LEARNING OBJECTIVE
How innovation can improve patient outcome in the fields of AVR, MVR and Perfusion management.

FACULTY
Chairmen: B. Gersak, M.D., Ph.D., Prof. - Ljubljana, Slovenia
J. Dillon, M.D. - Kuala Lumpur, Malaysia
M. Laskar, Prof., M.D. - Limoges, France

Speakers: M. Ranucci, M.D. - Milan, Italy
B. Meuris M.D., Ph.D. - Leuven, Belgium
S. F. Bolling, M.D. - Ann Arbor, MI-USA
V. Bapat, M.D. - London, UK

PROGRAM
• The impact of perfusion on outcomes in cardiac surgery
  M. Ranucci

• Advanced treatment in AVR: which are the key benefits of sutureless technology vs stented valves?
  B. Meuris

• Is there space for innovation in MV repair?
  S. F. Bolling

• “Valve in Valve” Interventions: which is the appropriate patient to select and how to tailor the treatment?
  V. Bapat
THE CHAIRMEN

Borut Gersak, Prof., M.D., Ph.D.
Ljubljana - Slovenia

Prof Borut Gersak has been head of the Cardiovascular Surgery Department at the University Medical Center Ljubljana since 2006. His interests are port access mitral valve surgery, minimally invasive aortic valve surgery, hybrid totally endoscopic atrial fibrillation ablation and computer simulations in surgery.

Jeffrey Dillon, M.D.
Kuala Lumpur - Malaysia

Jeffrey Dillon has been a Consultant since 2000. He trained at the Mayo clinic, USA, in Edinburgh, UK and at the National University of Malaysia, Kuala Lumpur. His interests are valve repair and replacement, MICS, sutureless valves and surgery for AF.

Marc Laskar, Prof., M.D.
Limoges - France

Dr Laskar has been head of the department of thoracic and cardiovascular surgery in Limoges since 1990. After the residency in Limoges he trained at the Pitié-Salpetrière in Paris with Prof Cabrol’s team and then come back to Limoges. Dr Laskar is the current President of the French Society of Thoracic & Cardiovascular Surgery.
PRESENTATION

**THE IMPACT OF PERFUSION ON OUTCOMES IN CARDIAC SURGERY**

Marco Ranucci, M.D.
Milan - Italy

Marco Ranucci has been the Head of the Department of Cardiothoracic Anesthesia of the IRCCS Policlinico S. Donato since 1996. His interests are Cardiopulmonary Bypass Technologies, with a particular focus on reducing the impact of CPB and the need for transfusions, Coagulation and Transesophageal Echocardiography.

**PRESENTATION HIGHLIGHTS**

- Impact of perfusion on patient outcome
- Importance of hemodilution during cardiac surgery
- Pathophysiology of extracorporeal circulation
- Acute Kidney Injury (AKI)
- Goal-Directed Perfusion

**NOTES**

To learn more:

**Oxygen Delivery During Cardiopulmonary Bypass and Acute Renal Failure After Coronary Operations**
M. Ranucci, MD, F. Romitti, MD, G. Isgro, MD, M. Cotza, CCP, S. Brozzi, CCP, A. Boncilli, CCP, and A. Ditta, CCP
Departments of Cardiothoracic Anesthesia and Intensive Care and Cardiovascular Perfusion, Policlinico San Donato, Milan, Italy

**Transfusions during cardiopulmonary bypass:**
better when triggered by venous oxygen saturation and oxygen extraction rate.
M. Ranucci, S. Castelvecchio, A. Ditta, S. Brozzi, A. Boncilli, E. Baryshnikova, for the Surgical and Clinical Outcome Research (SCORE) group

**Anaerobic Metabolism During Cardiopulmonary Bypass: Predictive Value of Carbon Dioxide Derived Parameters.**
M. Ranucci, MD, G. Isgro, MD, F. Romitti, MD, S. Mele, MD, B. Biagioli, MD, PhD, and P. Giomarelli, MD, PhD Department of Cardiothoracic Anesthesia, Policlinico San Donato, Milan, and the Thoracic and Cardiovascular Unit, Department of Surgery and Bioengineering, University of Siena, Siena, Italy

**O$_2$ delivery and C$_{O2}$ production during cardiopulmonary bypass as determinants of acute kidney injury:**
time for a goal-directed perfusion management?
F. De Somer, J. W. Mulholland, M. R. Bryan, T. Aloisio, G. J. V. Nooten and M. Ranucci
Department of Cardiothoracic-Vascular Anesthesia and Intensive Care, IRCCS Policlinico San Donato, Milan Italy
PRESENTATION

· ADVANCED TREATMENT IN AVR: WHICH ARE THE KEY BENEFITS OF SUTURELESS TECHNOLOGY VS STENTED VALVES?

