, M. Manickavasagar1, C. Burdett2, F. Fiorentino3, T. Treasure4, UK Cardiothoracic Trainees' Research Collaborative5; 1Brighton (UK), 2Newcastle (UK), 3London (UK), 4Badlesmere (UK)

16:09  152-I  Patch replacement of left hemidiaphragm in dogs by cryopreserved heterograft
H. Davari1, M. Rahim1, N. Tanide2, M. Sani2, H. Tavakoli1, A. Rasheki2, S. Gholami2, A. Monabberti2; 1Tehran (Iran), 2Shiraz (Iran)

16:18  153-I  The effect of diaphragmatic plication on chest wall dynamics
G. Elishafe1, J. Acosta Canon1, A. Aliverti2, A. Bradley1, K. Parker1, P. Rajesh1, B. Naidu1; 1Birmingham (UK), 2Milan (Italy)
Upfront tracheal resection and anastomosis for post-intubation tracheal stenosis: Is there still a role for endoscopic dilatation?
H. Elsayed, A. Mostafa, S. Soliman, T. Sobhy, H. Elbawab; Cairo (Egypt)

Plasmatic soluble epidermal growth factor receptor isoforms as biomarker in non-small-cell lung cancer patients
F. M. Lococo, M. Paci, S. Maramotti, C. Rapicetta, S. Cavuto, T. Ricchetti, G. Sgarbi; Reggio Emilia (Italy)

A novel technique using preoperative lipiodol marking and fluoroscopy to identify an adequate resection margin in thoracoscopic segmentectomy for deep seated non-palpable ground-glass nodules
Y. Hwang, I. K. Park, C. H. Kang, Y. T. Kim; Seoul (Korea)

Salvage surgery after definitive chemoradiotherapy for non-small-cell lung cancer
M. Casiraghi1, P. Solli1, F. De Marinis1, F. Petrella2, J. Guarize1, L. Spaggiari1; 1Milan (Italy), 2Busto Arsizio - Varese (Italy)

Discharge of thoracic patients with portable suction drainage devices: Are they cost effective?
D. Southey, D. Pullinger, S. Loggos, N. Kumari, I. Morgan, P. Yiu, J. Nandi, H. Luckraz; Wolverhampton (UK)

Extracorporeal membrane oxygenation in thoracic surgery
M. Erol, I. Kan, H. Melek, A. Bayram, M. Bicer, I. Siıınak, C. Gebitekin; Bursa (Turkey)

T3 sympathectomy versus T3 sympathicotomy for palmar hyperhidrosis: Evolution of plantar hyperhidrosis
M. Coelho, R. F. Kuenzer Caetano Da Silva, P. Guimarães, A. Francisco, A. F. Santos; Curitiba (Brazil)
Thoracic oncology III

Moderators: M. Lucchi, Pisa; A. Nakas, Leicester

Learning objectives:
Improving participants’ awareness of the clinical role of extrapleural pneumonectomy and pleurectomy/decortication for treating mesothelioma. Relevant aspects in the treatment of non-small cell lung cancer will also be discussed

08:15 198
Surgical management of malignant pleural mesothelioma by extrapleural pneumonectomy: A single-institution experience
M. Infante¹, E. Bottoni², A. Morlacchi², E. Morenghi², A. Testori², E. Voulaz², V. Errico², M. Alloisio²; ¹Rozzano (Mi) (Italy), ²Rozzano (Italy)
Discussant: A. Nakas, Leicester

08:30 199
Surgical management of malignant pleural mesothelioma by pleurectomy-decortication with curative intent: A single-institution experience
M. Infante¹, A. Morlacchi², E. Bottoni², E. Morenghi², A. Testori², G. Ferraroli², U. Cariboni², M. Alloisio²; ¹Rozzano (Mi) (Italy), ²Rozzano (Italy)
Discussant: G. Cardillo, Rome

08:45 200
The influence of visceral pleural invasion on the survival in completely resected non-small-cell lung cancer: Is the definition of 7th Edition of the TNM staging system for lung cancer suitable?
H. Adachi¹, T. Morohoshi², S. Saito², M. Hashimoto², T. Nagashima¹, T. Nishii¹, M. Tsuboi¹, M. Masuda¹; ¹Yokohama (Japan), ²Yokosuka (Japan)
Discussant: G. Marulli, Padua

09:00 201
Clinical impact of radical loco-regional surgery in synchronous oligometastatic non-small-cell lung cancer
A. Viti, L. Bertolaccini, E. Russi, M. Merlano, L. Colantonio, A. Terzi; Cuneo (Italy)
Discussant: C. K. C. Choong, Melbourne

09:15 202
The relative contribution of imaging, invasive staging and thoracotomy in detecting pathologic N2 disease in the era of positron emission tomography–computed tomography
M. Castiglioni, R. Aye, J. Gorden, A. Farivar, B. Louie, E. Vallières; Seattle (USA)
Discussant: L. Spaggiari, Milan

09:30 203
The number of lymph nodes removed and postoperative outcome for patients with clinical T1aN0M0 non-small-cell lung cancer
T. Yamamoto, T. Maehara, M. Tsuboi, M. Masuda; Yokohama (Japan)
Discussant: K. Athanassiadi, Athens
Thoracic non oncology II

Moderators: F. M. Melfi, Pisa; A. Sihoie, Hong Kong; C. Zirafa, Pisa

Learning objectives:
To understand the principles of surgical treatment of uncommon and challenging conditions

08:15 204
Congenital bronchiectasis
T. Eshmuratov, B. Shirtaev, M. Sundetov, N. Zharylkapov, N. Zhunisov, A. Eleusizov, R. Kasenbaev, B. Akimniyazova; Almaty (Kazakhstan)
Discussant: A. Gonfiotti, Firenze

08:30 205
The management of bronchial stumps in anatomical lung segmentectomy
H. Oizumi, H. Kato, M. Endoh, J. Suzuki, H. Watarai, M. Sadhiro; Yamagata (Japan)
Discussant:

08:45 206
Significant changes in trauma presentation during the first three years of a UK major trauma centre
S. Chaubey, H. Khan, P. Mandhu, M. Uzzaman, A. Zaheer, M. Baghai, D. Whitaker; London (UK)
Discussant: P. Rajesh, Birmingham

09:00 207
Successful treatment of complicated post-pneumonectomy bronchopleural fistula with autogenous corticocancellous bone graft
V. Chittithavorn, C. Rergkliang, P. Duangpakdee; Hatyai (Thailand)
Discussant: D. Mathisen, Boston

09:15 208
The use of video-assisted thoracoscopic surgery in the treatment of lung hydatid cysts
L. Alpay, T. Lacin, I. Ocakcioglu, S. Evman, T. Dogruyol, M. Vayvada, V. Baysungur, I. Yalcinkaya; Istanbul (Turkey)
Discussant: D. Subotic, Belgrade

09:30 209
Results of laryngotracheal resection and anastomosis with posterior cricoidotomy in thirty-one patients
F. Sadegh Beigee, S. Pojhan, A. Daneshvar Kakhaki, K. Shiekhly, S. R. Saghebi, M. B. Shadmehr, A. Abbasidezfouli; Tehran (Iran)
Discussant: S. Mussot, Le Plessis Robinson

08:15-09:45 Focus Session

Meet the experts

See page 77 for programme details
Oesophagus

Moderators: D. J. Mathisen, Boston; S. Rathinam, Leicester; D. E. Wood, Seattle

Learning objectives:
The participants will learn the best way to work up and treat esophageal diseases

10:15 239
Five-year survival of upper third oesophageal cancer patients was significantly superior in comparison with middle and lower third oesophageal cancer patients after radical surgery and strongly depended on phase transition early-invasive cancer, lymph node metastases, cell ratio factors and adjuvant chemoimmunoradiotherapy
O. Kshivets, Kaluga (Russian Federation)
Discussant: D. Wood, Seattle

10:30 240
External validation of the Ferguson pulmonary risk score for predicting major pulmonary complications after oesophagectomy
J. M. Reinersman¹, M. Ferguson², M. Allen¹, C. Deschamps¹, F. Nichols¹, R. Shen¹, D. Wigle¹, S. Cassivi¹; ¹Rochester (USA), ²Chicago (USA)
Discussant: S. Rathinam, Leicester

10:45 241
Successful staged surgical treatment for aorto-oesophageal fistula
Y. Shirakawa¹, T. Kuratani¹, K. Torikai², T. Sakamoto², T. Shijo¹, Y. Watanabe², Y. Sawa²; ¹Suita (Japan), ²Osaka (Japan)
Discussant: A. Oliaro, Turin

11:00 242
Repair of post-intubation tracheoesophageal fistulas through the left pre-sternocleidomastoid approach: A recent case series of 13 patients
C. N. Foroulis, C. Nana, A. Kleontas, G. Tagarakis, P. Tossios, K. Anastasiadis; Thessaloniki (Greece)
Discussant: S. Mussot, Le Plessis Robinson

11:15
Evolution of treatment of oesophageal surgery
D. Mathisen, Boston

Lung transplantation

Moderators: J. Dark, Newcastle Upon Tyne; W. Klepetko, Vienna

Learning objectives:
To understand indications, patient assessment and outcomes of lung transplantation.

10:15 243*
Long-term results after lung transplantation using organs from donation after circulatory death compared to donation after brain death: A propensity score matched analysis
A. Sabashnikov, A. Popov, B. Zych, D. Garcia Saez, F. De Robertis, M. Amrani, T. Bahrami, A. Simon; Harefield (UK)
Discussant: H. J. Ankersmit, Vienna
10:30 A global analysis of contemporary trends in lung re-transplantation: A question of selection

J. Hayanga1, M. Plets1, A. Woodwyk1, H. Kaiser2, R. Girgis1, A. Khaghani1; 1Grand Rapids (USA), 2Baltimore (USA)

Discussant: R. Schmid, Berne

10:45 A risk model to predict late-onset chronic renal failure post lung transplantation

J. Hayanga¹, J. Aboagye², H. Kaiser², R. Girgis¹, A. Khaghani¹, J. D'Cunha²; ¹Grand Rapids (USA), ²Baltimore (USA), ³Pittsburgh (USA)

Discussant: G. Kocher, Berne

11:00 Early experience with the Organ Care System (OCS) for donor lung preservation in lung transplantation

M. Schiavon, A. Rebusso, G. Marulli, C. Breda, G. Di Gregorio, M. Loy, S. Nicotra, F. Rea; Padua (Italy)

Discussant: A. Bertani, Palermo

11:15 The Munich Lung Transplant Group: Use of intraoperative extracorporeal device with low versus high heparinisation in lung transplantation

D. Hoechter, V. Von Dossow Hanfstingl, S. Czerner, D. Bruegger, H. Winter, G. Preissler, B. Zwissler, R. Schramm; Munich (Germany)

Discussant: W. Klepetko, Vienna

11:30 Blood transfusion after lung transplantation: Impact on early function and survival

L. P. Ong, Z. Tristan, H. Muse, K. Wallace, S. Whitehead, G. Parry, S. Clark; Newcastle Upon Tyne (UK)

Discussant: L. Voltolini, Siena

10:15-11:45 Focus Session

Training in minimally invasive cardiothoracic surgery

See page 84 for programme details

11:50-11:55 Fontan Prize Presentation

Gold Room

11:55-12:00 Update on Multimedia Manual of Cardio-Thoracic Surgery

M. Turina, Zürich

Gold Room

12:00-12:30 The Honoured Guest Lecture

Gold Room

Thoracic Disease 122 Tuesday 14 October 2014
The Clash of the Titans returns!

