

MiECT

Minimal Invasive
Extracorporeal Circulation Technologies

1st International
Symposium
June 13th-14th 2014
Thessaloniki, Greece

Convention
for Innovation
and Future

Site: www.themict.org

Symposium Presidents



Kyriakos Anastasiadis (Greece)

Associate Professor of Cardiothoracic Surgery,
Head of Cardiothoracic Department
AHEPA University Hospital, Thessaloniki.
anastasi@auth.gr



Thierry Carrel (Switzerland)

Professor of Cardiovascular Surgery, University of Berne.
Chairman, Clinic for Cardiovascular Surgery, Hospital of Berne.
thierry.carrel@insel.ch



Adrian Bauer (Germany)

Chief Perfusionist.
MediClin Heart Center Coswig,
Department of Cardiovascular Perfusion.
Vice President & Chairman Academic Committee,
"German Society of Cardiovascular Engineering",
baueradrian@msn.com

Symposium Secretaries



Polychronis Antonitsis (Greece)

Consultant Cardiothoracic Surgeon and Lecturer.
Department of Cardiothoracic Surgery,
AHEPA University Hospital, Thessaloniki.
antonits@auth.gr



Erich Gygax (Switzerland)

Chief Perfusionist
University Hospital, Bern
erich.gygax@insel.ch



Jan Schaarschmidt (Germany)

Clinical Perfusionist,
MediClin Heart Center, Coswig
Department of Cardiovascular Perfusion
German Delegate EBCCP
jan.schaarschmidt@yahoo.de

Aim of the Congress

This Congress is dedicated to Cardiothoracic Surgeons, Cardiothoracic Anaesthesiologists, Perfusionists and Industry Representatives who aim to further advance application of Minimal Invasive Extracorporeal Circulation Technologies into clinical practice. Lectures and hands-on training will focus on the following topics:

- Pathophysiology of Cardiopulmonary Bypass
- Open vs. Closed Systems
- MECC Equipment
- Commercially Available Circuits
- Perfusion Principles
- Surgical Considerations
- Anaesthetic Strategies
- Clinical Outcomes using MECC
- Application of MECC in Valve Surgery
- Application of MECC in non-coronary and non-valve procedures
- Modular MECC Systems

Congress Venue: Thessaloniki Concert Hall. One Main Auditorium (500 seats) and 2 additional Halls (Hall B and Hall C) with 200 seats.

Auspices: Aristotle University of Thessaloniki

World Society of Cardio-thoracic Surgeons

European Board of Cardiovascular Perfusion

Euro-Asian Bridge

Greek Ministry of Health and Welfare

Municipality of Thessaloniki

Local Organizing Committee

Kyriakos Anastasiadis (Greece)

Associate Professor of Cardiothoracic Surgery
Head of Cardiothoracic Department, AHEPA University Hospital, Thessaloniki
Secretary General, Hellenic Society of Thoracic and Cardiovascular Surgeons

Polychronis Antonitsis (Greece)

Lecturer in Cardiac Surgery
Cardiothoracic Department, AHEPA University Hospital, Thessaloniki

Helena Argiriadou (Greece)

Lecturer in Anaesthesiology, Cardiothoracic Department, AHEPA University Hospital, Thessaloniki
Treasurer, Society of Anaesthesiologists of Northern Greece

Apostolos Deliopoulos (Greece)

Chief Perfusionist
Cardiothoracic Department, AHEPA University Hospital, Thessaloniki

Christophoros Foroulis (Greece)

Assistant Professor of Thoracic Surgery
Cardiothoracic Department, AHEPA University Hospital, Thessaloniki
Secretary Special, Hellenic Society of Thoracic and Cardiovascular Surgeons

Savvas Gatzos (Greece)

Clinical Perfusionist
Cardiothoracic Department, AHEPA University Hospital, Thessaloniki

Vassilios Grosomanidis (Greece)

Assistant Professor of Anaesthesiology
Cardiothoracic Department, AHEPA University Hospital, Thessaloniki

Dimitrios Kampouroglou (Greece)

Consultant Cardiologist
Cardiothoracic Department, AHEPA University Hospital, Thessaloniki

Magdalena Kyparissa (Greece)

Consultant Cardiothoracic Anaesthesiologist
Cardiothoracic Department, AHEPA University Hospital, Thessaloniki

