EACTS Middle East Symposium in Minimally Invasive Techniques in Adult Cardiac Surgery

9-11 Sep 2015
Tehran Heart Centre, Tehran, Iran

Raising Standards through Education and Training

www.eacts.org
EACTS Middle East Symposium in Minimally Invasive Techniques in Adult Cardiac Surgery

Organisers:
European Association for Cardio-Thoracic Surgery (EACTS)
Surgical Training and Manpower Committee (STMP)
International Cooperation Committee

Programme Directors:
Pieter Kappetein, MD, PhD, Rotterdam, Netherlands
Jose Pomar, MD, PhD, Barcelona, Spain
Reza Rezaei MD, Tehran, Iran
Peyman Sardari Nia, MD, PhD, Maastricht, The Netherlands

Local Organising Committee:
Ali Bozorgi, MD, Tehran, Iran
Alireza Hajghasemi, MD, Tehran, Iran
Ali Mohammad Hajizeinali, MD, Tehran, Iran
Abbas Ali Karimi, MD, Tehran, Iran
Ebrahim Kassaiian, MD, Tehran, Iran
Hamid Reza Pourhosseini, MD, Tehran, Iran
Reza Rezaei MD, Tehran, Iran
Mojtaba Salarifar, MD, Tehran, Iran
Mahmoud Shirzad, MD, Tehran, Iran
Hossein Ahmadi Tafti, MD, Tehran, Iran
Mohammad Ali Yousefnia, MD, Tehran, Iran

Local Partners:
Tehran University of Medical Sciences (TUMC): www.tums.ac.ir
Tehran Heart Center (THC): www.ewthc.tums.ac.ir
Shahid Rajaie Cardiovascular and research center: www.rhc.ac.ir
Iranian Society of cardiac surgeons: www.iscs.org.ir
Iranian Society of Cardiac anesthesiologist: www.icaa.ir
Iranian Heart Association: www.iha.org.ir

Faculty:
Filip Casselman, MD, PhD, Aalst, Belgium
Piroze Davierwala, MD, Leipzig, Germany
Thomas De Kroon, MD, Nieuwegein, Netherlands
Yuri Ganushchak, MD, PhD, Maastricht, Netherlands
Houman Jalaie, MD, Aachen, Germany
Pieter Kappetein, MD, PhD, Rotterdam, Netherlands
Mark La Meir, MD, PhD, Maastricht, Netherlands
Bas Mochtar, MD, PhD, Maastricht, Netherlands

Dates and Venue:
9-11 September 2015,
Tehran Heart Centre,
Tehran, Iran

Focus and Audience:
Cardiothoracic surgeons
Vascular surgeons
Cardiologists
Cardiac anesthesiologist
Perfusionists
Residents and fellows;

Learning Goals:
1. Review and indications of the following techniques:
   a. Minimally invasive aortic valve replacement
   b. Minimally invasive mitral valve surgery
   c. Mini-Maze procedure en concomitant Maze procedures
   d. Transcatheter aortic and mitral valve therapies
   e. Thoracic endovascular aortic repair procedures isolated or in combination with open surgery
   f. Minimally extracorporeal circulation
   g. Minimally invasive coronary revascularization, off-pump coronary artery bypass surgery, minimally invasive direct coronary artery bypass and hybrid revascularisation
2. Review and comparison of the above techniques with the conventional techniques
3. Tips and tricks of above techniques with live surgery of each procedure
4. Review of all the necessities for setting up the needed infrastructure for starting such a programme at participants’ own institute
Course Programme

Day 1 - Wednesday 9 September 2015

08:00   Welcome

08:15   Future perspectives of cardiac surgery
        (Peyman Sardari Nia, Maastricht, Netherlands)

Part I: Access and Fundamentals

Moderators: Mohammad Ali Yousefnia, Tehran, Iran
            Hamid Reza Pourhosseini, Tehran, Iran
            Pieter Kappetein, Rotterdam, Netherlands

08:30   Surgical techniques and considerations of minimal access:
        ministenotomy/minithoracotomy/VATS (Rafael Sadaba,
        Pamplona, Spain)