See page 84 for programme details

Basic science

**Moderators:** H. J. Ankersmit, Vienna; P. B. Licht, Odense

**Learning objectives:**
To improve knowledge in the field of basic science and to understand the relevance that basic science has in clinical practice

14:15 283*
Discovery of different temporal free radical bursts during pulmonary ischaemia-reperfusion injury

J. Gielis¹, G. Boulet², J. Briedé³, T. Horemans¹, T. Debergh¹, M. Kusse¹, P. Cos², P. Van Schil²; ¹Edegem (Belgium), ²Wilrijk (Belgium), ³Maastricht (Netherlands), ⁴Antwerp (Belgium)

**Discussant:** R. Schmid, Berne

14:30 284
Haemofiltration in ex-vivo lung perfusion: A study in experimentally-induced pulmonary oedema

T. Nilsson, C. Hansson, A. Wallinder, C. Malm, M. Silverborn, A. Laffin, S. Ricksten, G. Dellgren; Gothenburg (Sweden)

**Discussant:** P. B. Licht, Odense

14:45 285
Nanoliposomal-mediated siRNA targeting of Ea.hy926: A promising delivery method

A. Nemeth, A. Nolte-Karayel, M. G. Stoleriu, M. Mustafi, V. Steger, C. Schlensak, H. P. Wendel, T. Walker; Tübingen (Germany)

**Discussant:** H. J. Ankersmit, Vienna

15:00 286
Integrating biodegradable 3D-bioprinting technology into tracheal reconstruction

T. Goldstein¹, L. Smith², D. Grande¹, D. Zeltsman³; ¹Manhasset (USA), ²New Hyde Park (USA), ³Great Neck (USA)

**Discussant:** C. K. C. Choong, Melbourne

15:15 287
Antitumour efficacy of the double suicide genes in lung cancer cells

C. Shen, G. Che; Cheng Du (China)

**Discussant:** G. Cardillo, Rome

15:30 288
Effect of repeated administration of adipocyte-derived mesenchymal stem cells on a murine model of bronchiolitis obliterans

W. Lorenzi, F. Gonçalves, N. Schneider, E. Silva, A. H. Paz, M. Saueressig; Porto Alegre (Brazil)

**Discussant:**
14:15-15:45 Abstract Session

Controversies in thoracic surgery

Moderators: M. Dusmet, London; L. Spaggiari, Milan

14:15 289
Predictors of non-cancerous lesion in lung tumour showing ground glass opacity on thin-section computed tomography based on a multi-institutional prospective study
K. Suzuki¹, S. Watanabe¹, J. Mizusawa¹, Y. Moriya², I. Yoshino², M. Tsuboi³, H. Tada⁴, H. Asamura¹; ¹Tokyo (Japan), ²Chiba (Japan), ³Yokohama (Japan), ⁴Osaka (Japan)
Discussant: A. Sihoe, Hong Kong

14:30
Lobectomy vs sublobar resection for T1a lung cancer: Pro Lobectomy
M. Dusmet, London

14:45
Lobectomy vs sublobar resection for T1a lung cancer: Pro sublobar resection
A. Sihoe, Hong Kong

15:00 290
Long-term results of surgical treatment of non-small-cell lung cancer with N2 involvement: Institutional experience
C. Piwkowski, P. Gabryel, M. Kasprzyk; Poznan (Poland)
Discussant: P. Van Schil, Edegem (Antwerp)

15:15
Discussion - Stage IIIA-N2 is a surgical disease: Pro
R. Schmid, Berne

15:30
Discussion - Stage IIIA-N2 is a surgical disease: Con
S. Senan, Amsterdam

14:15-15:45 Focus Session

Pitfalls and trouble-shooting in minimally invasive surgery

See page 90 for programme details
Linking resection and reconstruction of intrathoracic organs

Moderators: M. Czerny, Zürich; D. J. Mathisen, Boston; E. Quintana, Rochester

Learning objectives:
The aim is to broaden knowledge about the feasibility and meaningfulness of extensive oncologic and infectious thoracic repair affecting the aorta, its branches as well as the oesophagus and the bronchial tree.

16:00
Extensive resection of non-vascular intrathoracic structures
W. Klepetko, Vienna

16:15 320
Surgical treatment of superior sulcus tumours: A fifteen-year single-centre experience
P. Solli, L. Spaggiari; Milan (Italy)
Discussant: S. Mussot, Le Plessis Robinson

16:30
Advanced techniques for T4 involvement
G. Friedel, Gerlingen

16:45 321
Safety and effectiveness of concomitant induction chemo-radiation followed by surgical resection for Pancoast tumour
G. Marulli, C. Breda, L. Battistella, A. Favaretto, A. Zuin, M. Schiavon, L. Loreggian, F. Rea; Padua (Italy)
Discussant: W. Klepetko, Vienna

17:00
Thoracic aortic repair warranting additional treatment of extraaortic structures
M. Czerny, Zürich

17:15 322
Prosthetic vascular graft infection complicated by mediastinitis: A multi-centre review
T. Oda¹, K. Minatoya¹, J. Kobayashi², Y. Okita³, H. Tanaka⁴, N. Kawaharada⁵, Y. Saiki⁶, Y. Kuniyoshi⁷; ¹Suita (Japan), ²Osaka (Japan), ³Kobe (Japan), ⁴Kurume (Japan), ⁵Sapporo (Japan), ⁶Sendai (Japan), ⁷Okinawa (Japan)
Discussant: E. Quintana, Rochester
09:00-18:10 Techno College

09:00-10:30 Advanced Techniques

Thoracic video session

*Moderators: H. Decaluwe, Leuven; R. Milton, Leeds; P. B. Rajesh, Birmingham*

09:00 331-I
Complete anterior chest wall resection and reconstruction for locally advanced breast cancer

H. Wee, F. Akbar, K. Rajapaksha, D. Aneez; Singapore (Singapore)

09:15 332-I
Novel approach for pulmonary endarterectomy facilitates access to the left lower lobe branches

C. Biancosino, I. Tudorache, M. Hoeper, F. Ius, P. Yablonskii, C. Fegbeutel, A. Haverich, S. Cebotari; Hannover (Germany)

09:30 333-I
Video-assisted thoracoscopy ligation of thoracic duct, posterior approach

M. Elsaegh, J. Dunning, J. Wallis; Middlesbrough (UK)

09:45 334-I
Video-assisted thoracoscopic surgery left lower lobe basilar segmentectomy for intrapulmonary sequestration

T. Lacin, Z. Bilgi, B. Yıldızeli, H. Batırel; Istanbul (Turkey)

10:00
VATS Tunnel technique: early division of the fissure with staplers in the fissureless patient.

H. Decaluwe, Leuven

09:00-12:00 Advanced Techniques

Thoracic sympathectomy & Vascular repair techniques (Wetlab)

*Moderators: E. Fadel, Le Plessis-Robinson; P. B. Licht, Odense*

**Learning objectives:**
The attendees will learn different surgical techniques of thoracic sympathectomy and vascular repairs. Practical demonstrations will be given and, at the end of the session, the participants will be able to perform such techniques

**Target Audience:**
This wetlab is restricted to 30 participants. Registration via the registration desks on site.

09:00-12:00 Advanced Techniques

How to do it: with live-in-a-box presentations

See page 101 for programme details
Raising Standards through Education and Training

Congenital Heart Disease Domain Programme
Chair

William Brawn - Birmingham, UK

William Brawn commenced his cardiothoracic surgical training in Southampton under the mentorship of Mr James Monro and Sir Keith Ross. After this training he went to New Zealand to complete a two year fellowship under the directorship of Sir Brian Barratt-Boyes at Green Lane Hospital from 1978-1980. Whilst training he was exposed to congenital heart surgery and in 1980 he moved to the Royal Children’s Hospital in Melbourne to work with Dr Roger Mee where he became a consultant in congenital heart surgery for 8 years. During this period he was part of a programme where world class results were being developed in the transposition of the great arteries, repair of complete atrioventricular septal defect and the development of surgery for complex pulmonary atresia with MAPCAs. Since 1988 he has been a consultant cardiothoracic surgeon at the Birmingham Children’s Hospital in the UK. His major interests have been in complex congenital work, the double switch procedures for congenitally corrected transposition and the development of a Norwood Hypoplast repair programme.

Congenital Heart Disease Academy Programme 2015

Advanced Module: Congenital Surgery 26-30 October

All courses to take place at EACTS House in Windsor, UK, unless stated otherwise.
Chair: William, J. Brawn, Birmingham
Emre Belli, Le Plessis-Robinson
Felix Berger, Berlin
Konrad Brockmeier, Cologne
Lucio Careddu, Bologna
Luca di Chiara, Padova
Ben Davies, London
Lorenzo Galletti, Bergamo
Mark G. Hazekamp, Leiden
Christian Pizarro, Wilmington

Ex officio: Paul E. Van Schil, Edegem (Antwerp)
A. Pieter Kappetein, Rotterdam

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<td>Pitfalls and troubleshooting in minimally invasive surgery</td>
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<td>Right Ventricle Outflow Tract reconstruction with handmade monocusp &amp; harvesting of the pulmonary valve for the Ross procedure</td>
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<td>09:00 - 12:00</td>
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Valve and conduits for the right ventricular outflow tract.
Reconstruction and repair of the pulmonary arteries

Session I: Conduits and valves
Moderators: F. Berger, Berlin; C. Schreiber, Munich; G. Stellin, Padua

13:00
Experience with the Contegra® valve
M. Hazekamp, Leiden

13:20
Experience with the Hancock® conduit
E. Belli, Le Plessis-Robinson

13:40
Experience with the Homograft valve
V. Tsang, London

14:00
Experience with the stented pulmonary valve
E. Hickey, Toronto

14:20
Creation of a pulmonary valve and valve conduit
S. Sano¹, M. Yamagishi²; ¹Okayama, ²Kyoto

14:50
Discussion

Session II: Pulmonary artery reconstruction beyond central pulmonary arteries
Moderators: F. Berger, Berlin; C. Schreiber, Munich; G. Stellin, Padua

15:30
Interventional cardiologist, the right ventricle outflow tract and pulmonary arteries
M. Carminati, Milan

15:50
The decellularised Homograft
A. Haverich, Hannover

16:10
Which tissue to use for repair of pulmonary arteries?
T. Karl, Brisbane

16:30
Grow your own valves from stem cells. What does the future hold?
S. Hoerstrup, Zürich

17:00
Discussion
Delivering value in healthcare: A vision for innovation
Moderators: D. Pagano, Birmingham; P.E. Van Schil, Edegem (Antwerp)

08:30
From paternalism to partnership
J. Rich, Norfolk

08:50
Getting more from less
B. Keogh, London

09:10
Leadership
D. Wood, Seattle

09:30
Innovation and industry: a new understanding
A. Lansky, New Haven

09:50
Panel discussion

13:00-15:00 Circulating Viewpoints
Paternalism to partnership: sharing the responsibility
Moderators: A.P. Kappetein, Rotterdam; J. Pepper, London

Learning objectives:
We raise a number of questions, and in the last 5 minutes, assess if we found any answers to the following questions:
- Can we take on high risk cardiothoracic operations within the rules of clinical governance?
- Do we understand the patient-doctor partnership?
- What is the duty of candour?
- Do patients and doctors understand risk?
- What are the ethics of self-disclosure?
- Who carries the ultimate responsibility: surgeon or the multidisciplinary team group?
- What does the patient understand by “success”? Survival alone may not constitute a “victory”.

13:00
Low mortality or failure to rescue
S. Westaby, Oxford

13:30
Success from the patient point of view
T. Goldsworthy, Tewkesbury

14:00
Doctor please explain the treatment
B. Leigh, London

14:30
F. Mohr, Leipzig
The Congenital Domain Postgraduate Education course is dedicated to the memory of Professor Luico Parenzan.

10:30-12:00 Session 1: Complex venous anomalies
Moderators: A. Carotti, Rome; M. Kostolny, London

Learning objectives:
To provide an update on management of venous anomalies. To understand the complex nature of re-operation, with in depth presentations on particular abnormalities. The films will illustrate complex repairs by world experts.

10:30
Morphology of cardiac venous anomalies
A. Cook, London

10:50
Surgical Repair of total anomalous pulmonary venous drainage
L. Galletti, Bergamo

11:10
Management of scimitar veins
V. Vida, Padua

11:30
Management of pulmonary vein stenosis
F. Lacour-Gayet, New York

11:50
Discussion

12:00-13:00 Break

13:00-14:30 Session 2: Re-operation techniques
Moderators: P. Del Nido, Boston; G. Stellin, Padua

13:00
Technical aspects of re-operation
D. Barron, Birmingham

13:20
Management of recurrent left ventricular outflow tract obstruction
V. Hraska, Sankt Augustin

13:40
Re-operation after the Norwood procedure
C. Pizarro, Wilmington

14:00
Re-operation after repair of transposition
P. Vouhe, Paris

14:20
Discussion

15:00-16:00 Session 3: Surgical film session
Moderators: C. Brizard, Melbourne; J. Comas, Madrid

15:00
Valve sparing - a method of repair
D. Mazzitelli, Munich
15:10
Arterial switch
E. Belli, Le Plessis-Robinson

15:20
Truncus arteriosus
M. Hazekamp, Leiden

15:30
Norwood I procedure
C. Pizarro, Wilmington

15:40
Left ventricular assist device implantation
M. Griselli, Newcastle Upon Tyne

15:50
The Fontan completion
T. Spray, Philadelphia

10:15-16:30  Postgraduate Education
Amber 5
Nurse, Nurse Practitioners and Physician Assistants Programme
See page 45 for programme details

10:30-16:30  Professional Development
Suite 4
Teach the Teacher
See page 46 for programme details
08:15 - 09:45 Session 1: A lifetime living with atrioventricular septal defect

Moderators: C. Brizard, Melbourne; A. Frigiola, Milan

Learning objectives:
To understand the complex nature of atrioventricular septal defect and learn methods of re-repair of the aortic valves

08:15
Morphology of atrioventricular septal defect
A. Cook, London

08:30
An overview of surgical repair of atrioventricular septal defect
T. Ebels, Groningen

08:45
Does outcome of staged repair for complex isolated complete atrioventricular septal defects differ from primary correction? A single-centre experience comprising 540 patients
T. Günther, J. Hörer, T. Fabry, C. Schreiber, R. Lange; Munich (Germany)
Discussant: P. Vouhe, Paris

09:00
Long-term outcome with pericardial patch augmentation for redo left atrioventricular valve repair in atrioventricular septal defect
K. Sughimoto¹, Y. D’Udekem², I. Konstantinov², C. Brizard²; ¹Chiba (Japan), ²Melbourne (Australia)
Discussant: J. Hörer, Munich

09:15
Biventricular repair for common atrioventricular canal defect with parachute mitral valve
P. Myers¹, P. Del Nido², V. Bautista-Hernandez², G. Marx², S. Emani², F. Pigula², C. Baird²; ¹Geneva (Switzerland), ²Boston (USA)
Discussant: D. Anderson, London