Georgios Tagarakis (Greece)

Lecturer in Cardiothoracic Surgery
Cardiothoracic Department, AHEPA University Hospital, Thessaloniki

Paschalis Tossios (Greece)

Assistant Professor of Cardiothoracic Surgery
Cardiothoracic Department, AHEPA University Hospital, Thessaloniki

Faculty

Helena Argiriadou (Greece)

Lecturer in Anaesthesiology, Cardiothoracic Department, AHEPA University Hospital, Thessaloniki
Treasurer, Society of Anaesthesiologists of Northern Greece

Friedhelm Beyersdorf (Germany)

Professor of Cardiothoracic Surgery
Head of University Heart Center of Freiburg - Bad Krozingen
Editor-in-Chief, European Journal of Cardio-thoracic Surgery

Filip De Somer (Belgium)

Professor
Department of Interventional and Surgical Cardiology, Heart Centre, University of Gent

Apostolos Deliopoulos (Greece)

Chief Perfusionist
Cardiothoracic Department, AHEPA University Hospital, Thessaloniki

Dimitrios Dougenis (Greece)

Professor of Cardiothoracic Surgery
Cardiothoracic Department, University Hospital of Patras
President of the Hellenic Society of Thoracic and Cardiovascular Surgeons

Balthasar Eberle (Switzerland)

Professor of Anaesthesiology
Department of Anaesthesiology, University Hospital of Bern

Yves Fromes (France)

Laboratory of Experimental Physiology, Institute of Myology, Paris

Andreas E. Gebhardt (Germany)

Executive Director, MediClin Heart Center Coswig

Jan Gummert (Germany)

Professor of Cardiothoracic Surgery
Director, Department of Thoracic and Cardiovascular Surgery, Bad Oeynhausen

Harald Hausmann (Germany)

Chief Cardiothoracic Surgeon
Director, Department of Thoracic and Cardiovascular Surgery, Herzzentrum Coswig

Roland Hetzer (Germany)

Professor of Cardiothoracic Surgery
Director, Department of Cardio-Thoracic and Vascular Surgery, German Heart Institute, Berlin

Hansjörg Jenni (Switzerland)

Clinical Perfusionist
Department of Cardiothoracic Surgery, University Hospital of Bern

Theodoros Kofidis (Singapore)

Associate Professor of Cardiothoracic Surgery
Head, Division of Adult Cardiac Surgery, National University Hospital, Singapore.

Mark Kurusz (USA)

Perfusionist
University of Texas Medical Branch
President and Director at Windmill Cardiovascular Systems

Andreas Liebold (Germany)

Professor of Cardiac Surgery
Director, Department of Cardiac Surgery, University of Ulm

Frank Merkle (Germany)

Clinical Perfusionist
Organizational Head, Academy for Perfusion and Steinbeis Transfer Institute
Cardiovascular Technology, German Heart Institute Berlin

Hans Nygaard (Denmark)

Professor of Biomedical Engineering
Principal of The Danish School of Perfusion,
Department of Clinical Medicine, Aarhus University Hospital

Sunil Ohri (UK)

Consultant Cardiac Surgeon
University Hospital Southampton
Training Programme Director for Cardiothoracic Surgery

Christos Papakonstantinou (Greece)
Emeritus Professor of Cardiothoracic Surgery
Aristotle University of Thessaloniki

Alois Philipp (Germany)
Chief Perfusionist
Department of Cardiothoracic Surgery, University Hospital of Regensburg

Marco Ranucci (Italy)
Professor of Anaesthesiology
Head, Cardiothoracic Anaesthesiology Department, Hospital “San Donato”, Milan
Former President, European Association of Cardiothoracic Anaesthesiologists

Marko Turina (Switzerland)
Emeritus Professor of Surgery,
Dean Emeritus, Medical Faculty, University Hospital Zurich

Olaf Stanger (Switzerland)
Consultant Cardiothoracic Surgeon
Department of Cardiothoracic Surgery, University Hospital of Bern

Frans Waanders (The Netherlands)
Clinical Perfusionist
Heartbeat, St. Antonius Hospital, Nieuwegein

Stephen Westaby (UK)
Professor
Consultant Cardiac Surgeon
Oxford Heart Centre, John Radcliffe Hospital, Oxford

