

4<sup>TH</sup> INTERNATIONAL CONGRESS

**AORTIC SURGERY AND ANESTHESIA  
“HOW TO DO IT”**

Milano, December 17<sup>th</sup> - 18<sup>th</sup>, 2010



**PRELIMINARY PROGRAMME**



[www.aorticsurgery.it](http://www.aorticsurgery.it)

**Friday, December 17<sup>th</sup>**

OPENING CEREMONY

## **1. Advanced Imaging**

1. 4-D Dynamic CT of the aorta before and after stent-graft placement
2. Aortic wall stress. Dynamic MRI and finite element analysis
3. Aortic CT angiography on a 256-slice multidetector CT scanner
4. Open source software OsiriX for aortic procedures planning and sizing
5. State of the art cardiac CT
6. EVAR without contrast is possible with adequate preoperative planning
7. Circulating Markers of Aortic Aneurysms

*Discussion*

## **2. The Proximal Aorta**

1. Surgical treatment of type A dissection
2. "Endo-Solutions" for the ascending aorta
3. Endovascular aortic repair, pushing the limit proximally
4. The "Frozen" Elephant Trunk Technique
5. Current status of cerebral oximetry in aortic surgery
6. Aortic Arch Debranching
7. Endovascular approach for proximal aortic dissections

*Discussion*

### **3. Marfan Syndrome**

1. Most recent advances in the knowledge of Marfan's syndrome
2. Valve-sparing and valve-replacing techniques for aortic root replacement in Marfan patients
3. Stent grafting of dissected descending aorta in Marfan patients
4. Anaesthetic management in patients with Marfan's syndrome and aortic dissection
5. Open thoracic and thoraco-abdominal aortic repair in Marfan patients
6. Acute type A dissection in Marfan patients
7. Technical advances in open surgery determines improved outcomes in Marfan patients

*Discussion*

#### **KEYNOTE LECTURE**

#### **Surgical Solutions for Arch and Thoraco-abdominal Aneurysms**

### **4. Aortic Valve**

1. Anaesthetic management of percutaneous aortic valve procedures
2. The balloon-expandable "Edwards - Sapien" trans-catheter aortic valve
3. The self expanding "Medtronic – CoreValve" trans-catheter aortic valve
4. Trans-apical trans-catheter aortic valve implantation
5. New trans-catheter aortic valves and approaches
6. "Valve-in-Valve" technique for aortic bio-prosthesis malfunction
7. Quality of life assessment after percutaneous aortic valve implantation

*Discussion*

## 5. Spinal Cord Ischemia

1. TEVAR in patients with previous or concomitant AAA surgery
2. Peri-operative preventive measures for Spinal Cord Ischemia
3. Spinal Cord Ischemia after open TAAA surgery
4. CT analysis of Spinal Cord vasculature
5. Low incidence of Spinal Cord Ischemia after open repair of Type IV TAAA
6. Can 3-D CT predict Spinal Cord Ischemia after TEVAR?
7. Postoperative treatment of Spinal Cord Ischemia

*Discussion*

## 6. Definition of "UNFIT" Patient

1. Value of preoperative clinic for aortic aneurysm patients:  
harmony in the operating room, enhance outcome and patient satisfaction
2. Parameters and guidelines that define the "Unfit" patient for laparotomy and thoracotomy with aortic cross-clamping
3. Parameters and guidelines that define the "Unfit" patient for sternotomy, cardio-pulmonary by-pass and circulatory arrest
4. Therapeutical optimization for the Unfit patient, role of Beta-blockers and Statins
5. The relevance of renal failure as a risk factor for aortic surgery
6. Trans esophageal echocardiography and the evaluation of cardiac risk
7. Age: risk factor or contra-indication

*Discussion*

**Saturday, December 18<sup>th</sup>**

## **7. When the Anaesthesiologist makes the difference**

1. New inotropic agents and survival: Levosimendan
2. Inotropic agents and mucosal perfusion
3. Epidemiology and outcome of perioperative myocardial infarction
4. Epidural and paravertebral analgesia
5. Should statins be used as a universal premedication?
6. Locoregional or General anesthesia for EVAR / TEVAR
7. Non-invasive intraoperative monitoring

*Discussion*

## **8. Aortic Emergencies**

1. EVAR for Ruptured AAA: current gold standard
2. TEVAR for aorto-esophageal, aorto-bronchial fistula
3. TEVAR for istmic rupture
4. Contemporary anaesthesiological management of profound hemorrhagic shock after aortic rupture
5. Acute Aortic Syndrome, experience of the "Vienna Aneurysm Program"
6. Emergency percutaneous treatment of complications of Type B dissection
7. Acute Type A dissection

*Discussion*

## 9. Laparoscopy & Miscellaneous Topics

1. Laparoscopic approach to AAA
2. Laparoscopic treatment of arquate ligament syndrome
3. Visceral malperfusion and aortic dissection: role of laparoscopy
4. Caval Leiomyosarcomas
5. Primary malignant tumours of the aorta
6. EVAR for Inflammatory AAA
7. Visceral artery aneurysm > 200 cases experience

*Discussion*

### KEYNOTE LECTURE

Endovascular Solutions for Arch and Thoraco-abdominal Aneurysms

## 10. Complications

1. Aorto-enteric fistulae after AAA open surgery
2. Complications and solutions during complex endovascular thoraco-abdominal procedures
3. Vascular graft infections
4. Anaesthesiological management of severe intraoperative bleeding complications
5. Colonic ischemia after open surgery and EVAR
6. Late conversion to open repair with stent-graft removal
7. Retrograde dissection after TEVAR
8. Increased mortality in centers with low case load, should there be more regionalization?

*Discussion*

## **11. Coverage of important branches: when and how to revascularize?**

1. Hypogastric artery branched stent-grafts
2. Double bifurcation grafts: developments for EVAR with iliac aneurysm
3. Double barrel technique for the Hypogastric artery
4. Fenestrations or branches for splanchnic revascularization?
5. Thoracic stent-grafts with distal scallops
6. Routine chimney technique for left subclavian preservation
7. In situ fenestration using electro-magnetic navigation
8. Hybrid technique for splanchnic revascularization

*Discussion*

## **12. Endoleaks**

1. Optimal techniques for surveillance after EVAR, role of Ultrasonography
2. Type II Endoleak treat or observe?
3. Can “Endo-Staples” prevent Type I Endoleaks and late migrations?
4. Concepts in management of thoracic aortic pathology
5. Stent-graft and debranching for TAA aneurysm
6. Proximal aortic wrapping to prevent endoleak after “Zone 0” hybrid arch repair
7. Management of distal tears with thoracic aortic dissections
8. Tissue glue / ONIX and coil embolization in the treatment of Type II endoleaks

*Discussion*

CLOSING CEREMONY