08:40   Catheter-based access
        (Jindrah Vainer, Maastricht, Netherlands)

09:00   Considerations in perfusion technique in minimally invasive
        cardiac surgery (Yuri Ganushchak, Maastricht, Netherlands)

09:10   Anaesthesiological preparations and necessities in minimally invasive
        cardiac surgery (J Schreiber, Maastricht, Netherlands)

09:30   Pre-operative planning with 3D reconstruction, 3D printing and
        simulation (Peyman Sardari Nia, Maastricht, Netherlands)

09:50   Break

Part II: Mitral Valve Therapies

Moderators: Ahmad Ali Amirghofran, Shiraz, Iran
            Mahammad Sahebjam, Tehran, Iran
            Jose Pomar, Barcelona, Spain

10:10   Minimally invasive mitral valve surgery: indications and results
        (Jose Pomar, Barcelona, Spain)

10:30   Pre-operative transthoracic echocardiography, transesophageal
        echocardiography, 3D echo: cardiologist’s perspective
        (Jindrah Vainer, Maastricht, Netherlands)

10:50   Mitral valve repair techniques: respect or resect in light of port-
        access approach (P Davierwala, Leipzig, Germany)

11:10   Anaesthesiological preparations and considerations for port-
        access approach (J Schreiber, Maastricht, Netherlands)

11:20   Perfusionist’s considerations and preparations for port-access
        approach (Yuri Ganushchak Maastricht, Netherlands)

11:30   How to start the programme: from instrumental necessities
        to team work approach (Peyman Sardari Nia, Maastricht,
        Netherlands)

11:40   Surgical operations performed through port-access approach:
        video presentations (Thomas De Kroon, Nieuwegein,
        Netherlands)

12:00   MitraClip: indications and results (Jindrah Vainer, Maastricht,
        Netherlands)

12:20   Transcatheter Mitral repair systems: (Jindrah Vainer, Maastricht,
        Netherlands)

12:30   Lunch

13:30   Live-in-box surgery of mitral valve repair through port-access
        Maastricht’s experience (Peyman Sardari Nia, Maastricht,
        Netherlands)

13:40   Nieuwegein’s experience (Thomas De Kroon, Nieuwegein,
        Netherlands)

13:50   Leipzig’s experience (P Davierwala, Leipzig, Germany)

14:10   Aalst’s experience (Filip Casselman, Aalst, Belgium)

14:50   Live-in-a-box: MitraClip procedure (Jindrah Vainer, Maastricht,
        Netherlands)

15:10   Break

Part III: Coronary Revascularization

Moderators: Mohammad Hossein Mandegar, Tehran, Iran
            Hossein Ahmadi, Tehran, Iran
            Jindrah, Vainer, Maastricht, The Netherlands

15:30   Coronary revascularization: what is new with regard to
        revascularisation? (Pieter Kappetein, Rotterdam, Netherlands)

15:50   Total arterial revascularization: is still the golden standard?
        (Peyman Sardari Nia, Maastricht, Netherlands)

16:10   Minimally invasive extracorporeal circuit
        (Yuri Ganushchak, Maastricht, Netherlands)

16:30   Minimal access, off-pump revascularization: minimally invasive
        coronary artery bypass (Filip Casselman, Aalst, Belgium)

16:50   Hybrid revascularization (Jose Pomar, Barcelona, Spain)

17:10   Live-in-a-box: Robotic-assisted minimally invasive direct coronary
        artery bypass (Mark La Meir, Maastricht, Netherlands)

Raising Standards through Education and Training
Day 2 - Thursday 10 September 2015

Part IV: Transcatheter Aortic Valve Therapies

**Moderators:** Mohammad Ali Zeinali, Tehran, Iran
Kyomars Abbasi, Tehran, Iran
Thomas De Kroon, Nieuwegein, The Netherlands

08:00 Transcatheter aortic valve therapies (Pieter Kappetein, Rotterdam, Netherlands)

08:20 Different transcatheter aortic valve systems (Rafa Sadaba, Pamplona Spain)