Bernhard Winkler (Switzerland)
Consultant Cardiothoracic Surgeon
Department of Cardiothoracic Surgery, University Hospital of Bern

Urs Zenklusen (Switzerland)
Clinical Perfusionist
Department of Cardiothoracic Surgery, University Hospital of Basel

Lecturers/Chairpersons

Yasir Abu-Omar (UK)

Consultant Cardiac Surgeon
Department of Cardiothoracic Surgery, Papworth Hospital, Cambridge

Chrysanthi Bezevegi (Greece)

Emeritus President of the Hellenic Association of Technical Extracorporeal Circulation
Representative of the Greek Association EBCP (European Boarding Cardiovascular Perfusion)

Christa Boer (The Netherlands)

Associate Professor in Anesthesiology
VU University Medical Centre, Amsterdam

Ioannis Dimarakis (UK)

Cardiothoracic Surgeon
Department of Cardiothoracic Surgery, University Hospital of South Manchester, Manchester

Yves Durandy (France)

Chief Perfusionist
Perfusion and Intensive Care Department, J. Cartier Institute, Massy

Aschraf El-Essawi (Germany)

Consultant Cardiothoracic Surgeon
Department of Thoracic and Cardiovascular Surgery, Braunschweig

Mizja Faber (The Netherlands)

Perfusionist
Heartbeat, St. Antonius Hospital, Nieuwegein

James Ferguson (Canada)

Chief Perfusionist
Phoenix Perfusion Services, Arizona

Guim Si Goh (Singapore)

Principal Perfusionist
Department of Cardiac, Thoracic & Vascular Surgery
National University Heart Centre, Singapore (NUHCS)
Member of National University Health System (NUHS)

Serdar Gunaydin (Turkey)

Consultant Cardiac Surgeon
Director, Department of Cardiovascular Surgery, Medline Hospitals, Ankara

Stavros Hadjimiltiades (Greece)

Associate Professor of Cardiology
Cardiology Department, AHEPA University Hospital, Thessaloniki

Matthias Heringlake (Germany)

Professor of Anesthesiology
Director, Department of Anaesthesiology, University of Lübeck

Alexander Kadner (Switzerland)

Professor of Cardiothoracic Surgery,
Clinic for Cardiovascular Surgery, Hospital of Berne

Charalampos Karvounis (Greece)

Professor of Cardiology
Head, Department of Cardiology, AHEPA University Hospital, Thessaloniki

Isaak Keremidis (Greece)

Perfusionist
President of the Hellenic Association of Technical Extracorporeal Circulation

Nikolaos Maniadakis (Greece)

Professor of Health Economics
National School of Public Health, Athens

Brian McCloskey (Canada)

Perfusion Supervisor
Foothills Hospital, Calgary

John M. Murkin (Canada)

Professor of Anesthesiology
Director, Department of Anesthesiology and Perioperative Medicine
University Hospital, Schulich School of Medicine
University of Western Ontario

Farouk Oueida (Saudi Arabia)

Chairman of Cardiac Surgery,
Saud Al Babbain Cardiac Centre

Sotirios Prapas (Greece)

Consultant Cardiothoracic Surgeon
Director of Cardiac Surgery Department, Henry Dunant Hospital, Athens
Vice Chancellor, World Society of Cardio-thoracic Surgeons
Founder and Chancellor of Euro-Asian Bridge Society

Florian Prüller (Austria)

Specialist in Laboratory Medicine - Medical Biopathology
University Hospital Graz, Clinical Institute of Medical and Chemical Laboratory
Diagnostics

Thomas Pühler (Germany)

Consultant Cardiothoracic Surgeon
Clinic for Thoracic and Cardiovascular Surgery, Bad Oeynhausen, Germany

Prakash Punjabi (UK)

Consultant Cardiothoracic Surgeon
National Heart and Lung Institute, Imperial College
Surgical Tutor: Royal College of Surgeons – England

George Sarris (Greece)

Cardiac & Pediatric Cardiac Surgeon
Chief, Athens Heart Surgery Institute
Department of Pediatric Cardiac Surgery, Iaso

Uwe Schönrock (Germany)

Clinical Perfusionist
Department of Thoracic and Cardiovascular Surgery, Braunschweig

Christof Schmid (Germany)

Professor of Cardiothoracic Surgery
Head, Department of Cardiothoracic Surgery, University Hospital Regensburg

Hans Seiler (Germany)

Perfusionist

Cyril Serrick (Canada)

Manager - Perfusion & Anesthesia Services
University Health Network, Toronto

Wim Snoeks (The Netherlands)

Perfusionist
Regional Sales Manager ECT, Medtronic B.V.

