2nd International Webinar on Minimal Invasive Extracorporeal Technologies

LIVE MiECT UPDATE MEETING

29-30 NOVEMBER 2019
Thessaloniki, Greece
Porto Palace Hotel

Watch free at www.miectis.org / Live discussion

PCO - SECRETARY - INFORMATION
INVENTICS - MEDEVENTS.GR
T. +30 2310 474 400 | E. info@medevents.gr | W. www.medevents.gr
GNTO License: 0933E60000074600
Website: www.miects.org

2nd MiECT Update Meeting
Thessaloniki, November 29-30, 2019

Symposium President

Kyriakos Anastasiadis
Professor of Cardiac Surgery
Head of Cardiothoracic Department
Deputy Head of the School of Medicine
Aristotle University of Thessaloniki
AHEPA University Hospital
Thessaloniki, Greece
Executive Board MiECTiS

Symposium Secretary

Polychronis Antonitsis
Ass. Professor of Cardiac Surgery
Aristotle University of Thessaloniki
Cardiothoracic Department
AHEPA University Hospital
Thessaloniki, Greece
Secretary MiECTiS

Congress Venue: Porto Palace Hotel, Thessaloniki, Greece
Faculty

Aamer Ahmed (UK)
Honorary Associate Professor
Department of Anaesthesia, Glenfield Hospital, Leicester

Gianni Angelini (UK)
Professor of Cardiac Surgery
Head, Bristol Heart Institute

Helena Argiriadou (Greece)
Ass. Professor of Anaesthesiology
Cardiothoracic Department, AHEPA University Hospital, Thessaloniki

Robert Baker (Australia)
Professor, Cardiac Surgery Research and Perfusion
Flinders University Medical Centre, Adelaide
Chair, International Consortium for Evidence-Based Perfusion AmSECT

Adrian Bauer (Germany)
Clinical Perfusionist.
MediClin Heart Center Coswig

Christophe Baufreton (France)
Professor of Cardiac Surgery
Department of Cardiac Surgery, University Hospital of Angers

Mark Bennett (UK)
Consultant Anaesthesiologist
Derriford Hospital, Plymouth
Steering Committee MiECTiS

Thierry Carrel (Switzerland)
Professor of Cardiovascular Surgery, University of Bern
Chairman, Clinic for Cardiovascular Surgery, Hospital of Bern
Executive Board MiECTiS

Yeong-Hoon Choi (Germany)
Professor of Cardiac Surgery
University of Cologne

Ignazio Condello (Italy)
Clinical Perfusionist,
GVM Care and Research, Bari

Filip De Somer (Belgium)
Professor, Clinical Perfusionist
Department of Interventional and Surgical Cardiology, University of Gent
Faculty

Apostolos Deliopoulos (Greece)
Clinical Perfusionist
Cardiothoracic Department, AHEPA University Hospital, Thessaloniki

Marco Di Eusanio (Italy)
Professor of Cardiac Surgery
Chief of Department of Cardiac Surgery, Lancisi Cardiovascular Center
Politechnic University of Marche - School of Medicine, Ancona

Balthasar Eberle (Switzerland)
Professor of Anaesthesiology
Department of Anaesthesiology, & Pain Medicine, Inselspital,
University Hospital of Bern

Aschraf El-Essawi (Germany)
Cardiac Surgeon
Department of Thoracic and Cardiovascular Surgery, Braunschweig
Steering Committee MiECTiS

Francesko Formica (Italy)
Assistant Professor of Cardiac Surgery
University of Milano-Bicocca, San Gerardo Hospital, Monza

Yuri Ganushchak (The Netherlands)
Clinical Perfusionist
Maastricht University Medical Center

Benoit Genette (Switzerland)
Product Manager & Sr. Clinical Specialist Blood Management Therapies EMEA, Medtronic Inc.