09:30
A single-centre 37-year experience with reoperation for atrioventricular septal defect
V. Sojak¹, D. Koolbergen², E. Bruggemans¹, A. Yazdanbakhsh², M. Kooij¹, M. Hazekamp¹; ¹Leiden (Netherlands), ²Amsterdam (Netherlands)
Discussant: O. Ghez, London

10:15-11:45 Session 2: A lifetime living with atrioventricular septal defect

Moderators: S. Cicek, Istanbul; M. Pozzi, Ancona

10:15
How can we help the surgeon
J. Marek, London

10:35
Australian technique for atrioventricular septal defect repair
T. Karl, Brisbane

10:55
What are the limits of biventricular repair
C. Pizarro, Wilmington

11:15
Re-operations: Tips and tricks
M. Redmond, Dublin
08:00-18:10 Techno College

08:15-09:45  Work in progress abstract session
Amber 6

Work in Progress
See page 53 for programme details

10:15-11:45  Focus Session
Amber 6

Pro and Cons debates
See page 59 for programme details

11:50-12:30  The Presidential Address
Gold Room

The versatile beauty of the hand:
mysterious, powerful and ingenious
P Van Schil, Edegem (Antwerp)

14:15-15:45  Abstract Rapid Response Session
Brown 3

Congenital rapid response
Moderators: D. Barron, Birmingham; M. Hazekamp, Leiden; F. Lacour-Gayet, London; G. Stellin, Padua

14:15    109-I
Durability of bicuspidalised homografts for the reconstruction of the right ventricular outflow tract
J. Cleuziou, K. Vitanova, J. Hoerer, B. Ruf, J. Kasnar-Samprec, R. Lange, C. Schreiber; Munich (Germany)

14:24    110-I
Pulmonary artery sling repair: Single-centre experience with analysis of risk factors
N. Muthialu, L. Bezuska, M. Nakao, M. J. Elliott, V. Tsang; London (UK)

14:33    111-I
Surgical outcomes following repair of anomalous origin of coronary artery from the pulmonary artery: Results from a national audit
D. Fudulu¹, D. Dorobantu¹, M. Sharabiani², G. Angelini¹, A. Parry¹, M. Caputo¹, S. Stoica¹; ¹Bristol (UK), ²London (UK)

14:42    112-I
Dacron conduit is not suitable for extracardiac Fontan operation
G. Oppido, R. Liberi, L. Careddu, C. D’Andrea, E. Angeli, V. Gesuete, E. Mariucci, G. Gargiulo; Bologna (Italy)

14:51    113-I
The efficacy of the “intrapulmonary-artery septation” surgical approach for Fontan candidates with unilateral pulmonary arterial hypoplasia
M. Tachi, M. Murata, Y. Ide, H. Ito, K. Kanno, K. Imai, K. Sakamoto; Shizuoka (Japan)

15:00    114-I
Closing the gap: First results of the new 15-ml EXCOR pump for children
M. Griselli¹, F. de Rita¹, S. Haynes¹, E. Sandica², A. Karimova³, N. Jurrmann⁴, K. Brandes-4, A. Menon⁴; ¹Newcastle Upon Tyne (UK), ²Bad Oeyenhausen (Germany), ³London (UK), ⁴Berlin (Germany)
15:09  115-I
Outcome of paediatric cardiac re-transplantation in the mechanical support era
F. de Rita¹, F. Gandolfo², R. Kirk¹, C. Irving¹, S. Haynes¹, D. Crossland¹, A. Hasan¹,
M. Griselli¹; ¹Newcastle Upon Tyne (UK), ²Rome (Italy)

15:18  116-I
Early rise in troponin-I predicts left ventricular dysfunction in simple transposition: A
study of 225 arterial switch operations
P. Bernier¹, D. Hayes², G. Krishnamurthy², J. Chen², J. Quaegebeur², E. Bacha²; ¹Montreal
(Canada), ²New York (USA)

15:27  117-I
Individual pulmonary veins outgrow somatic growth after the primary sutureless repair
for total anomalous pulmonary venous drainage
H. Jung, C. Park, J. Park, T. Yun; Seoul (Korea)

15:36  118-I
Surgical debranching of aortopulmonary collaterals in patients with single ventricle
physiology: Subclavian artery cleaning
H. Ito, M. Murata, Y. Ide, M. Tachi, K. Kanno, K. Imai, K. Sakamoto; Shizuoka (Japan)

14:15-15:45  Focus Session  Amber 8
Basic Science 1
See page 65 for programme details

14:15-15:45  Focus Session  Amber 6
Nightmares in cardiothoracic surgery
See page 66 for programme details

16:00-17:35  Focus Session  Amber 1&2
Predictive and non-invasive evaluation of congenital heart disease
Moderators: K. Brockmeier, Cologne; B. Maruszewski, Warsaw
Learning objectives: To understand modern advanced imaging modalities and how
they can be utilised to plan and execute surgical repair

16:00
Magnetic resonance imaging and new advances
A. Taylor, London

16:20
Present and future possibilities of ultrasound
B. Bijnens, Barcelona

16:40
Virtual prediction of surgery
A. Yoganathan, Atlanta

Monday 13 October 2014  137  Congenital Heart Disease
17:00
How to use new imaging modalities to plan and execute surgical procedures
P. Del Nido, Boston

17:20
Discussion

16:00-17:30  Focus Session

Basic Science 2

See page 71 for programme details
Valve Repair

Moderators: B. Asfour, Sankt Augustin; R. Greco, Madrid

Learning objectives:
To be aware of different methods of valve repair in different valves

08:15 192
Contemporary long-term outcomes of an aggressive approach to mitral valve repair in children: Is it effective and durable for both congenital and acquired mitral valve lesions?
P. S. Krishna Moorthy, S. Sivalingam, P. Kong, J. Dillon, M. A. Yakub; Kuala Lumpur (Malaysia)

Discussant: P. Del Nido, Boston

08:30 193
Atrioventricular valve regurgitation in univentricular hearts: Outcomes after repair
D. Laux, M. Vergnat, V. Lambert, B. Stos, M. Ly, R. Roussin, E. Bell; Le Plessis-Robinson (France)

Discussant: A. Bogers, Rotterdam

08:45 194
Da Silva’s cone repair for Ebstein’s anomaly: Effect on right ventricular size and function
R. Lange, M. Burri, L. Eschenbach, J. Hörer, S. Fratz, A. Kuehn, C. Schreiber, M. Vogt; Munich (Germany)

Discussant: J. P. Da Silva, Sao Paulo

09:00 195*
Aortic valve repair for insufficiency in older children offers unpredictable durability that may not be advantageous over primary Ross operation
T. Wilder, C. Caldarone, G. Van Arsdale, E. Pham-Hung, M. Gritti, M. Al Jughiman, E. Hickey; Toronto (Canada)

Discussant: B. Asfour, Sankt Augustin

09:15 196
Durability of tricuspid valve plasty in paediatric patients
Y. Nakamura¹, I. Hagino², S. Akiyama²; ¹Sagamihara (Japan), ²Chiba (Japan)

Discussant: Z. Prodan, Budapest

09:30 197*
Surgical treatment of infective endocarditis in paediatric patients: A 25-year review
E. S. Choi, W. Kim, S. Cho, J. R. Lee, Y. J. Kim; Seoul (Korea)

Discussant:
The Fontan-Total cavopulmonary connection circulation

Moderators: J. Fragata, Lisbon; A. Hosseinpour, Seville

Learning objectives:
To expand knowledge about the Fontan procedure and latest developments

08:15 103*
Mechanically assisted total cavopulmonary connection with an axial flow pump: In vivo and computational study
F. Gandolfo1, G. Brancaccio1, E. Iannace2, S. Filippelli1, M. Grigioni1, S. Donatiello1, D. D’Amario1, A. Amodeo1; 1Rome (Italy), 2Taormina (Italy)
Discussant: B. Meyns, Leuven

08:30 104
Results of extracardiac conduit total cavopulmonary connection in 500 patients
T. Nakano, H. Tatewaki, K. Hinokiyama, S. Oda, S. Shiraishi, S. Fujita, J. Ikarashi, H. Kado; Fukuoka (Japan)
Discussant: T. Spray, Philadelphia

08:45 105
Results of Fontan operation in patients with atrioventricular valve regurgitation
V. Podzolkov1, M. Chiaureli1, I. Yurlov1, M. Zelenikin1, D. Kovalev1, V. Dontsova1, S. Zaets2; 1Moscow (Russian Federation), 2Fort Lee (USA)
Discussant: L. Macé, Marseille

09:00 106*
Ten-year outcomes of Fontan conversion in Australia and New Zealand demonstrate the superiority of a strategy of early conversion
C. Poh1, A. Cochrane2, J. Galati3, A. Bullock4, D. Celermajer1, T. Gentles5, K. Finucane6, Y. D’Udekem3; 1Sydney (Australia), 2Clayton (Australia), 3Melbourne (Australia), 4Perth (Australia), 5Auckland (New Zealand)
Discussant: T. Ebels, Groningen

09:15 107*
Comprehensive rhythm evaluation in a large contemporary Fontan population
S. Bossers1, N. Duppen2, L. Kapusta3, M. Hazekamp4, A. Bogers2, G. van Iperen1, W. Helbing2, N. Blom3; 1Utrecht (Netherlands), 2Rotterdam (Netherlands), 3Nijmegen (Netherlands), 4Leiden (Netherlands)
Discussant: S. Foresti, Milan

09:30 108*
Initial management of pulmonary blood flow is associated with late outcomes in tricuspid atresia
T. Wilder1, E. Hickey1, B. McCrindle1, G. Ziemer2, E. Blackstone3, T. Karamlou4, P. Kirshbom5, P. Gruber6; 1Toronto (Canada), 2Chicago (USA), 3Cleveland (USA), 4San Francisco (USA), 5New Haven (USA), 6Iowa City (USA)
Discussant: L. Galletti, Bergamo
08:00-18:10 Techno College

08:15-09:45 Focus Session

Meet the experts
See page 77 for programme details

10:15-11:45 Focus Session

Amber 1&2

The problem of low birth weight and premature babies

_Moderators_: M. Carminati, Milan; T. Jones, Birmingham

**Learning objectives:**
To comprehend the multi organ problems of managing small babies with congenital heart disease

**10:15**
Whole body management

_L. Ragni, Bologna_

**10:35**
Should we/can we delay surgical interventions

_E. Hickey, Toronto_

**10:55**
Neurodevelopmental outcome of premature neonates

_B. Latal, Zürich_

**11:15**
Surgical challenges

_T. Spray, Philadelphia_

**11:35**
Discussion

10:15-11:45 Focus Session

Amber 6

Training in minimally invasive cardiothoracic surgery
See page 84 for programme details
11:50-11:55  Fontan Prize Presentation  Gold Room

11:55-12:00  Update on Multimedia Manual of Cardio-Thoracic Surgery  Gold Room
M. Turina, Zürich

11:55-12:00  The Honoured Guest Lecture  Gold Room
Genetics of aortic disease
B. Loeys, Edegem (Antwerp)

12:45-14:00  Residents’ Luncheon  Salon Paroramica
The Clash of the Titans returns!
See page 84 for programme details

14:45-15:45  Abstract Session  Amber 1&2
Mechanical support and transplantation
Moderators: M. Griselli, Newcastle Upon Tyne; M. Huebler, Zürich

Learning objectives:
To be aware of the possibilities and limitations of mechanical support and transplantation

14:15  277
Results of heart transplantation following failed staged palliation of hypoplastic left heart syndrome and related single ventricle anomalies
B. Alsoufi, S. Deshpande, B. Kogon, W. Mahle, K. Maher, K. Kanter; Atlanta (USA)
Discussant: G. Gargiulo, Bologna

14:30  278
Paediatric mechanical cardiac support with Berlin Heart Excor pulsatile ventricular assist device: Twenty-three-year single-centre experience
M. Musci, V. Alexi-Meskishvilli, O. Miera, M. Cho, F. Berger, R. Hetzer, J. Photiadis; Berlin (Germany)
Discussant: M. Griselli, Newcastle Upon Tyne

14:45  279*
Outcome of mechanical cardiac support in children using more than one modality as bridge to heart transplantation
F. de Rita, F. Gandolfo, S. Haynes, R. Kirk, L. Ferguson, J. Smith, A. Hasan, M. Griselli; 1Newcastle Upon Tyne (UK), 2Rome (Italy)
Discussant: B. Alsoufi, Atlanta

Congenital Heart Disease 142 Tuesday 14 October 2014
Long-term mechanical circulatory support in paediatric patients: The Bad Oeynhausen experience
E. Sandica, U. Blanz, L. Ben Mime, U. Schultz-Kaizler, G. Kirchner, E. Zu Knyphausen, V. Lauenroth, M. Morshuis; Bad Oeynhausen (Germany)
Discussant: M. Huebler, Zürich

Higher volume load in congenital heart surgery is associated with better early outcomes
A. Kansy1, B. Maruszewski1, Z. Tobota1, T. Ebels2, C. Schreiber2, J. Jacobs4; 1Warsaw (Poland), 2Groningen (Netherlands), 3Munich (Germany), 4Florida (USA)
Discussant: F. Lacour-Gayet, London