Win Jan van Boven (Netherlands)

Consultant Cardiothoracic Surgeon
Department of Cardiothoracic Surgery, St. Antonius Hospital, Nieuwegein

Dimitrios Vasilakos (Greece)

Professor of Anaesthesiology and Intensive Care
Head, Department of Anaesthesiology, AHEPA University Hospital, Thessaloniki

Beat Walpoth (Switzerland)

Director, Cardiovascular Research,
Division of Cardiovascular Surgery, Geneva University Hospital

Patrick Weerwind (Netherlands)

Chief Perfusionist
Head, Department of Extra-Corporeal Circulation, Maastricht University Medical Center

Provisional Scientific Programme

Friday 13th June 2014

Main Auditorium

16:00-17:00 Round Table: MECC: A Historical Perspective

Chairpersons: T. Carrel, J. Gummert

Speakers: Alois Philipp: The Early Days

Frans Waanders: The Evolution of MECC

Adrian Bauer: What's next?

17:00-17:30 Chairperson: J. Murkin

Lecture: Neuroprotection after surgery with MECC (Polychronis Antonitsis)

17:30-18:30 Round Table: Special considerations in surgery with MECC

Chairpersons: Uwe Schönrock, H. Seiler

Speakers: Farouk Oueida: Minimal Invasive CABG for Severely Impaired LV function Patients: "The Resting Heart "

Mizja Faber: Cardioplegia administration during surgery with MECC

Brian McCloskey: Safety and modern MECC circuits

Olaf Stanger: Failure in MECC implementation

18:30-18:45 Break

18:45-19:15 Chairperson: M. Ranucci

Lecture: Cerebral protection strategies during cardiopulmonary bypass - unmasking the role of emboli and inflammation (John Murkin)

19:15-19:45 Chairperson: R. Hetzer

Lecture: CPB: A Historical Perspective (Stephen Westaby)

19:45-20:15 Chairperson: T. Carrel

Keynote Lecture: "MECC: The past, the present and the future" (Kyriakos Anastasiadis)

20:30-21:20 Opening Ceremony

21:30-23:00 Welcome Reception

Hall B

16:00-16:30 Chairperson: C. Schmid

Lecture: Organ preservation after surgery with MECC (Win Jan van Boven)

16:30-17:30 Round Table: The MECC concept

Chairpersons: A. Liebold, H. Hausmann

Speakers: Jan Schaarschmidt: The Coswig concept

Apostolos Deliopoulos: The AHEPA concept

Hansjörg Jenni: The Bern concept

17:30-18:00 Break

18:00-19:00 Round Table: Coagulation Management

Chairpersons: H. Argiriadou, H. Nygaard

Speakers: Urs Zenklusen: MECC and Coagulation

Christa Boer: POC during ECC

Florian Prüller: The influence of ECC on the coagulation system

19:00-19:30 Chairperson: A. Liebold

Lecture: Surgery with MECC in high-risk patients (C. Schmid)

Hall C

16:00-17:00 Session with oral presentations (4 abstracts included)

Chairpersons: S. Ohri, G. Goh

1. EMERGENCY CABG SURGERY IN PATIENTS WITH OR WITHOUT ACUTE MYOCARDIAL INFARCTION USING THE MINIMIZED EXTRACORPOREAL CIRCULATION

Magdalena Rufa*, Jens Schubel*, Christian Ulrich **, Jan Schaarschmidt**, Adrian Bauer** & Harald Hausmann*

*Department of Cardiovascular Surgery, Heart Center Coswig, Coswig, Germany

**Department of Cardiovascular Perfusion, Heart Center Coswig, Coswig, Germany

2. IS THERE A LEARNING CURVE WHEN USING MINIMAL EXTRACORPOREAL CIRCULATION IN CORONARY REVASCULARIZATION PROCEDURES?

P. Antonitsis, C. Asteriou, H.Argiriadou, A. Deliopoulos, S. Gatzos, K. Anastasiadis
Cardiothoracic Department, AHEPA University Hospital, Thessaloniki, Greece