08:40 Anaesthesiological preparation and consideration for transcatheter aortic valve therapies (J Schreiber, Maastricht, Netherlands)

08:50 Live in-box surgery: Transapical aortic valve insertion (Thomas De Kroon, Nieuwegein, The Netherlands)

09:50 Break

10:10 Indications, comparison and results of transapical and transfemoral approach (Filip Casselman, Aalst, Belgium)

10:30 Complications during and after transcatheter aortic valve therapies (Pieter Kappetein, Rotterdam, Netherlands)

10:50 Valve in Valve transcatheter therapies (Thomas De Kroon, Nieuwegein, The Netherlands)

11:10 Live-in-box surgery: Transfemoral aortic valve insertion (Pieter Kappetein, Rotterdam, Netherlands)

12:10 Lunch

Part V: Minimally Invasive Aortic Valve Surgery

**Moderators:** Alireza Ghavidel, Tehran, Iran
Mojtaba Salarifar, Tehran, Iran
Rafael Sadaba, Pamplona, Spain

13:10 Minimally invasive aortic valve replacement: review of the literature (Rafael Sadaba, Pamplona, Spain)

13:30 Pre-operative planning and imaging in minimally invasive aortic valve replacement (Peyman Sardari Nia, Maastricht, Netherlands)

13:50 Minimally invasive aortic valve replacement: techniques and indications (Filip Casselman, Aalst, Belgium)

14:15 Live-in-box surgery: Aortic valve replacement through ministernotomy (P Davierwala, Leipzig, Germany)

14:45 Sutureless valves and future perspectives (Rafa Sadaba, Spain)

15:15 Break

15:30 Minimal access approach for double valve, ascending aorta and reoperations (P Davierwala, Leipzig, Germany)

16:00 Live heart team of complex cardiac pathologies (All Faculty)

Day 3 - Friday 11 September 2015

Part VI: Atrial Fibrillation Therapies

**Moderators:** Saeed Hossein, Tehran, Iran
Ali Kazemisaeed, Tehran, Iran
Mark La Meir, Maastricht, The Netherlands

08:00 Fundamentals regarding atrial fibrillation and evolution of treatment modalities (Mark La Meir, Maastricht, Netherlands)

08:20 Surgical treatment of atrial fibrillation (Jose Pomar, Barcelona, Spain)

08:40 Usage of different energy sources (Filip Casselman, Aalst, Belgium)

09:00 Electrophysiology evaluation of atrial fibrillation surgery (Mark La Meir, Maastricht, Netherlands)

09:30 Break

10:00 Live-in-box: Hybrid atrial fibrillation (Mark La Meir, Maastricht, Netherlands)

10:45 Live-in-a-box: Left maze lesion sets in a concomitant cardiac surgery (Filip Casselman, Aalst, Belgium)

11:30 Live-in-a-box: Maze IV (Mark La Meir, Maastricht, Netherlands)

12:00 Lunch

Part VII: Thoracic Endovascular Aortic Repair

**Moderators:** Ebrahim Kassaiian, Tehran, Iran
Mehrab Marzban, Tehran, Iran
Bas Mochtar, Maastricht, The Netherlands

13:00 Endovascular treatment of thoracic aorta (Houman Jalaie, Aachen, Germany)

13:20 Hybrid approaches to extensive thoracic aortic pathology (Bas Mochtar, Maastricht, Netherlands)

13:40 Live in-box: Thoracic endovascular aortic repair procedure (Houman Jalaie, Aachen, Germany)

14:00 ECC during Complex TAAA procedures (Yuri Ganushchak, Maastricht, Netherlands)

14:20 Break

14:40 Neuromonitoring for thoracic endovascular aortic repair (B Mochtar, Maastricht)

15:00 Staged procedures in open and endovascular thoraco-abdominal aortic aneurysm to reduce the risk of paraplegia (Houman Jalaie, Aachen, Germany)

15:20 Live-in-a-box: complex procedures of thoracic aorta (P Davierwala, Leipzig, Germany)

16:00 Open or endovascular treatment of thoraco-abdominal aortic aneurysm in patients with connective tissue disease (Houman Jalaie, Aachen, Germany)