Outcomes and risk factors for heart transplantation in children with end-stage cardiomyopathy
B. Alsoufi, S. Deshpande, B. Kogon, K. Maher, W. Mahle, K. Kanter; Atlanta (USA)
Discussant: P. Vouhe, Paris

Focus Session

Pitfalls and trouble shooting in minimally invasive surgery
See page 90 for programme details

Abstract Session

Anatomic repair of complex transposition with en bloc rotation of the truncus arteriosus: Ten years’ experience
R. Mair, E. Sames-Dolzer, M. Innerhuber, E. Grohmann, A. Hofer, G. Tulzer; Linz (Austria)
Discussant: V. Hraska, Sankt Augustin

Fate of right ventricle to pulmonary atresia conduits following complete repair of pulmonary atresia with major aortopulmonary collaterals
R. Mainwaring, J. Schaffer, V. Reddy, F. Hanley; Stanford (USA)
Discussant: T. Jones, Birmingham

Biventricular repair for double outlet right ventricle with non-committed ventricular septal defect
S. Li, K. Ma, Z. Hua, K. Yang, J. Yan, K. Pang, S. Hu, X. Pan; Beijing (China)
Discussant: E. Belli, Le Plessis-Robinson
16:45 317
Surgical treatment of aberrant aortic origin of the coronary arteries
*M. Kooij, H. Vliegen, M. De Graaf, M. Hazekamp; Leiden (Netherlands)*
*Discussant: C. Schreiber, Munich*

17:00 318
Early and mid-term clinical experience with extracellular matrix graft for congenital cardiac and vascular reconstructive surgery: A multicentre Italian study
*M. Padalino¹, A. Quartì², E. Angeli³, A. Frigo¹, M. Pozzi², G. Gargiulo³, V. Vida¹, G. Stellin¹;¹Padua (Italy), ²Ancona (Italy), ³Bologna (Italy)*
*Discussant: T. Karl, Brisbane*

17:15 319
Surgical outcome of heterotaxy syndrome: A single-centre experience
*M. Chuang, C. Chang; Taipei (Taiwan)*
*Discussant: M. Kostolny, London*

09:00-12:00 Advanced Techniques

**Amber 6**

Right Ventricle Outflow Tract reconstruction with handmade monocusp & harvesting of the pulmonary valve for the Ross procedure

&M. Chuang, C. Chang; Taipei (Taiwan)*

**Moderators:** C. Pizarro, Wilmington; M. Hazekamp, Leiden; W. Brawn, Birmingham

**Learning objectives:**
To be acquainted with the technical aspects of harvesting the pulmonary valve and novel pulmonary valve manufacture
Harvesting the pulmonary valve for the Ross procedure
Making an on-table pulmonary valve

**Target Audience:**
Surgeons performing congenital heart surgery in patients from infancy through to adulthood.
This wetlab is restricted to 40 participants. Registration via the registration desks on site.

09:00-12:00 Advanced Techniques

**Brown 1**

How to do it: with Live-in-a-box presentations

See page 101 for programme details
Vascular Disease Domain Programme
Chair

Martin Czerny - Zürich, Switzerland

Martin Czerny is a cardiac and vascular surgeon and associate professor of surgery, eMBA. He undertook his surgical training in Vienna (Professor Wolner) and held the position of attending surgeon and Director of Clinical Research at the Inselspital Berne (Prof Carrel) until August 2013. Since September 2013 Martin has been working as a Consultant at the University Clinic of Cardiovascular Surgery in Zürich (Professor Falk).

Vascular Disease Academy Programme 2015

Advanced Module: Open and Endovascular Aortic Therapy 17-20 March

All courses to take place at EACTS House in Windsor, UK, unless stated otherwise.
# Vascular Disease Domain Programme

**Chair:**
- Martin Czerny, Zürich
- Joseph E. Bavaria, Philadelphia
- Michael A. Borger, New York
- Ruggero De Paulis, Rome
- Christian D. Etz, Leipzig
- Michael Grimm, Innsbruck
- Davide Pacini, Bologna
- Timothy Resch, Malmo
- Paul P. Urbanski, Bad Neustadt

**Ex officio:**
- Paul E. Van Schil, Edegem (Antwerp)
- A. Pieter Kappetein, Rotterdam

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<tr>
<td>08:30 - 10:00</td>
<td>Delivering value in healthcare: A vision for innovation</td>
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<td>13:00 - 15:00</td>
<td>Circulating viewpoints: Paternalism to partnership: sharing the responsibility</td>
<td>Brown 3</td>
<td>Circulating Viewpoints Session</td>
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<td>10:30 - 16:30</td>
<td>Vascular Disease Programme</td>
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<tr>
<td>10:30 - 16:30</td>
<td>Teach The Teacher</td>
<td>Suite 4</td>
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<td>10:30 - 16:30</td>
<td>Basic Science Programme</td>
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<tr>
<td>08:15 - 09:45</td>
<td>Part I: Aortic arch interventions: Debranching, rebranching, stenting and beyond</td>
<td>Brown 1</td>
<td>Professional Challenge Session</td>
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<td>08:15 - 09:45</td>
<td>Work in progress</td>
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<td>10:15 - 11:45</td>
<td>Part II: Cannulation issues in aortic surgery: Doing things right or doing the right things</td>
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<td>Pro and Cons debates</td>
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<tr>
<td>11:50 - 12:30</td>
<td>Presidential Address</td>
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<tr>
<td>14:15 - 15:45</td>
<td>Complicated type A aortic dissection: Malperfusion and outcome</td>
<td>Brown 1</td>
<td>Abstract Session</td>
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<tr>
<td>Time</td>
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<td>14:15 - 15:45</td>
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<td>14:15 - 15:45</td>
<td>Nightmares in cardiothoracic surgery</td>
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<td>16:00 - 17:30</td>
<td>Proximal thoracic aortic pathology: Variations on a theme</td>
<td>Brown</td>
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**Tuesday 14 October 2014**

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<td>Thoraco-abdominal aortic repair reloaded</td>
<td>Brown</td>
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<td>08:15 - 09:45</td>
<td>Meet the experts</td>
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<td>10:15 - 11:45</td>
<td>Thoracoabdominal aortic pathology- a functional approach in preserving spinal cord integrity</td>
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<td>10:15 - 11:45</td>
<td>Training in minimally invasive cardiothoracic surgery</td>
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<td>Honoured Guest Lecture</td>
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<td>12:45 - 14:15</td>
<td>The Clash of the Titans returns!</td>
<td>Salon Panoramica</td>
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<td>14:15 - 15:45</td>
<td>How today's challenges translate into tomorrow's outcome</td>
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<td>14:15 - 15:45</td>
<td>Aortic rapid fire session- fire and ice in aortic medicine</td>
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<td>Abstract Rapid Response Session</td>
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<tr>
<td>14:15 - 15:45</td>
<td>Pitfalls and trouble-shooting in minimally invasive surgery</td>
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<tr>
<td>16:00 - 17:30</td>
<td>Linking resection and reconstruction of intrathoracic organs</td>
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**Wednesday 15 October 2014**

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<td>09:00 - 12:00</td>
<td>Good times, bad times and how to live with both</td>
<td>Amber</td>
<td>Advanced Techniques</td>
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<tr>
<td>09:00 - 12:00</td>
<td>Thoracic sympathectomy &amp; Vascular repair techniques</td>
<td>Amber</td>
<td>Wetlab</td>
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<tr>
<td>09:00 - 12:00</td>
<td>How to do it live: with live-in-a-box presentations</td>
<td>Brown</td>
<td>Advanced Techniques</td>
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08:30-10:00   Plenary Session

Delivering value in healthcare: A vision for innovation

Moderators: D. Pagano, Birmingham; P.E. Van Schil, Edegem (Antwerp)

08:30
From paternalism to partnership
J. Rich, Norfolk

08:50
Getting more from less
B. Keogh, London

09:10
Leadership
D. Wood, Seattle

09:30
Innovation and industry: a new understanding
A. Lansky, New Haven

09:50
Panel discussion

13:00-15:00   Circulating Viewpoints

Paternalism to partnership: sharing the responsibility

Moderators: A. P. Kappetein, Rotterdam; J. Pepper, London

Learning objectives:
We raise a number of questions, and in the last 5 minutes, assess if we found any answers to the following questions

Can we take on high risk cardiothoracic operations within the rules of clinical governance?
Do we understand the patient-doctor partnership?
What is the duty of candour?
Do patients and doctors understand risk?
What are the ethics of self-disclosure?
Who carries the ultimate responsibility: surgeon or multidisciplinary team group?
What does the patient understand by “success”? Survival alone may not constitute a “victory”.

13:00
Low mortality or failure to rescue
S. Westaby, Oxford

13:30
Success from the patient point of view
T. Goldsworthy, Tewkesbury

14:00
Doctor please explain the treatment
B. Leigh, London

14:30
The risk of high risk surgery
F. Mohr, Leipzig
10:30-16:30 Postgraduate Education

10:30-12:00 Session 1: Different patterns of bicuspid aortic valve associated proximal aortopathy: RESECT or RESPECT?

Moderators: D. Cameron, Baltimore; T. Carrel, Berne; F. Kari, Freiburg

Learning objectives:
To understand the different patterns, clinical implications and surgical consequences nature confronts us with in bicuspsids and ascending disease

10:30
How to classify aortopathy and bicuspid aortic valves?
A. Della Corte, Naples

10:45
The genomic view on aortic valve disease
A. Gittenberger-de Groot, Leiden

11:00
A practical clinical guide for the extent of resection in bicuspid aortopathy
R. De Paulis, Rome

11:15
The arch issue in bicuspid aortopathy - RESECT or RESPECT?
T. Sundt, Boston

11:30
Confusion, consent and future developments - genomics, flow or still diameter?
C. D. Etz, Leipzig

11:45
Discussion & wrap up by chairmen

12:00-13:00 Break

13:00 - 14:30 Session 2: EACTS/STS Aortic Session 1:
Controversies in treating the distal aorta with and without previous proximal repair: Wire or knife

Moderators: C. A. Mestres, Abu Dhabi; E. Roselli, Cleveland; B. Rylski, Freiburg

Learning objectives:
Obtaining insights of the natural course in post dissection and non post dissection descending disease, understanding risk factors for dilation and learning to choose the adequate therapy at the adequate timepoint- and of course learn upon the differences and similarities in treatment algorithms between the US and Europe

13:00
The treatment of the chronically dissected arch and the descending aorta after previous type A repair- the European approach- indications, timing, strategy and pathophysiological implications
D. Pacini, Bologna

13:15
Aortic remodelling in aortic dissection after frozen elephant trunk
D. Dohle, K. Tsagakis, A. Janosi, J. Benedik, H. Kühl, L. Penkova, D. Wendt, H. Jakob; Essen (Germany)

Discussant: R. Di Bartolomeo, Bologna
13:30 002* Aortic arch surgery after previous type A dissection repair: Early to mid-term results
P. Bajona, E. Quintana, H. Schaff, R. Daly, J. Dearani, K. Greason, A. Pochettino; Rochester (USA)
Discussant: K. Tsagakis, Essen

13:45 The treatment of the chronically dissected arch and the descending aorta after previous type A repair - the US perspective
J. Bavaria, Philadelphia

14:00 003 Early and mid-term outcome of secondary interventions after thoracic endovascular aortic repair
M. Nozdrzykowski, J. Garbade, C. D. Etz, M. Luehr, A. Schmidt, M. Misfeld, M. Borger, F. Mohr; Leipzig (Germany)
Discussant: S. Folkmann, Vienna

14:15 Impact of surgical experience on outcome in surgery of acute type A aortic dissection
P. Urbanski, Bad Neustadt

14:45 - 16:30 Session 3: EACTS/STS aortic Session 2: How to treat type B aortic dissection: One question, many answers, which solution?
Moderators: J. E. Bavaria, Philadelphia; H. G. Jakob, Essen; F. Schoenhoff, Berne

Learning objectives:
Obtaining insights of the natural course in post dissection descending disease, understanding risk factors for dilation and learning to choose the adequate therapy at the adequate time point - and of course learn upon the differences and similarities in treatment algorithms between the US and Europe

14:45 The European approach
M. Grabenwöger, Vienna

15:00 004 Distal aortic reintervention after surgery for acute Type A aortic dissection: Open versus endovascular repair
B. Rylski¹, F. Beyersdorf¹, N. Desai², M. Siepe¹, F. Kari¹, P. Vallabhajosyula², R. Milewski², J. Bavaria²; ¹Freiburg (Germany), ²Philadelphia (USA)
Discussant: K. Kallenbach, Heidelberg

15:15 The perspective of the US
E. Roselli, Cleveland

15:30 005 Stentgraft first staged repair of type 2 thoraco-abdominal aneurysm: The endovascular elephant trunk
A. Vivacqua, J. Idrees, D. Johnston, E. Soltesz, L. Svensson, E. Roselli; Cleveland (USA)
Discussant: M. A. A. M. Schepens, Brugge

15:45 Is pathophysiology and treatment different in Japan?
Y. Okita, Kobe
Impact of entry site on late outcome in acute Stanford type B aortic dissection
Sagamihara (Japan)
Discussant: S. Trimarchi, San Donato