3. MINIMAL ECCs ASSURE PERFORMANCE OUTCOME

B. Winkler*, U. Zenklusen, T. Döbele, B. Kohler, M. Grapow, F. Eckstein

Department of Cardiac Surgery, University Hospital Basel, Basel, Switzerland

4. CORONARY ARTERY REVASCULARIZATION WITH A MINIMAL EXTRACORPOREAL CIRCULATION TECHNIQUE: SHOTGUN ANALYSIS IN A PROSPECTIVE, RANDOMIZED TRIAL WITH THREE DIFFERENT PERFUSION TECHNIQUES

A.H. Kiessling, M. May, H. Keller, M. Diefenbach, C. Reyher, A. Moritz

Johann Wolfgang Goethe University Hospital, Main, Germany

17:00-17:30 Chairperson: M. Kurusz

Lecture: Adverse events in MECC (Erich Gygax)

17:30-18:00 Break

18:00-19:00 Session with oral presentations (4 abstracts included)

Chairpersons: B. Eberle, C. Serrick

**1. EFFECTS OF CELL SALVAGED AND DIRECTLY RETRANSFUSED
MEDIASTINAL SHED BLOOD ON THE POSTOPERATIVE COMPETENCY
OF THE COAGULATION SYSTEM AFTER CABG SURGERY**

Ulrich C*, Bauer A. *, Eberle T**., Schaarschmidt J*., Lucy J*., Hausmann H.***

* Department of Cardiovascular Perfusion, MediClin Heart Center Coswig, Coswig, Germany

**Department of Anaesthesiology, MediClin Heart Center Coswig, Coswig, Germany

***Department of Cardiovascular Surgery, MediClin Heart Center Coswig, Coswig, Germany

**2. THE RELATIVE INFLUENCE OF MINIATURISED
CARDIOPULMONARY BYPASS AND OTHER PERIOPERATIVE
FACTORS ON BLOOD TRANSFUSION REQUIREMENT AFTER HEART
SURGERY**

M. Bennett, M. Larsen, S. Asopa, G. Webb, A. Wright, C. Lloyd

“South West” Cardiothoracic Centre and Centre for Health and Environmental Statistics, Plymouth, UK

**3. LOWER PLATELET AGGREGATION MIGHT REDUCE
PERIOPERATIVE BLEEDING IN MINI-CIRCUIT CARDIOPULMONARY
BYPASS COMPARED TO CONVENTIONAL CARDIOPULMONARY
BYPASS**

H. Kehara, T. Takano, T. Fujii, T. Gomibuchi, K. Nakahara, N. Ohhashi, K. Komatsu, Y. Ohtsu, T. Terasaki, Y. Wada, T. Seto, D. Fukui, J. Amano

Department of Cardiovascular Surgery, Shinshu University School of Medicine

**4. 5-YEAR EXPERIENCE OF BLOOD TRANSFUSION IN CORONARY
ARTERY BYPASS GRAFT SURGERY’ PATIENTS USING MINIATURISED
EXTRACORPOREAL CIRCULATION**

S. Asopa, M. Bennett, G. Webb, C. Lloyd

Derriford Hospital, Plymouth, UK

19:00-19:30 Chairperson: Y. Durandy

Lecture: Venous De-Airing - a “must have”? (Uwe Schönrock)

Hall D

Wet Lab Training Simulation on Minimal Cardiopulmonary Bypass

Involves hands-on training using a computerized perfusion model on various clinical scenarios, supervised by specialists on MECC technology

Free on-site registration for the event will be mandatory

Limited number of participants

Saturday 14th June 2014

Main Auditorium

8:00-08:30 Chairperson: Y. Fromes

Lecture: Heparin-coated circuits (Christophoros Foroulis)

08:30-09:00 Chairperson: J. Ferguson

Lecture: Air elimination strategies in different MECC procedures (Erich Gygax)

09:00-09:30 Chairperson: F. Waanders

Lecture: Mini-Circuits and Air Concerns- A straightforward path towards reduced air embolism and blood conservation (James Ferguson)

09:30-10:00 Chairperson: Ch. Papakonstantinou

Lecture: Origin of extracorporeal circulation (Marko Turina)

10:00-10:30 Chairperson: M. Turina

Lecture: Towards ..."specialized" scientific societies (S. Prapas)

