Minimally Invasive Techniques in Adult Cardiac Surgery

P Sardari Nia, Maastricht; V Falk, Berlin; T Walther, Frankfurt

26-28 June, 2018
Maastricht, The Netherlands

Raising Standards through Education and Training www.eacts.org
Course Format
3 day programme of interactive lectures, live-in-a-box videos and live surgical cases.

Course Overview
Focusing on the technical aspects of minimally invasive surgery, the course will provide an insight into the latest techniques and procedures. Each of the three days will be dedicated to a specific subject emphasizing the success of the teamwork approach. Surgeons, cardiologists, perfusionists and anaesthesiologists will demonstrate the latest technical aspects of these new procedures through live surgery transmissions (both 2 and 3D), keynote presentations and live-in-a-box video cases.

Learning Objectives
1. Current status on the following techniques:
   - Minimally invasive aortic valve replacement
   - Minimally invasive mitral valve surgery
   - Minimally invasive AF-ablation
   - Transcatheter aortic valve implantation
   - Transcatheter mitral valve procedures
   - Thoracic endovascular aortic procedures
   - Minimally invasive aortic surgery
   - Minimally invasive coronary revascularization
2. Tips and tricks, pitfalls on the above techniques
3. Live surgery and live-in-a-box videos of above procedures
4. Review of all the necessities for setting up the needed infrastructure for starting such a programme at participants’ own institute
5. Case presentation and discussion by participants
6. Exhibition of simulation-tools in simulation village for above procedures

Course Fees
Members: €450 inclusive of VAT
Non-Members: €550 inclusive of VAT
Trainees: €200 inclusive of VAT
Optional Group Dinner: €60 inclusive of VAT
(Course fee includes lunch and refreshments on all days and entry to the SimCity Exhibition)

SIMCITY
This year’s Course will feature a SimCity exhibition running throughout the 3 days of the programme and open to all participants.

For further information please contact the EACTS Secretariat info@eacts.co.uk
Course Programme

Tuesday 26 June (08:00-18:00)

Live Cases:
1. Minimally invasive aortic valve replacement through mini-sternotomy
2. Transfemoral transcatheter aortic valve implantation
3. Transapical transcatheter aortic valve implantation
4. Robotic minimally invasive direct coronary artery bypass (MIDCAB)

Part 1: What do I need to know before starting a MITACS programme?
Chairs: J Kempfert, Berlin; P Sardari Nia, Maastricht; T Walther, Frankfurt

Presentations:
- How to set up a successful MITACS programme
  P Sardari Nia, Maastricht
- Minimal-access, endoscopic and transcatheter access approach: How to acquire the skills
  J Kempfert, Berlin
- New tools for operative planning
  P Sardari Nia, Maastricht
- What do you need from your anesthesiologist?
  W Buhre, Maastricht
- What do you need from your perfusionist?
  Y Ganushchak, Maastricht

Discussion

Part 2: The aortic valve
Chairs: G Dahle, Oslo; T Modine, Lille; A van ‘t Hof, Maastricht

Presentations:
- Minimal access aortic valve repair through mini-sternotomy: Tips and tricks for exposure
  J Kempfert, Berlin
- Minimal access aortic valve repair through mini-thoracotomy: Technique and pitfalls
  M Glauber, Milan
- Sutureless valves: Current status and evidence
  R Lorusso, Maastricht
- Current evidence in transcatheter aortic valve implantation: Where do we stand?
  A van ‘t Hof, Maastricht
- Differential indication in transcatheter aortic valve implantation: Which patients, which valves and which pathologies?
  T Walther, Frankfurt
- Management of intra-operative pitfalls during transcatheter aortic valve implantation procedure
  H Treede, Halle
- Post-operative complications in transcatheter aortic valve implantation
  S Kats, Maastricht
- My nightmares in transcatheter aortic valve implantation procedures
  T Modine, Lille
- Future perspectives and developments in transcatheter aortic valve implantation
  G Dahle, Oslo
- Video demonstration of percutaneous oxyRVAD/VV ECMO support
  R Lorusso, Maastricht

Discussion

Meet the experts: aortic valves: 5 case presentations submitted by participants

Wednesday 27 June (08:00-18:00)

Live Cases:
1. Endoscopic mitral valve repair
2. Transcatheter edge-to-edge mitral valve repair
3. Percutaneous trans-coronary-venous mitral annuloplasty
4. Transapical-beating heart mitral valve repair

Part 3: Atrioventricular valves
Chairs: HP Brunner-La Rocca, Maastricht; J Kempfert, Berlin; F Maisano, Zurich

Presentations:
- A cardiologist’s perspective and expectation in referring patients with mitral valve regurgitation
  B Streukens, Maastricht
- Minimally (endoscopic) invasive mitral valve repair: Techniques and considerations
  L Mueller, Innsbruck
- Intra-aortic balloon versus external aortic clamp
  M Bentala, Breda
- Pitfalls in minimally invasive mitral valve surgery
  J Kempfert, Berlin
- Approach to redo, complex repair and double-valve operation in the minimally invasive approach
  P Suwalski, Warsaw
- Echocardiographic assessment of atrioventricular valves in the dedicated heart-team
  B Streukens, Maastricht
- Transapical-beating heart mitral valve repair
  To be announced
- Transcatheter edge-to-edge mitral valve repair: Current status and evidence
  J Vainer, Maastricht
Wednesday 27 June (08:00-18:00) continued

Transcatheter mitral and tricuspid therapies: Current status and perspectives  
Meet the experts: atrioventricular valves: 5 case presentations submitted by participants  
Discussion

Part 4: Minimally invasive coronary revascularisation  
Chairs: P Davierwala, Leipzig; L Mueller, Innsbruck; P Suwalski, Warsaw

Presentations:
- Hybrid revascularisation: Where do we stand?  
- Minimally invasive coronary revascularisation: Techniques and evidence  
- Robotic minimally invasive direct coronary artery bypass (MIDCAB)  
- Full arterial beating heart revascularisation through minimally invasive direct coronary artery bypass (MIDCAB)  
- Aortic no-touch off-pump coronary artery bypass (OPCAB) with endoscopic radial artery harvesting  

Discussion

Meet the experts: atrioventricular valves: 5 case presentations submitted by participants

Thursday 28 June (08:00-18:00)

Live Cases:
1. Mini-Bentall  
2. Hybrid atrial fibrillation ablation  
3. Endoscopic mitral and concomitant atrial fibrillation ablation

Part 5: Aorta  
Chairs: M Jacobs, Maastricht; P Risteski, Frankfurt

Presentations:
- Minimal access aortic surgery: Techniques and evidence  
- Endovascular approaches to complex aortic pathology  
- Complications during and after thoracic endovascular aortic repair procedure  
- Minimally invasive aortic arch surgery  
- Aortic valve repair through minimal access approach  
- What are the new gadgets in surgical treatment of aortic pathology?  
- Neuromonitoring in aortic surgery

Discussion

Part 6: Atrial fibrillation  
Chairs: F Casselman, Aalst; M Castella, Barcelona; B Maesen, Maastricht

Presentations:
- Current guidelines and evidence in the treatment of atrial fibrillation  
- Heart team approach for atrial fibrillation patients?  
- Evolution in surgical atrial fibrillation therapies  
- Update on percutaneous atrial fibrillation treatment  
- What to do with the left appendage  
- Totally endoscopic atrial fibrillation ablation  
- Pitfalls in the endoscopic approach  
- Hybrid approach to atrial fibrillation ablation  
- Concomitant atrial fibrillation ablation  
- Robotic atrial fibrillation ablation

Discussion

Subject to change.