16:15
Discussion and wrap up by Chairmen

10:30-16:30  Postgraduate Education  Amber 6
Basic Science Programme
See page 43 for programme details

10:15-16:30  Postgraduate Education  Amber 5
Nurses, Nurse Practitioners and Physician Assistants Programme
See page 45 for programme details

10:00-16:30  Professional Development  Suite 4
Teach the Teacher
See page 46 for programme details
08:15-11:45  Professional Challenges

08:15-09:45 Session 1: Aortic arch interventions: Debranching, rebranching, stenting and beyond
Moderators: M. Grabenwöger, Vienna; M. Luehr, Leipzig; J. L. Pomar, Barcelona
Panel: R. Di Bartolomeo, Bologna; M. Grabenwöger, Vienna; R. H. Heijmen, Nieuwegein

08:15
The evolution of aortic arch surgery
T. Carrel, Berne

08:25 044*
Open aortic arch replacement in high risk patients: The gold standard
M. Iafrancesco, A. Ranasinghe, V. Dronavalli, D. Adam, M. Claridge, P. Riley, I. McCafferty, J. Mascaro; Birmingham (UK)
Discussant: T. Kuratani, Osaka

08:40 045-I
Dismantlement of a hybrid arch repair
E. Quintana, A. Pochettino; Rochester (USA)

08:50 046
Factors favouring retrograde aortic dissection after endovascular aortic arch repair
T. A. Gandet, Montpellier (France)
Discussant: K. Y. Park, Seoul

09:05 047-I
Total arch replacement from left thoracotomy
Y. Okita, S. Miyahara, M. Matsumori, T. Inoue, N. Morimoto, K. Okada; Kobe (Japan)

09:15
Debranching the aortic arch with and without cardiopulmonary bypass
H. Jakob, Essen

09:25
Frozen elephant trunk implantation- a position statement from EACTS
M. Shrestha, Hannover

09:40
Wrap up by chairmen

10:15 - 11:45  Session 2: Cannulation issues in aortic surgery: Doing things right or doing the right things
Moderators: R. De Paulis, Rome; W. Harringer, Braunschweig
Panel: R. Di Bartolomeo, Bologna; M. Grabenwöger, Vienna; R. H. Heijmen, Nieuwegein; M. Shrestha, Hannover

Learning objectives:
To have a straight and practical overview of any current arterial cannulation technique available for acute and chronic thoracic aortic pathology

10:15
Cannulation issues in aortic surgery- More confusion or more clarity?
J. Bachet, Nogent sur Marne
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<tr>
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<td>Subclavian artery cannulation with side graft</td>
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<td><em>S. Folkmann, Vienna</em></td>
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<tr>
<td>10:40</td>
<td>Subclavian artery cannulation without side graft</td>
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<td><em>D. Reser, Zürich</em></td>
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<td>10:45</td>
<td>Carotid artery cannulation</td>
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<td><em>A. Lenos, Bad Neustadt</em></td>
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<td>10:50</td>
<td>Brachiocephalic cannulation</td>
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<td><em>M. Di Eusanio, Bologna</em></td>
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<td>10:55</td>
<td>Direct ascending cannulation</td>
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<td><em>K. Tsagakis, Essen</em></td>
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<td>11:00</td>
<td>Femoral artery cannulation</td>
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<td><em>M. Luehr, Leipzig</em></td>
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<td>11:05</td>
<td>Discussion</td>
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<td>Innominata artery cannulation for proximal aortic surgery: Outcomes and</td>
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<td>neurologic events in 263 patients</td>
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<td>*O. Preventza, A. Garcia, A. Tuluca, M. Henry, F. Bakaeen, S. Omer, L.</td>
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<td>Cornwell, J. Coselli; Houston (USA )</td>
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<td>Discussant: <em>P. Bougioukakis, Bad Neustad</em></td>
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<td>Pro and Cons debates</td>
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<tr>
<td>11:50</td>
<td>The Presidential Address</td>
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<td>The versatile beauty of the hand: mysterious, powerful and ingenious</td>
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<td><em>P Van Schil, Edegem (Antwerp)</em></td>
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Abstract Session

14:15-15:45 Complicated type A aortic dissection: Malperfusion and outcome

Moderators: R. M. S. Almeida, Cascavel; L. Di Marco, Bologna

Learning objectives:
To learn upon the impact of malperfusion on outcome and to adopt, adapt and improve perfusion strategies in these situations.

14:15 Total arch replacement versus more conservative management in type A acute aortic dissection

M. Di Eusanio, P. Berretta, G. Folesani, M. Cefarelli, J. Alfonsi, G. Murana, S. Castrovinci, R. Di Bartolomeo; Bologna (Italy)

Discussant: C. Hagl, Munich

14:30 Extra-anatomic revascularisation for distal occlusion of the left or right common carotid artery in acute type A aortic dissection with cerebral malperfusion

M. Luehr, C. D. Etz, L. Lehmkuhl, M. Misfeld, F. Bakhtiyar, M. Borger, F. Mohr; Leipzig (Germany)

Discussant: G. Weiss, Vienna

14:45 Italian multi-centre study for type A acute aortic dissection: Thirty-three-year follow-up

C. Russo1, R. Lorusso2, G. Mariscalco3, A. Miceli4, P. Santé5, B. De Chiara1, I. Bonadell1, M. Glauber4; 1Milan (Italy), 2Brescia (Italy), 3Varese (Italy), 4Massa (Italy), 5Naples (Italy)

Discussant: U. Herold, Munich

15:00 Can antegrade and retrograde perfusion and early organ perfusion decrease mortality from acute type A aortic dissection associated with malperfusion?

K. Imoto, K. Uchida, N. Karube, S. Yasuda, S. Isoda, S. Suzuki, M. Masuda, M. Oba; Yokohama (Japan)

Discussant: H. Jakob, Essen

15:15 Pattern analysis of carotid malperfusion with acute type A aortic dissection and its impact on neurological outcome

T. Shimamoto, T. Komiya, H. Tsuneyoshi; Kurashiki (Japan)

Discussant: T. Sioris, Tampere

15:30 Should neurologic symptoms still preclude surgery in acute type A aortic dissection?

H. Most, B. Reinhard, B. Gahl, A. Weber, L. Englberger, A. Kadner, T. Carrel, C. Huber; Berne (Switzerland)

Discussant: E. Saadi, Porto Alegre

Focus Session

Basic Science 1

See page 65 for programme details

Nightmares in cardiothoracic surgery

See page 66 for programme details
Proximal thoracic aortic pathology: Variations on a theme

Moderators: C. D. Etz, Leipzig; J. Dumfarth, New Haven; H. Schäfers, Homburg/Saar

Learning objectives:
To learn upon different aspects of proximal thoracic aortic pathology from hemodynamic factors to connective tissue disease.

16:00 161
Predicting the aortopathy in patients with bicuspid aortic valve stenosis: Focus on the functional analysis of aortic root
E. Girdauskas¹, M. Rouman¹, K. Disha¹, G. Dubslaff¹, B. Fey¹, M. Borger², T. Kuntze¹;
¹Bad Berka (Germany), ²Leipzig (Germany)
Discussant: A. Della Corte, Naples

16:15 162*
Four-dimensional magnetic resonance imaging-derived ascending aortic flow eccentricity and flow compression are linked to aneurysm morphology
F. Kari¹, N. Kocher¹, F. Beyersdorf¹, A. Tscheuschler¹, B. Rylski¹, M. Siepe¹, M. Russe¹, M. Hope²; ¹Freiburg (Germany), ²San Francisco (USA)
Discussant: A. Juraszek, Warsaw

16:30 163*
Ascending thoracic aortic aneurysm wall stress analysis using patient-specific finite element modelling of in vivo magnetic resonance imaging
L. Ge, K. Krishnan, M. Hope, D. Saloner, J. Guccione, E. Tseng; San Francisco (USA)
Discussant: L. P. Weltert, Rome

16:45 164*
Decision-making in aortic root surgery in Marfan syndrome: Bleeding, thromboembolism and risk of reintervention after valve-sparing or mechanical aortic root replacement
F. Schoenhoff, B. Langhammer, D. Reineke, A. Kadner, T. Carrel; Berne (Switzerland)
Discussant: D. Cameron, Baltimore

17:00 165-I
Aortic surgery for Loeys-Dietz syndrome: When and how much is optimal? Two cases of multiple operations
S. Chung, K. Y. Park; Seoul (Korea)
Discussant: F. Schoenhoff, Berne

17:15 166*
Root replacement in acute type A dissection: Does valve sparing operation increase surgical risk?
Discussant: A. Moritz, Frankfurt
08:15-09:45  Focus Session  Brown 1

Thoraco-abdominal aortic repair reloaded

Moderators: R. Di Bartolomeo, Bologna; F. Mohr, Leipzig; G. Weiss, Vienna

Learning objectives:
The aim is to broaden knowledge upon the feasibility and meaningfulness of open thoracic and thoracocabdominal aortic repair.

08:15
Current practice in thoracoabdominal aortic surgery
R. Chiesa, Milan

08:35
Hypothermic circulatory arrest
J. Bavaria, Philadelphia

08:45
Partial extracorporeal circulation
J. Schmidli, Berne

08:55
Left heart bypass technique
M. A. A. M. Schepens, Brugge

09:05
Total endovascular thoracoabdominal aortic repair
T. Resch, Malmö

09:15
The EACTS position paper on neuroprotection
C. D. Etz, Leipzig

09:25
Contemporary approach of thoraco-abdominal aortic repair using moderate to deep hypothermia combined with target reconstruction of the Adamkiewicz artery
H. Tanaka, K. Minatoya, H. Sasaki, T. Oda, T. Itonaga, J. Kobayashi (Japan)
Invited Discussant: G. Melissano, Milan

08:00-09:45  Focus Session  Amber 6

Meet the experts
See page 77 for programme details

10:15-11:45  Abstract Session  Brown 1

Thoracoabdominal aortic pathology- a functional approach in preserving spinal cord integrity

Moderators: D. Pacini, Bologna; M. A. A. M. Schepens, Brugge

Learning objectives:
To learn upon different strategies to monitor function and preserve integrity of the spinal cord in an experimental and clinical scenario.
10:15  249
Shock wave treatment reduces neuronal degeneration upon spinal cord ischaemia after aortic cross clamp
J. Holfeld¹, C. Tepeköylü¹, D. Lohenwein¹, R. Kozaryn¹, E. Pechrigl¹, M. Bitsche¹, F. Helga¹, P. Paulus²; ¹Innsbruck (Austria), ²Frankfurt (Germany)
Discussant: J. Mascaro, Birmingham

10:30  250
Transoesophageal spinal cord stimulation for motor-evoked potential monitoring: Feasibility, safety and stability
K. Tsuda, N. Shiya, D. Takahashi, K. Ohkura, K. Yamashita, Y. Kando; Hamamatsu (Japan)
Discussant: V. Mosquera Rodríguez, A Coruña

10:45  251
The assessment of collateral communication after staged hybrid repair for Crawford extent II thoraco-abdominal aortic aneurysms
T. Shijo¹, T. Kuratani¹, Y. Shirakawa², K. Tórikai², T. Sakamoto², Y. Watanabe², Y. Sawa²; ¹Suita (Japan), ²Osaka (Japan)
Discussant: R. Almeida, Cascavel

11:00  252
Spinal cord injury after endovascular treatment for thoraco-abdominal aneurysm or dissection
M. Kato, Osaka (Japan)
Discussant: T. Resch, Malmö

11:15  253
Intraoperative motor evoked potential changes, procedure alterations and neurological outcome in thoracic and thoraco-abdominal aortic aneurysm repair
F. Jafarzadeh, A. Oo, M. Kuduvalli, D. Harrington, M. Bashir, M. Field, M. Desmond; Liverpool (UK)
Discussant: P. Tozzi, Lausanne

11:30  254
Evaluation of the downstream aorta after frozen elephant trunk repair for aortic dissections in terms of diameter and false lumen status
G. Weiss¹, D. Santer¹, S. Folkmann¹, J. Dumfarth², H. Pisarik¹, M. Harrer¹, F. Waldenberger¹, M. Grabenwöger¹; ¹Vienna (Austria), ²Innsbruck (Austria)
Discussant: P. Oberwalder, Graz

11:50-11:55  Focus Session  Amber 6
Training in minimally invasive cardiothoracic surgery
See page 84 for programme details

11:50-11:55  Fontan Prize Presentation  Gold Room

11:55-12:00  Update on Multimedia Manual of Cardio-Thoracic Surgery  Gold Room
M. Turina, Zürich
12:00-12:30 The Honoured Guest Lecture
Genetics of aortic disease
B. Loeys, Edegem (Antwerp)

12:45-14:00 Residents’ Luncheon
The Clash of the Titans returns!
See page 84 for programme detail

14:15-15:45 Abstract Session
How today’s challenges translate into tomorrow’s outcome
Moderators: G. Esposito, Bergamo; C. Hagl, Munich

14:15 291
Long-term follow-up assessment of surgical treatment of chronic thromboembolic pulmonary hypertension
A. Chernyavski, A. Edemski, M. Chernyavski, A. Tarkova, V. Efimenko, S. Ivanov; Novosibirsk (Russian Federation)
Discussant: A. M. D’Armini, Pavia

14:30 292
Peripheral or central cannulation in acute Type A dissection: Does it really matter?
S. Klotz, T. Hanke, M. Petersen, H. Sievers; Lübeck (Germany)
Discussant: B. Rylski, Freiburg

14:45 293
Early and late outcome after surgery for acute type A aortic dissection in the elderly
P. G. Malvindi, A. Modi, S. Miskolczi, S. Ohri, C. Barlow, S. Livesey, G. Tsang, T. Velissaris; Southampton (UK)
Discussant: G. Esposito, Bergamo

15:00 294
Long-term results after open aortic arch surgery for aneurysms and type A aortic dissections: Comparable outcomes beyond the perioperative period
A. Bernhardt, J. Brickwedel, J. Jahn, M. Coutandin, D. Biermann, H. Reichenspurner, C. Detter; Hamburg (Germany)
Discussant: M. Grabenwöger, Vienna

15:15 295
Twelve-year surgical experience with Type A aortic dissection: The impact of age on early and long-term outcomes
A. Colli1, M. Carrozzi1, M. Galuppo1, D. Gregori1, M. Cornisco1, F. Toto1, G. Gerosa2; 1Padua (Italy), 2Padova (Italy)
Discussant: T. Myrmel, Tromso

15:30 296
Gender-specific differences in outcome of ascending aortic surgery
C. Beller, P. Seppelt, M. Farag, S. Wannaku, M. Karck, K. Kallenbach; Heidelberg (Germany)
Discussant:
Tuesday 14 October 2014

08:00-18:10 Techno College

14:15-15:45 Abstract Rapid Response Session

Brown 3

Aortic rapid fire session- fire and ice in aortic medicine

Moderators: L. Botta, Milan; M. Misfeld, Leipzig; P. Tozzi, Lausanne; G. Wimmer-Greinecker, Bad Bevensen

Learning objectives:
To go on an exciting journey through contemporary issues from the aortic root to the bifurcation.