10:30-10:45 Break

10:45-11:45 Round Table: MECC: The anaesthesiologist's perspective

Chairpersons: D. Vasilakos, J. Murkin

Speakers: Balthasar Eberle: MECC Anesthetic Management

Marco Ranucci: Heparin management in MECC

Matthias Heringlake: NIRS and organ protective perfusion: the Anesthetist's point of view

11:45-12:15 Chairperson: M. Ranucci

Lecture: Impact of blood-conservation strategies in cardiac surgery (Helena Argiriadou)

12:15-13:15 Round Table: MECC: The Perfusionist's Perspective

Chairpersons: F. Merkle, M. Kurusz

Speakers: Yves Durandy: Is there an optimal pump?

Patrick Weerwind: Can minimized circuits be safer?

Filip de Somer: Which is the optimal flow and pressure?

13:15-13:45 Chairperson: A. Bauer

Keynote Lecture: Implementation of MECC: from “experimental” setting to routine strategy (Thierry Carrel)

13:45-15:00 Lunch Break-Exhibition- Satellite Symposium

15:00-16:15 Ask The Expert Session: Contributors (Kyriakos Anastasiadis, Adrian Bauer, Erich Gygax, Andreas Liebold, Marco Ranucci, Helena Argiriadou, Marc Kurusz, Filip De Somer, Alois Philipp, Hans Jenni, Yves Fromes, Uwe Schönrock)

16:15-17:15 Round Table: Safety, Simulation & Education in Extracorporeal Technology

Chairpersons: S. Ohri, J. Schaarschmidt

Speakers: Mark Kurusz: A Life in Perfusion, How to avoid incidences in Perfusion
Hans Nygaard: The role of science in preventing perfusion incidences and aberrations
Frank Merkle: Simulation - train the pilot

17:15-17:30 Break

17:30-18:30 MiECTiS Constitution and General Assembly of the Founding Members

18:30-19:00 Chairperson: K. Anastasiadis

Keynote Lecture: 10 open questions about "MECC" - What we need to answer. (Adrian Bauer)

19:00-20:00 Round Table: Indications for MECC

Chairpersons: K. Anastasiadis, A. Bauer, T. Carrel

Speakers: Jan Gummert: OPCAB - the philosopher’s stone?
Andreas Liebold: Let's try something else- MECC as a standard for coronary surgery?
Harald Hausmann: Decision making: CECC, MECC or OPCAB?

21:00 Gala Dinner

Hall B

08:00-08:30 Chairperson: B. Winkler

Lecture: Reduced LV function and MECC - just equivalent to CECC? (Thomas Pühler)

08:30-09:00 Chairperson: A. Philipp

Lecture: MECC in the cath-lab (Stavros Hadjimiltiades)

09:00-09:30 Chairperson: B. Eberle

Lecture: Impact of cell-saving strategies in cardiac procedures (Paschalis Tossios)

09:30-10:30 Round Table: MECC in Aortic Valve Surgery

Chairpersons: A. Yilmaz, E. Gyax

Speakers: Ioannis Dimarakis: The Evolution of MECC in Aortic Surgery

Hansjörg Jenni: MECC Perfusion in Aortic Surgery

Aschraf El-Essawi: MiECC (RoCsafe) for all procedures with heart lung machine?

10:30-11:00 Break

11:00-11:30 Chairperson: S. Prapas

Lecture: More Minimal than Minimal; quo vadis Heart Surgeon? (Theodoros Kofidis)

11:30-12:30 Round Table: MECC in operations other than coronary and valves

Chairpersons: B. Winkler, E. Gyax

Speakers: S. Westaby: LVAD implantation under minimal-CPB

T. Carrel: Non coronary surgery performed with MECC support

A. Yilmaz: Mitral valve surgery with MECC

C. Serrick: Use of MECC in lung transplantation procedures

12:30-13:00 Chairperson: T. Pühler

Lecture: Building a training program in surgery with MECC (Sunil Ohri)

13:00-13:30 Chairperson: C. Schmid

Lecture: Multicenter trials with minimized bypass: Results of the RocSafe Trial (A. El-Essawi)

14:00-15:00 Satellite Symposium (sponsored by Sorin)

16:00-17:00 Round Table: MECC in pediatric cardiac surgery

Chairperson: G. Sarris

Speakers: Thierry Carrel: Pediatric MECC- Just a dream?