Robert Groom (Kenya)
Chief Perfusionist
Tenwek Hospital, Bomet

Serdar Gunaydin (Turkey)
Professor of Cardiovascular Surgery
Faculty, Department of Cardiovascular Surgery
Ankara City Hospital Campus, Ankara

Can Ince (The Netherlands)
Professor
Department of Translational Physiology, University of Amsterdam

Hansjörg Jenni (Switzerland)
Clinical Perfusionist
Clinic for Cardiovascular Surgery, University Hospital of Bern
**Faculty**

**Alexander Kadner (Switzerland)**  
Professor of Cardiac Surgery  
Clinic for Cardiovascular Surgery, University Hospital of Bern

**Bob Kiaii (Canada)**  
Professor of Cardiac Surgery  
Chief of Cardiac Surgery, London Health Sciences, Ontario  
President-Elect ISMICS

**Andreas Liebold (Germany)**  
Professor of Cardiac Surgery  
Department of Cardiac Surgery, University of Ulm

**Valerio Mazzei (Italy)**  
Cardiac Surgeon  
Department of Adult Cardiac Surgery  
Senior Consultant, Gemelli - Molise, Campobasso

**Marco Moscarelli (Italy)**  
Consultant Cardiac Surgeon  
Anthea Hospital, Bari

**Frank Merkle (Germany)**  
Organizational Head  
Academy for Perfusion and Steinbeis Transfer Institute, Cardiovascular Technology, German Heart Institute, Berlin

**Narain Moorjani (UK)**  
Consultant Cardiac Surgeon  
Royal Papworth Hospital, Cambridge

**John Murkin (Canada)**  
Professor of Anesthesiology  
Director Cardiac Anesthesiology,  
Department of Anesthesiology and Perioperative Medicine, UWO, London, Ontario  
President MiECTiS

**Farouk Oueida (Saudi Arabia)**  
Consultant Cardiac Surgeon  
“Saud Al Babtain” Cardiac Centre

**Prakash Punjabi (UK)**  
Professor, Consultant Cardiac Surgeon  
National Heart and Lung Institute, Imperial College, London  
Editor Perfusion Journal
Faculty

Vadim Popov (Russia)
Professor of Cardiac Surgery
Chief of Cardio-Vascular Surgery
Vishnevsky National Medical Research Center of Surgery, Moscow

Marco Ranucci (Italy)
Professor of Anaesthesiology
Head, Cardiothoracic Anaesthesiology Department, San Donato Hospital, Milan

Barney Reeves (UK)
Professor of Health Services Research
Bristol Trials Centre, Bristol Medical School, University of Bristol

Cyril Serrick (Canada)
Manager, Perfusion Services and ExVivo Therapies
University Health Network, Toronto
Vice President MiECTiS

Oz M. Shapira (Jerusalem)
Professor of Cardiothoracic Surgery
Department of Cardiothoracic Surgery, Hadassah Medical Center, Jerusalem

Pascal Starinieri (Belgium)
Clinical Perfusionist
Jessa Hospital, Hasselt, Belgium

Marco Stehouwer (The Netherlands)
Clinical Perfusionist,
St Antonius Hospital, Nieuwegein

Wim van Boven (Switzerland)
Consultant Cardiac Surgeon
Heart & Rhythm Centre, Zurich
Consultant Cardio-thoracic Surgeon
Amsterdam University Medical centers, the Netherlands

Alexander Wahba (Norway)
Professor of Thoracic Surgery
St. Olavs University Hospital, Trondheim
President EBCP
Scientific Programme

Friday 29th November 2019

16:00 - 16:15 Welcome – introduction to the Meeting
Kyriakos Anastasiadis, President

16:15 - 18:15 MiECC: state-of-the-art
Moderators: K. Anastasiadis, J. Murkin, G. Angelini

MiECC as therapy
K. Anastasiadis

The future of perfusion; the role of MiECT
F. Merkle

Modular MiECC; the ultimate solution
A. El-Essawi

MiECC: How it worth for my cardiac surgery practice
V. Popov

MiECC in the academic literature
P. Punjabi

Implementing MiECC in future perfusion guidelines
R. Baker

Integrating MiECC in perfusion training programmes
A. Wahba

Restarting a MiECC programme
W. van Boven

Evolution from closed systems to MiECC
O. Shapira

Expanding MiECTiS
P. Antonitsis

Discussants: T. Carrel, A. Bauer, R. Groom, A. Kadner, V. Mazzei, F. Oueida
Scientific Programme