14:15  323-I
Percutaneous treatment of adult post-isthmic aortic coarctation: Acute and long-term outcomes with a self-expandable uncovered nitinol stent
S. Kische1, G. D’Ancona2, J. Ortak1, H. Ince1; 1Berlin (Germany), 1Palermo (Italy)

14:25  324-I
Virtual angioscopic evaluation of formation and progression of ulcer-like projection in patients with thrombosed-type acute aortic dissection
T. Miyamoto, K. Imoto, K. Uchida, N. Karube, S. Yasuda, Y. Matsuki, M. Masuda; Yokohama (Japan)

14:35  325-I
Elastic properties of the juvenile aorta: New insights from a novel porcine ex vivo perfusion model
T. Krüger, A. Grigoraviciute, K. Veseli, D. Schibilsky, H. P. Wendel, W. Schneider, C. Schlensak; Tübingen (Germany)

14:45  326-I
Impact of clinical factors and surgical techniques on early outcome of patients treated with frozen elephant trunk technique: Results of a multicentre study
S. Leontyev1, K. Tsagakis2, D. Di Bartolomeo3, D. Pacin1, F. Mohr1, M. Grabenwöger4, J. Mascaro5, H. Jakob2; 1Leipzig (Germany), 2Essen (Germany), 3Bologna (Italy), 4Vienna (Austria), 5Birmingham (UK)

14:55  327-I
Xenopericardial roll graft replacement to treat infectious pseudoaneurysm or graft infection of thoracic and thoraco-abdominal aorta
H. Kubota, H. Endo, M. Noma, H. Tsuchiya, Y. Takahashi, Y. Inaba, Y. Nishino, A. Tsuboi; Tokyo (Japan)

15:05  328-I
Mid-term outcomes of emergent total arch replacement for acute type A aortic dissection
S. Miyahara, T. Sakamoto, Y. Nomura, N. Morimoto, T. Inoue, M. Matsumori, K. Okada, Y. Okita; Kobe (Japan)

15:15  329-I
Impact of cystic medial necrosis on the early and late outcome of patients with aortic dissection
T. Fujiyoshi1, K. Minatoya1, Y. Ikeda1, H. Ishibashi-Ueda1, T. Morisaki1, H. Ogino2; 1Suita (Japan), 2Tokyo (Japan)

15:25  330-I
“Let it beat”: Continuous cardiac perfusion during complex aortic arch repair
A. Martens, N. Koigeldiyev, E. Beckmann, F. Fleissner, T. Kaufeld, H. Krueger, A. Haverich, M. Shrestha; Hannover (Germany)
Focus Session

16:00-17:30

Linking resection and reconstruction of intrathoracic organs

Moderators: M. Czerny, Zürich; D.J. Mathisen, Boston; E. Quintana, Rochester

Learning objectives:
The aim is to broaden knowledge about the feasibility and meaningfulness of extensive oncologic and infectious thoracic repair affecting the aorta, its branches as well as the esophagus and the bronchial tree.

16:00

Extensive resection of non-vascular intrathoracic structures

W. Klepetko, Vienna

16:15  320

Surgical treatment of superior sulcus tumours: A fifteen-year single-centre experience

P. Solli, L. Spaggiari; Milan (Italy)

Discussant: S. Mussot, Le Plessis Robinson

16:30

Advanced techniques for T4 involvement

G. Friedel, Gerlingen

16:45  321

Safety and effectiveness of concomitant induction chemo-radiation followed by surgical resection for Pancoast tumour

G. Marulli, C. Breda, L. Battistella, A. Favaretto, A. Zuin, M. Schiavon, L. Loreggian, F. Rea; Padua (Italy)

Discussant: W. Klepetko, Vienna

17:00

Thoracic aortic repair warranting additional treatment of extraaortic structures

M. Czerny, Zürich

17:15  322

Prosthetic vascular graft infection complicated by mediastinitis: A multi-centre review

T. Oda1, K. Minatoya1, J. Kobayashi2, Y. Okita3, H. Tanaka4, N. Kawaharada5, Y. Saiki5, Y. Kuniyoshi7; 1Suita (Japan), 2Osaka (Japan), 3Kobe (Japan), 4Kurume (Japan), 5Sapporo (Japan), 6Sendai (Japan), 7Okinawa (Japan)

Discussant: E. Quintana, Rochester
Good times, bad times and how to live with both

Moderators: R De Paulis Rome, M. Grabenwoger, Vienna,

Learning objectives:
A practical guide to master clinical challenges

09.00
M. Grimm, Innsbruck

09.20
C. Etz, Leipzig

09.40
J. Bavaria, Philadelphia

10.00
M. Grabenwöger, Vienna

10.20
Break

10.40
H. Jakob, Essen

11.00
D. Pacini, Bologna

11.20
R. DePaulis, Rome

Thoracic sympathectomy & Vascular repair techniques (wetlab)

Moderators: E. Fadel, Le Plessis-Robinson; P. B. Licht, Odense

Learning objectives:
The attendees will learn different surgical techniques of thoracic sympathectomy and vascular repairs. Practical demonstrations will be given and, at the end of the session, the participants will be able to perform such techniques

Target Audience:
This wetlab is restricted to 30 participants. Registration via the registration desks on site

How to do it: with live-in-a-box presentations

See page 101 for programme details
Exhibition,
Satellite Meetings

Raising Standards through Education and Training
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<td>The 2014 CardioCel Satellite Symposium at EACTS</td>
<td>12:45-14:00</td>
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<td>AtriCure Europe bv</td>
<td>Cross Fire Session – Challenging AF Surgery Treatment</td>
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<td>Edwards Lifesciences</td>
<td>Will all severe AS patients be treated in 5 years’ time?</td>
<td>12:45-14:00</td>
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<td>Latest updates and techniques in minimal invasive cardiac surgery</td>
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<td>Medistim ASA</td>
<td>Optimizing intraoperative decision making during CABG: Luck or Science?</td>
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<td>The wind of change – Pivotal questions and crucial answers for cardiac surgery</td>
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<td>Less is more: Controversies in the treatment of AS patients</td>
<td>12:45-14:00</td>
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<td>Reduced anticoagulation with the On-X heart valve</td>
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<td>The challenges of aortic surgery in the coming decade</td>
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<td>Cardiac Surgery in 2014. New guidelines and future perspectives</td>
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<td>Emerging clinical and economic evidence on the use of hemostatic agents. A panel discussion on clinical applicability of recent publications</td>
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<td>Controversies in aortic surgery – four cases</td>
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<td>Expanding interdisciplinary approach in the treatment of mitral valve patients</td>
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Founded in 1917 by the earliest pioneers in the field of thoracic surgery, the American Association for Thoracic Surgery (AATS) is now an international organization of over 1300 members consisting of the world’s foremost cardiothoracic surgeons representing 37 countries. The Annual Meeting, research grants and awards, educational symposia and courses, and the AATS official journal, the Journal of Thoracic and Cardiovascular Surgery all strengthen the commitment to its mission of Promoting Scholarship in Thoracic and Cardiovascular Surgery.

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Andocor is a company that designs and manufactures cardiovascular cannulae and catheters used during open-heart surgery. Beside our standard brand products, we also offer OEM services.

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AtriCure, Inc. is focused on innovative RF and cryothermia surgical ablation systems for the treatment of atrial fibrillation. AtriCure’s unique method of RF energy titration creates precise low-heat, low energy lesions on cardiac tissue. AtriCure also received CE Mark approval to market the AtriClip for LAA exclusion.

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Email: schubert@berlinheart.de Web: www.berlinheart.com

Berlin Heart is the only company worldwide that develops, produces, and distributes implantable and paracorporeal ventricular assist devices for patients of every age and body size. EXCOR® is a paracorporeal pulsatile VAD for uni- or biventricular support in newborns, children, adolescents, and adults. INCOR® is an implantable axial-flow LVAD for adults. The Berlin Heart EXCOR® Pediatric VAD is approved for use by the FDA under a Humanitarian Device Exemption. All other products are not FDA approved.
BioCer Entwicklungs-GmbH is a German implantable biological medical device development and manufacturing Company. HaemoCer™ PLUS Absorbable Polysaccharide Hemostat (APH) is a proprietary patent pending technology created via BioCers Polysaccharide Ultra-hydrophilic Resorbable Engineering PURE process. HaemoCer™ PLUS APH incorporates a sophisticated, plant-based polymer crosslinking that creates ultra-hydrophilic, biocompatible particles. Upon contact with blood HaemoCer™ PLUS enhances the natural clotting cascade by rapidly dehydrating the blood and accelerating the concentration of platelets, red blood cells and coagulation proteins at the bleeding site.

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Your innovative partner in the field of medical technology. This year the company CARDIOMEDICAL GmbH celebrates its 20th anniversary. The company markets advanced medical quality products for cardiac, thoracic and vascular surgery under its own label Cardio Vision®. It has been 8 years now that the company offers its high-tech surgical products for minimally invasive surgery and future technologies made in Germany.
At CareFusion, we are united in our vision to improve the safety and lower the cost of healthcare for generations to come. Our 14,000 worldwide employees are passionate about healthcare and helping those that deliver it - from the hospital pharmacy to the nursing floor, the operating room to the patient bedside. Our clinically proven product families include V. Mueller® and Snowden-Pencer® surgical instruments and ChloraPrep® skin antiseptic*. *Products referred to in this release may not be available in all countries. Contact your local CareFusion office to check the availability of the registration license and the prescribing information. Product SPC will be available at the booth.

CARMAT develops a bioprosthetic artificial heart that features bovine pericardial tissue for blood contacting surfaces and fully enclosed controls based on embedded sensors and electronics. The company was created in France in 2008 by Pr Alain Carpentier, Airbus Group and Truffle Capital.

COOK MEDICAL, is the industry pioneering leader in Lead Extraction devices designed for both the superior and femoral approaches. The ADVANCED PLATFORM devices for Lead Extraction include: the ONE-TIE™ Compression Coil, Evolution® RL and Evolution® Shortie RL Controlled-Rotation Dilator Sheath Sets, and the Evolution® SteadySheath™ Tissue Stabilization Sheath. Please come visit the stand.

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Covidien is a leading global healthcare products company that creates innovative medical solutions for better patient outcomes and delivers value through clinical leadership and excellence. Covidien manufactures, distributes and services a diverse range of industry-leading products in medical devices and supplies. With 2013 revenue of $10.2 billion, Covidien has 38,000 employees worldwide in more than 70 countries, with products sold in over 150 countries. Please visit www.covidien.com to learn more about our business.

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CTSNet (www.ctsnet.org), headquartered in Chicago, Illinois, USA, is the leading international source of online resources related to cardiothoracic surgery, as well as the major hub of the international online community of cardiothoracic surgeons and allied health care professionals.
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Berlin, 12587, Germany  
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CytoSorbents corporation is a critical care focused immunotherapy company using blood purification to modulate systemic inflammation – with the goal of preventing or treating multi-organ failure in life-threatening illnesses. Its purification technology is based biocompatible, highly porous polymer beds that can actively remove toxic substances from blood and other bodily fluids by pore capture and absorption.

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Founded in 1988 De Soutter Medical is a leading European manufacturer of surgical power tools. Our goal is to develop and produce advanced surgical cutting solutions for a rapidly changing global healthcare market. We strive to offer our customers a comprehensive range of quality products, which are both technically innovative whilst also representing optimal long-term value. De Soutter Medical will exhibit both our Primary and Revision sternudrive sternum saws at EACTS 2014.