Bart Meuris, Prof., M.D.
Leuven - Belgium

Bart Meuris is a Cardiac Surgeon and Associate Professor from the University Hospitals of Leuven (Belgium). His interests are valve surgery, off-pump CABG and aortic surgery. Clinical and experimental activities have led to more than 100 lectures and over 65 publications.

PRESENTATION HIGHLIGHTS

• Perceval results compared stented valves: an overview on clinical experience
• Stent properties impact on valve durability
• Valve design conceived for less traumatic procedure

NOTES

To learn more:

Minimally invasive aortic valve replacement with Perceval S sutureless valve: Early outcomes and one-year survival from two European centers.
Miceli A. et al. - The Journal of Thoracic and Cardiovascular Surgery - Article in press

Sutureless aortic valve replacement: a systematic review and meta-analysis
Phan et al. - Annals of cardiothoracic surgery, Apr 27, 2014 doi: 10.3978/j.issn.2225-319X.2014.06.01

Better Short-Term Outcome by Using Sutureless Valves: A Propensity-Matched Score Analysis.

Minimally Invasive Aortic Valve Replacement with Self-Anchoring Perceval Valve.

The Perceval S Aortic Valve Has the Potential of Shortening Surgical Time: Does It Also Result in Improved Outcome
PRESENTATION

· IS THERE SPACE FOR INNOVATION IN MV REPAIR?

Steven Fredric Bolling, Prof., M.D.
Ann Arbor, MI-USA

Steven F. Bolling is currently Professor of Cardiac Surgery at the University of Michigan (Ann Arbor) and continues to run an NIH-funded basic science laboratory. His expertise in mitral valve repair continues to result in a large volume of referrals for mitral valve reconstruction. His innovative approach to mitral valve repair in patients with end-stage left ventricular failure and outstanding ability to repair even the most challenging mitral valve abnormalities have received wide spread international acclaim.

PRESENTATION HIGHLIGHTS

· MV repair and the new 2014 Guidelines
· My view of innovation in Mitral Valve Repair
· A complex technique made easy: simplifying artificial chord replacement to deliver better patient outcomes

NOTES

To learn more:

Is Physiologic Annular Dynamics Preserved After Mitra/ Valve Repair With Rigid or Semirigid Ring?
M. Ryomoto, M. Mitsuno, M. Yamamura, H. Tanaka, S. Fukui, N. Tsujiya, T. Kajiyama and Y

First-in-man implantation of a Sorin Memo 3D ring: Mitra/ annular flexibility is still preserved at S years of follow-up!

Early clinical experience and echocardiographic results with a new semirigid mitral annuloplasty ring: the Sorin Memo 3D.
Annals of Thoracic Surgery 2009;88:1492-8

Sovering annulop/asty rings: Experimental pathology in the sheep model.
M. Della Barbera, F. Laborde, G. Thiene, V. Arata, E. Pettenazzo, E. Pasquino, Behr, M. Valente.
Cardiovascular Pathology 14 (2005) 96-103
PRESENTER

Vinayak Nilkanth Bapat, M.D.
London, UK

Vinayak Bapat has been a Consultant at St Thomas’ hospital since 2007. After qualifying in Mumbai, he did his fellowship in Toronto before coming to the UK to finish his training. His area of interest are adult cardiac surgery, aortic surgery, TAVI, MIS-AVR, total arterial revascularisation, mitral repairs, education & teaching, and finally surgery for atrial fibrillation. He has participated to the redaction of over 50 publications and has recently developed a smartphone App to allow users to access information on valve-in-valve, one of his area of expertise.

PRESENTATION HIGHLIGHTS

• Valve in Valve? What are the key criteria to select the right patient: life expectancy, annulus size limitations, and good visualization of the sewing cuff
• Dealing with different devices: tip and tricks to be aware in the “Valve in Valve” and “Valve in Ring” procedures
• A look to the future: new devices for enhanced visibility

NOTES

To learn more:


SYMPOSIUM

INNOVATION TO IMPROVE PATIENT OUTCOMES

1. How would you rate the overall quality of this Lunch Symposium?

[ ] Poor
[ ] Average
[ ] Good
[ ] Excellent

2. Which one(s) of the topics presented today are you most interested in?

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3. Is there anything in the scientific program that was missing in your opinion?

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4. Any other comment/idea/suggestion you would like to share with us that would make future Sorin events more appealing to you:

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