Friday 29th November

18:15 - 19:15  MiECC; Research & Development
Moderators: A. El-Essawi, C. Serrick, M. Bennett
Representatives from perfusion products companies
Medtronic, Terumo, Getinge, LivaNova, Eurosets

19:15 - 20:00  MICS-MiECC; the future
Moderators: S. Gunaydin, P. Starinieri

Why MICS on MiECC?
S. Gunaydin

Minimally invasive cardiac surgery protocols
M. Di Eusanio

MICS on MiECC perfusion
P. Starinieri

Collaboration between MiECTiS and ISMICS
B. Kiaii

Discussants: V. Popov, F. Formica, P. Antonitsis
Scientific Programme

Saturday 30th November 2019

09:00 - 10:00

MiECC – Anaesthetic considerations
Moderators: J. Murkin, M. Bennett

Patient blood management in cardiac surgery
M. Ranucci

Patient blood management guidelines; the role of MiECC
A. Ahmed

P-O-C coagulation management in MiECC
E. Argiriadou

Enhanced recovery during surgery with MiECC
M. Bennett

Update on brain monitoring
J. Murkin

Discussants: B. Eberle, C. Baufreton, B. Genette, K. Anastasiadis, G. Angelini

10:00 - 11:45

MiECC and microcirculation
Moderators: G. Angelini, P. Punjabi

From minimal invasive extracorporeal circulation
type I to type III: the perfusionist’s view
H. Jenni

Attenuation of inflammatory response
YH Choi

End-organ protection
F. De Somer

Goal-directed perfusion
C. Serrick

Assessment of microcirculation in cardiac surgery
J. Murkin

Microcirculation in MiECC
M. Moscarelli
Scientific Programme

Saturday 30\textsuperscript{th} November 2019

Microcirculation and clinical outcome
C. Ince


11:45 - 12:45

COMICS trial
Moderators: G. Angelini, K. Anastasiadis, P. Antonitsis

Trial Update
G. Angelini


12:45 - 13:00

Closing remarks of 2\textsuperscript{nd} MiECT Update Meeting
Kyriakos Anastasiadis, President
John Murkin, President MiECTiS / 4\textsuperscript{th} MiECT Symposium

Sponsors: CSL Behring / GETINGE / Medtronic Hellas SA
DESIGNED FOR DURABILITY
THE IMPORTANCE OF CIRCULARITY
Avalus™ Bioprosthesis

VALVE CIRCULARITY ALLOWS FOR PROPERLY FUNCTIONING LEAFLETS

With a valve designed to maintain circularity, there is less stress on leaflet tissue, and the leaflets can properly function — which could result in increased valve durability.\(^1,^2\)

Without valve circularity, a patient is at risk of:\(^3,^4\)
- Poor blood flow
- Irregular leaflet motion
- Early valve failure

Circularity at the level of coaptation is central to minimizing early bioprosthetic failure. Lack of circularity puts undue strain on the leaflet tissue through uneven stress distribution. This increases risk of early deterioration resulting in decreased durability.\(^1,^4\)

AOA™ TISSUE TREATMENT MITIGATES CALCIFICATION

Avalus™ leaflets are treated with an anticalcification treatment — AOA™ (alpha amino oleic acid) — to mitigate calcification. The proprietary Medtronic AOA tissue treatment has over 20 years of clinical use on Medtronic surgical valves.*

AVALUS VALVE DESIGN MAINTAINS VALVE CIRCULARITY MAXIMIZES LEAFLET COAPTATION

Frame Resists Permanent Deformation
The Avalus™ flexible support frame with firm base is designed to maintain circularity and consistent hemodynamic performance.\(^2,^5\) Cereijo, et al. deduced that there may be a possible relationship between early bioprosthetic calcification and the distortion of the valvar ring.\(^6\)
- Two-part polymer frame minimizes stress zones on leaflets.
- Flexible stent post relieves stress on commissures.

Interior mounted leaflets minimize damaging contact with the frame — a design platform for long-term durability.

Supra-annular Placement Maximizes Coaptation
The working portion of the leaflets sits above the native annular level, maximizing leaflet coaptation.\(^2,^5\)

*No clinical data are available which evaluates the long-term impact of AOA treatment in patients.