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Famous French instruments manufacturer since 1920, DELACROIX-CHEVALIER is proud to offer indisputable best-seller instruments in tune with leading innovation stream of devices dedicated to MIS and video cardio-thoracic surgery developed in cooperation with key opinion leaders. Thanks to our specialized R&D organization and cutting edge manufacturing capabilities combined with dynamic market policies, Delacroix-Chevalier ranks now among world market leaders in the field.

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Email: mtwycross@e-dendrite.com Web: www.e-dendrite.com

Dendrite Clinical Systems is a specialist supplier of cardiac database systems for hospitals and national registries, with installations in over 40 countries around the globe. Dendrite has published the series of EACTS Adult Cardiac Surgical Database Reports and developed, and is currently hosting, the EUROMACS Registry for collecting data on mechanical circulatory support devices. Dendrites flexible software can create a database for any clinical scenario and to track any outcome. Please visit our booth for a software demonstration.

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EACTS-The European Association For Cardio-Thoracic Surgery  Booth No: 124
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Tel: +44 (175) 3832166 Fax: +44 (175) 3620407
Email: Elvira.Lewis@eacts.co.uk Web: www.eacts.org

EACTS is the largest European Association devoted to the practice of Cardio-thoracic surgery. The main objective of the Association is to advance education in the field of cardio-thoracic surgery and to promote, for the public benefit, research into cardiovascular and thoracic physiology and therapy and to correlate and disseminate the useful results thereof. Visit booth 124 for information on: membership, future meetings and all activities of EACTS. Journals: EJCTS (European Journal of Cardio-Thoracic Surgery) ICVTS (Interactive Cardiovascular and Thoracic Surgery) and MMCTS (Multimedia Manual of Cardiothoracic Surgery).

Edwards Lifesciences  Booth No: 101
Route de l’Etraz 70,
Nyon, 1260, Switzerland
Tel: +41 (22) 7874367 Fax: +41 (22) 7874347
Email: sheila_stephens@edwards.com Web: www.edwards.com

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. Additional company information can be found at edwards.com. Please visit our Edwards Lifesciences booth.

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Email: carlotassi@eurosets.it Web: www.eurosets.it

Eurosets S.r.l. Italy is a leader manufacturer of medical devices for Cardiac Surgery. Located in the middle of the Italian biomedical district (Medolla MO). Product lines are: cardiopulmonary, blood management, orthopaedic drainage, oem, chest drainage, surgical support, wound management. “Innovation and Technology for a better Patient outcomes” is our mission.

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KLS Martin Group is a well established, family owned company, ready to invest, based on a clear growth strategy. For more than 90 years the name KLS Martin stands for innovative products in surgery and medicine. “Sternal Talon and Sternal Plates” - innovative sternal closure systems designed for high-risk patients and reconstruction procedures. “Limax 120” - the innovative Laser System for metastatic resection. The diode-pumped Nd:YAG laser Limax 120 satisfies the highest demands for treatment quality and operating convenience in Thoracic and Endobronchial Surgery.

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Duesseldorf, 40211, Germany
Tel: +211 (360) 366 Fax: +211 (361) 31-64
Email: fnoguchi@gnzeu.de Web: www.gunze.co.jp/e/medical/

GUNZE is a Japanese manufacturer since 1896. We have PGA absorbable reinforcement mesh NEOVEIL. Absorbable bone fixation (sternum, rib pin) GRAND FIX, and more medical products of reconstruction. The office in Duesseldorf, Germany covers the European market.

Hamamatsu Photonics Deutschland GmbH
Arzbergerstr. 10,
Herrsching, D-82211, Germany
Tel: +49 (8152) 375-203 Fax: +49 (8152) 375-222
Email: emtomic@hamamatsu.de Web: www.hamamatsu.de

Hamamatsu Photonics is a world leader in the manufacture of opto-electronic devices, including many for the medical market. The new NIRO-200NX Monitor enables the monitoring of the cerebral or systemic oxygenation. As it provides not only the oxygenation data but also can detect the haemodynamic functions in the tissue it is a perfect tool for monitoring and improvement of the patient management during cardiac surgery. Our NIRO monitors are routinely used in many hospitals.

Heart and Health Foundation
Siraselviler cad. Hrisovergi Apt. No: 10/ 8, Beyoglu
Istanbul, 34300, Turkey
Tel: +90 (212) 2928808 Fax: +90 (212) 2928807
Email: tokatlioglu@interium.com.tr Web: www.escvs2015.org

64th congress of the European Society for Cardiovascular & Endovascular Surgery in conjunction with 11th congress of Update in Cardiology & Cardiovascular Surgery will be held on March 26-29, 2015 in Istanbul. It will be a unique platform, bringing cardiovascular & vascular surgeons together. Attractive scientific program enriched by interactive live transmissions & hands on AF ablation, AV repair, sutureless valve & TAVI courses will be glittering in 64th ESCVES.

Heart Hugger / General Cardiac Technology
6489 Camden Avenue #106,
San Jose, CA 95120, United States of America
Tel: +1 (831) 2393869 Fax: +1 (831) 5155239
Email: craig@hearthugger.com Web: www.hearthugger.com

After a sternotomy, pain is a fact of life, and there is no mystery about its cause - stress on a massive wound. Anything the patient can do to reduce that stress speeds recovery. That is why Heart Hugger-Sternum Support Harness should play a role in any post-sternotomy program. This simple patient-operated product remains loose and passive until activated by the patient. Circling the rib cage with uniform pressure, it gives patients full-time control over the pain that comes with every movement and every cough. Benefits include improved patient compliance, faster return to premorbid respiratory levels, fewer wound complications and better post-op mobility.
HeartWare Inc
205 Newbury Street,
Framingham, MA 01701, United States of America
Tel: +1 (508) 7390948 Fax: +1 (508) 7390950
Email: klee@heartwareinc.com Web: www.heartware.com

Treatment of advanced heart failure. Through a cadence of progressively smaller devices implanted using less invasive techniques, HeartWare expects to treat an increasing proportion of heart failure patients and to access them at an earlier stage of their disease progression. HeartWare's lead device, the HeartWare® Ventricular Assist System, incorporates state-of-the-art peripherals and features the only full-output pump designed to be implanted less invasively in the pericardial space. The HeartWare® System has CE-Mark approval and is currently the subject of a 150-patient US IDE clinical trial.

HMT Medizintechnik GmbH
Frauenstrasse 30,
Maisach, 82216, Germany
Tel: +49 (814) 1400351 Fax: +49 (814) 1400360
Email: edda.schieb@hmt-ffb.de Web: www.hmt-ffb.de

HMT Medizintechnik GmbH was founded in 1980. The qualifications and dedication of HMT employees in every area of production, from technical support team, to purchasing, sales and service, ensure the quality of all HMT products and services. The close collaboration of our distribution network throughout the European Union, in the Middle East and in Africa guarantees that wherever HMT products are being used, the same high HMT service standard is being provided. HMT has over 20 years experience in the production of tubing systems, comprehensive technical knowledge and unbeatable service. We produce tubing sets from an extensive range of components to the exact specifications of our clients.

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Merkelbeekenstraat 20,
Schinveld, 6451 CM, Netherlands
Tel: +31 (647) 835-824
Email: cjongen@imacorinc.com Web: www.imacorinc.com

EVO-Zura Platform with dedicated graphical user interface for advanced hemodynamic management and ClariTEE probe for episodic cardiac assessment. hTEE is the only technology in critical care that provides continuously available direct visualization by using trans esophageal echo. The miniaturized and single use ClariTEE probe enables episodic assessment and optimization of cardiac performance. Country of origin: USA

Integra
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Saint-Priest, 69800, France
Tel: +33 (437) 475900 Fax: +33 (437) 475699
Email: agnes.cretien@integralife.com Web: www.integralife.eu

Integra lifesciences is a leader in acute care surgical products. The company's portfolio German surgical quality instruments for sterile processing and/or needs in: general, cardiovascular, neuro, laparoscopic, plastic and reconstructive surgery. Products include Luxtec® illumination systems and cables, instruments from Jarit®, Ruggles Redmond™, Padgett®, Omni-Tract® table-mounted retractors and CIMS® Consulting Services. International Customer Service - Integra LifeSciences Services; csemea@integralife.com.
ISMICS—International Society for Minimally Invasive Cardiothoracic Surgery
Booth No: 16
500 Cummings Center, Suite 4550
Beverly, MA 01915, United States of America
Tel: +1 (978) 9278330 Fax: +1 (978) 5248890
Email: echouinard@prri.com Web: www.ismics.org
ISMICS: Innovation, technologies, and techniques in cardiothoracic and cardiovascular/vascular surgery. The 2015 ISMICS annual scientific meeting will be held 3-6 June 2015, Berlin, Germany.

Jena Valve Technology GmbH
Booth No: 116
Guerickestr. 25,
Munich, 80805, Germany
Tel: +49 (895) 52790828 Fax: +49 (895) 52790879
Email: daiker@jenavalve.de Web: www.jenavalve.de
JenaValve™ Technology is a medical device company focused on developing transcatheter valve implantation systems to treat patients suffering from aortic valve disease. The company has both transapical and transfemoral TAVI systems to address the needs of the cardiac surgeon and cardiologist, respectively. The company’s products are currently targeted at high-risk patients unsuitable for open heart surgery. JenaValve Technology’s headquarters are in Munich, Germany. Additional company information is available at www.jenavalve.com

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Pomezia, 00044, Italy
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ETHICON, is part of the Johnson & Johnson family of companies. Our Ethicon business offers a broad range of products, platforms and technologies—including sutures, surgical staplers, clip appliers, trocars, hemostats, synthetic mesh devices and energy devices—that are used in a variety of minimally invasive and open surgical procedures. Specialties include support for the treatment of cardiovascular and thoracic conditions, colorectal, women’s health conditions, hernias, cancer and obesity. Founded more than 80 years ago, our Ethicon business combines products and services with long histories of medical innovation.

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Booth No: 96 & 97
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Email: angela.kremer-wohlfahrt@jotec.com Web: www.jotec.com
JOTEC provides innovative solutions for vascular disease to Vascular and Cardiac Surgeons, interventional Radiologists and Cardiologists. According to the highest standards of innovation and quality JOTEC develops, manufactures and markets medical devices for peripheral and aortic vascular disease. The product portfolio comprises surgical grafts, stent and stent graft systems together with endovascular accessories but also customized solutions. Continuous product improvements and new developments aim to offer best possible solutions for both - patient and physician.
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Tuttlingen, 78532, Germany
Tel: +49 (746) 1708-0 Fax: +49 (746) 1708-105
Email: stefanie.birkenmayer@karlstorz.com Web: www.karlstorz.com

KARL STORZ is one of the world's leading suppliers of endoscopes for all fields of application. The family-owned company with its headquarters in Tuttlingen, Germany has 5800 employees worldwide. With a history that stretches back over 60 years, Karl Storz is well-known for its innovative and high-quality products. Its range of products has been rounded off with the development of the integrated operating room OR1™ and by integrating the field of flexible endoscopy into the various specialties.

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Beijing, 102200, China
Tel: +86 (108) 0120612 Fax: +86 (108) 0120615
Email: yomilepu@gmail.com Web: www.lepumedical.com

Lepu Medical Technology (Beijing) Co., Ltd is a high-tech enterprise specialized in research & development, production, sales and service of interventional medical devices. We possess over 10 categories of cardiovascular interventional, transcatheter, anesthetic, and IVD Products with CE Mark. The main products include Sirolimus-eluting coronary stent system, PTCA balloon dilatation catheters, occluders, prosthetic heart valves and etc. Partner®, one of famous sirolimus-eluting stents produced by Lepu, occupies about 30% market-share in China.

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MAQUET is a global leader in medical systems that advance surgical Interventions, cardiovascular procedures and critical care. MAQUET develops and designs innovative products and therapeutic applications for the operating room, hybrid OR/cath lab, intensive care unit and patient transport within acute care hospitals, improving outcomes and quality of life for patients. Cardiovascular specialties include intra-aortic balloon counterpulsation (IABC) therapy for cardiac assist; coronary artery bypass surgery; aortic and peripheral vascular surgery; and extracorporeal circulation.

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Horten, 3186, Norway
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Email: arne@mastersurgerysystems.no Web: www.mastersurgerysystems.no

Master Surgery Systems has comprehensive knowledge about flow measurements after more than 15 years accumulated experience. We are introducing a new fully digital transit time flow meter for graft patency verification. The software driven system is integrated in a 15” touch screen allowing the system to be mounted off the floor in the OR. We offer a wide range of flow probes for native and bypass vessels. In addition a wide range of clamp-on probes for flow measurements in tubes during LVAD or ECMO procedures. Visit the flow experts for an update.
The Medela family company, headquartered in the Canton of Zug, Switzerland, was founded by Olle Larsson in 1961. Medela concentrates on two divisions: “Breastfeeding”, leading in the development and production of breastfeeding products, and “Healthcare”, engineering and manufacturing highly innovative medical vacuum technology solutions. Medela conducts fundamental research together with leading scientists, medical professionals and universities, and uses the research results in the development of its products. Medela has 18 subsidiaries in Europe, North America and Asia, distributes its products in over 90 countries, and employs 1,500 staff worldwide.

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).

Medos is a leading German medical device company offering a full range of product solutions for cardiac surgery and peripheral applications. Medos focuses on the continuous development of innovative therapy solutions for cardiac surgeons and perfusionists. After two and a half decades Medos is well established as a provider of products for extracorporeal organ support and organ replacement. Manufacturing in Germany, Medos is present worldwide in order to ensure a personal contact to its customers.

At Medtronic, we are committed to Innovating for Life by pushing the boundaries of medical technology and actually changing the way the world treats chronic disease. Find Opportunity in change and consider our intuitive solutions in structural heart and aortic diseases including: tissue, mechanical and transcatheter valves; irrigated RF and cryosurgical ablation devices; aortic stent graft systems; and OPCAB, MICS CABG, cannulae and perfusion products. For more information on our company, please visit www.medtronic.com.
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Möller Medical is the world leading company in controlled CSF Drainage. The LiquoGuard product portfolio (www.LiquoGuard.com) offers various benefits as it provides a “cruise controlled” CSF management, incl. automated and controlled CSF drainage in a closed system, ICP measurement, documentation, detection of catheter occlusion, over drainage, slit ventricles, high and low pressure etc. Patients may be fully mobilized while they are pressure or volume controlled CSF drained and ICP monitored.

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Eden Prairie (MN), 55344, United States of America
Tel: +1 (952) 6987807 Fax: +1 (952) 4676077
Email: bclaseman@neochord.com Web: www.neochord.com

NeoChord, a Minneapolis, Minnesota medical device company, intends to transform mitral valve repair by providing minimally invasive technology that enables beating heart, sternal sparing implantation of artificial chordae tendineae.

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Peters Surgical, the world's 4th-largest surgical suture specialist, recently acquired Vitalitec, the European leader in haemostatic surgical clips, and Fimed, surgical glue manufacturer. Thus, Peters Surgical strengthens its position as a major French MD manufacturer, offering a wide range of products dedicated to the cardiovascular surgery: specialized sutures, annuloplasty system, clips, clamps, and glue. The richness and the diversities of the 3 companies, Peters Surgical, Vitalitec and Fimed, are now melted into a single structure, benefiting from a Century of mixed experiences in the surgical device development and manufacture.

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Crawley, West Sussex, RH11 8AD, United Kingdom
Tel: +44 (01) 293514649 Fax: +44 (01) 293514643
Email: idka.jantosovicova@posthorax.com Web: www.posthorax.com

POSTHORAX Limited, Crawley, United Kingdom
POSTHORAX Thorax Support Vest - External Sternum Support after Sternotomy (EU Patent 1940330)
POSTHORAX Ladies Bra - breast support after Sternotomy (in combination with Thorax Support Vest)
POSTHORAX ThoraxBelt - Compression Belt supporting Pain Management after Thoracotomy

Praesidia Srl
Via dei Lapidari, 19,
Bologna, 40129, Italy
Tel: +39 (348) 4441357 Fax: +39 (051) 323134
Email: malobbia@conecto-medical.com Web: www.conecto-medical.eu

Praesidia SRL manufactures and distributes Flexigrip Sternal Closure System, made of Nitinol thermoreactive clips. Through its affiliate companies Praesidia is presenting the DoveTail Divergent Sternal Retractor. Praesidia is active as well in surgical and intensive care markets.

Qualiteam s.r.l.
Casale Nassio Sopra 15/A,
Chiaverano (TO), 10010, Italy
Tel: +39 (012) 554691 Fax: +39 (012) 554794
Email: monica@qualiteam.com Web: www.qualiteam.com

Qualiteam is devoted to design and manufacture external incision support products that advance postoperative care for patients and give functional convenience for staff. Our goal is to improve a patient's hospital experience and accelerate recovery which leads to cost savings for healthcare providers. We focus on product efficiency and patient comfort. This means easy wound care for health care personnel while being safe and less painful for patients. Come visit our booth and see how our products can assist you to improve your patient's recovery.
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<th>Products/Services</th>
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<tbody>
<tr>
<td>Redax SRL</td>
<td>99 &amp; 100</td>
<td>Via G. Galilei, 18, Poggio Rusco (MN), 46025, Italy</td>
<td>Tel: +39 (335) 7113343 Fax: +39 (038) 651898 Email: <a href="mailto:silvio.sacco@redax.it">silvio.sacco@redax.it</a> Web: <a href="http://www.redax.it">www.redax.it</a></td>
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</tr>
<tr>
<td>RTI Surgical Inc</td>
<td>25</td>
<td>11621 Research Circle, Alachua, FL 32615, United States of America</td>
<td>Tel: +1 (386) 4188884580 Fax: +1 (386) 4621837 Email: <a href="mailto:rterbeek@rtix.com">rterbeek@rtix.com</a> Web: <a href="http://www.rtix.com">www.rtix.com</a></td>
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</tr>
<tr>
<td>Rumex International Co</td>
<td>83</td>
<td>13770 58th Street North, Suite 317, Clearwater, FL 33760, United States of America</td>
<td>Tel: +1 (727) 5680909 Fax: +1 (727) 5680919 Email: <a href="mailto:marina@rumex.net">marina@rumex.net</a> Web: <a href="http://www.rumex.net">www.rumex.net</a></td>
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</tr>
<tr>
<td>Scanlan International Inc</td>
<td>58 &amp; 59 &amp; 60</td>
<td>One Scanlan Plaza, Saint Paul, MN 55107, United States of America</td>
<td>Tel: +1 (651) 2980997 Fax: +1 (651) 2980018 Email: <a href="mailto:cobianJ@scanlangroup.com">cobianJ@scanlangroup.com</a> Web: <a href="http://www.scanlanINTERNATIONAL.com">www.scanlanINTERNATIONAL.com</a></td>
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</tr>
<tr>
<td>Sengewald Klinikprodukte GmbH</td>
<td>21</td>
<td>Adlerstr. 2 Rohrdorf/Thansau 83101, Germany</td>
<td>Email: <a href="mailto:IDurukan@stsmedicalgroup.com">IDurukan@stsmedicalgroup.com</a></td>
<td>Sengewald focuses on the protection for patients and staff, it the only manufacturer of drape systems, gowns and CPTs who develops and manufactures themselves in Germany. Since 1979 we have been connecting the needs of our customers with our knowledge on how to create innovative, high-grade products. With our fully automated manufacturing facilities we give new meaning to the quality seal of “made in Germany”: Over 23 million drapes and 4 million customer-specific packs speak for themselves - and for us.</td>
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Siemens AG, Healthcare Sector

Henkestrasse 127,
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Email: roland.kupfer@siemens.com Web: www.siemens.com/healthcare

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 information technology and hearing aids. Siemens offers its customers products and solutions for the entire range of patient care from a single source – from prevention and early detection to diagnosis, and on to treatment and aftercare. By optimizing clinical workflows for the most common diseases, Siemens also makes healthcare faster, better and more cost-effective. For further information please visit: www.siemens.com/healthcare

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Email: info@smartcanula.com Web: www.smartcanula.com

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Somahlution

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Email: barbara.turney@somahlution.com Web: www.somahlution.com

Somahlution is a global biotechnology company focused on advancing the science of organ and surgical transplantation. The company recently launched DuraGraft(R), the first in class Endothelial Damage Inhibitor (EDI) indicated for the preservation, storage and flushing of vascular conduits for grafting during vascular surgeries. DuraGraft replaces existing cytotoxic and clinically unproven hospital compounded mixtures for vascular conduit preservation, storage and handling. DuraGraft uniquely protects vascular endothelium and its associated architecture. To learn more, visit us at Booth #22, and be sure to register for the GoPro Surgical Challenge with DuraGraft.

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SORIN GROUP is a global medical device company and a leader in the treatment of cardiovascular diseases. With over 3,750 employees worldwide, the Company develops, manufactures and markets medical technologies for cardiac surgery and for the treatment of cardiac rhythm disorders. Each year, more than one million patients are treated with Sorin Group devices in more than 80 countries. Our life-saving products are in more than 5,000 hospitals worldwide.
Spectrum Medical Booth No: 122

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Email: acherlet@sjm.com Web: www.sjm.com

St. Jude Medical develops medical technology designed to put more control into the hands of those who treat cardiac, neurological and chronic pain patients worldwide. The company is dedicated to advancing the practice of medicine by reducing risk wherever possible and contributing to successful patient outcomes. Learn more at sjmprofessional.com.

Starch Medical Inc Booth No: 32

2150 Ringwood Ave,
San Jose, CA 95131, United States of America
Tel: +1 (408) 4289818 Fax: +1 (408) 3839189
Email: jennifer@starchmedical.com Web: www.starchmedical.com

Starch Medical Inc. (SMI) is a privately held San Jose, California based medical device company engaged in the design, manufacture and sale of absorbable hemostatic products. The mission of SMI is to provide innovative hemostatic technologies through the introduction of safe, cost effective and proprietary products to control bleeding-associated risks in surgeries and trauma. SMI has an independent distribution network selling SealFoam® Absorbable Polysaccharide Hemostat and RESPONDER® Hemostat in Europe and Asia. SealFoam® is a hydrophilic pad which may be trimmed to suit the surgical procedure. SealFoam® is indicated for a diverse range of surgical applications and unique wound contours.

stroke2prevent Booth No: 2

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Tel: +31 (38) 8534821 Fax: +31 (38) 8450180
Email: info@stroke2prevent.nl Web: www.stroke2prevent.com

Trans Esophageal Echocardiogram (TEE) is performed to assess the embolism risk level related to atherosclerosis in the thoracic aorta and carotids area. However aortic arch visualization is impaired by a blind spot caused by the air filled trachea. Ultrasound is not conducted to the aortic arch area. A-VIEW resolves this blind spot by placing a patented, saline-filled balloon catheter in the trachea. A-VIEW enhanced TEE; a valid method to support peri-operative decision making.
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Email: solange.guye@symetis.com Web: www.symetis.com

Symetis is a privately-owned Swiss company developing TAVI systems for transapical, transfemoral and transaortic delivery. Its proprietary technology, the ACURATE™ TAVI system, features a bioprosthesis with a unique self-seating, self-sealing design and stepped delivery ensuring a simple implantation procedure, short learning curve, and resultant optimal device placement with effective results. The ACURATE™ technology is available in 4 sizes (XS, S, M, L) to treat annuli of 19mm - 27mm. For more information, please visit www.symetis.com

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SynCardia Systems, Inc. (Tucson, AZ) is the privately-held manufacturer of the world's first and only FDA, Health Canada and CE (Europe) approved Total Artificial Heart. The company was formed in 2001 by world-renowned heart surgeon Jack G. Copeland, MD, interventional cardiologist Marvin J. Slepian, MD, and biomedical engineer Richard G. Smith, MSEE, CCE, to commercialize the SynCardia temporary Total Artificial Heart.

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Terumo Europe Cardiovascular Systems is an integral part of the Terumo's family of cardiovascular businesses and is committed to developing innovative technologies for the treatment of cardiovascular disease. In Europe, Terumo Cardiovascular Systems provides products and service such as VirtuoSaph Plus® Endoscopic Vein Harvesting System, Surgical Stabilization Products for Beating Heart and ON-pump Procedures, Capiox® Oxygenators, Customized Tubing Sets, Pall® filter brand products as well as Orpheus™ Perfusion Simulator.
Vascutek - A Terumo Company
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The Medicines Company's purpose is to save lives, alleviate suffering and contribute to the economics of healthcare by focusing on 3,000 leading acute/intensive care hospitals worldwide. Its vision is to be a leading provider of solutions in three areas: acute cardiovascular care, surgery and perioperative care, and serious infectious disease care. The company operates in the Americas, Europe and the Middle East, and Asia Pacific regions with global centers today in Parsippany, NJ, USA and Zürich, Switzerland. The Company was founded in 1996 and is publicly traded on the Nasdaq exchange under the ticker symbol MDCO.

The Heart Valve Society
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The Heart Valve Society is an organization formed to undertake, promote, support and encourage research and the education of the public in the causes, prevention, and treatment of heart valve disease, and related cardiac diseases, illnesses or conditions. The Society is comprised of individuals interested in and dedicated to improving heart valve disease in the global population, including cardiologists, cardiothoracic surgeons, researchers, allied health professionals, students, and institutional representatives. Members of the Society span the globe.

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Thoratec® is the world leader in MCS with the broadest product portfolio to treat the full range of clinical needs for patients suffering from advanced heart failure. The company’s products include the HeartMate® LVAS and Thoratec® VAD, with more than 20,000 devices implanted in patients suffering from heart failure. Thoratec also manufactures and markets the CentriMag® and PediMag®/PediVAS® product lines. Thoratec is headquartered in Pleasanton, CA. For more information visit www.thoratec.com.
**Tianjin Plastics Research Institute Co Ltd (TPRI)**

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Tianjin Plastics Research Institute Co., Ltd. established in 1965 and dedicates in cardioplegia disposable products. Our main products are extra-corporeal circuit products, arterial filter, blood reservoir, arterial & venous cannula, aortic root cannula and various components such as connectors, tubes, isolator, gas filter, clamps and so on.

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Founded in 1993 and located in Tianjin, China, designs, manufactures and sells heart lung machines & water heater cooler. All products have CE mark and are sold to more than 200 hospitals in China and many other countries in the world.

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