Hansjörg Jenni: Pediatric MECC-Quo vadis

S. Gunaydin: Safe Minimization of CPB by Optimizing Circuit Design for Pediatric Patients

17:00-17:30 Break

Hall C

08:00-09:00 Session with oral presentations (4 abstracts included)

Chairpersons: Y. Abu-Omar, I. Keremidis

1. EXTRACORPOREAL MEMBRANE OXYGENATION BY MEANS OF SUITABLE SUPPORT AFTER EMERGENCY SURGERIES FOR PULMONARY EMBOLISM

F. Sobirov, A. Mansurov, A. Haydarov, Sh. Islambekova
Scientific Center of Surgery, Uzbekistan

2. PEDIATRIC “CARDIAC” ECMO SUPPORT: IMPROVED OUTCOME WITH EVOLVING TECHNOLOGY AND PRACTICE REFINEMENTS OVER 16 YEARS

Ch. Alexopoulos, N. Hakim, P. Zografos, E. Protopapas, P. Zavaropoulos, G. Kirvassilis, G.E. Sarris
Athens Heart Surgery Institute and “Iaso” Children's Hospital, Greece

3. THE USE OF ARTERIOVENOUS PCO₂ DIFFERENCE (Delta PCO₂) AS AN INDEX OF THE DENSITY OF CAPILLARY PERFUSION DURING PEDIATRIC CARDIOPULMONARY BYPASS AND ECMO

P. Zavaropoulos, Ch. Alexopoulos, N. Hakim, P. Zografos, E. Protopapas, G. Kirvassilis, G.E. Sarris
Athens Heart Surgery Institute and “Iaso” Children's Hospital, Greece

4. “ETERNAL ECMO”: THE CHALLENGE OF PROLONGED POST-CARDIOTOMY EXTRACORPOREAL MEMBRANE OXYGENATION

Ch. Alexopoulos, N. Hakim, P. Zografos, E. Protopapas, P. Zavaropoulos, G. Kirvassilis, G.E. Sarris
Athens Heart Surgery Institute and “Iaso” Children's Hospital, Greece

09:00-10:00 Round Table: Pathophysiological changes during surgery with MECC

Chairpersons: W. van Boven, U. Zenklusen

Speakers: Marco Ranucci: The impact of reduced hemodilution on outcome
Yves Fromes: Optimization of extracorporeal perfusion: contribution of the minimal ECC systems
Christa Boer: Insights in the pathophysiology of microcirculation

10:00-10:30 Chairperson: D. Dougenis

Lecture: Fault management in the hospital vs. aviation: the pilot's point of view.
(Andreas Gebhardt)

Commented [AB1]: He is our administrative manager in coswig and he for 14 years a jet pilot. He is author of a book with the same name
-If you agree – I will ask him to come

10:30-11:00 Break

11:00-12:15 Session with oral presentations (5 abstracts included)

Chairpersons: U. Schönrock, F. Prüller

1. A VERSATILE MINIMIZED SYSTEM: THE STEP TOWARDS SAFE PERFUSION

Y.M. Ganushchak, E.P.J. Körver, Y. Yamamoto, P.W. Weerwind
Maastricht University Medical Center

2. HOW WE DEVELOPED A SAFER MINI BYPASS SYSTEM WITH THE USE OF A STOCKERT HEART LUNG BYPASS MACHINE AND MEDTRONIC FUSION OXYGENATOR

L.A. McLean, W. Medlam, J. Bell, RB. Bennett, RV. Bennett, E. Turner, K. Jagannadham E. Westwood.

Department of Clinical Perfusion Science, "Castle Hill Hospital", Hull, East Yorkshire, UK

3. MINIMALISING THE CARDIOPULMONARY BYPASS CIRCUIT AND THE CONSOLE

U. Borrelli ECCP¹, Andrea Silvestri CCP¹, M. Detroux MD¹, R. Nottin MD², N. Al-Attar MD³, A. Pappalardo MD⁴, M. Gabrielli MD⁴, C. Gripari CCP⁴, A. Scala CCP⁴, S. Mercurio CCP¹, G. Gustin CCP⁴, D. Fasolo CCP⁴

¹ Department of Cardiovascular Surgery, Grand Hôpital de Charleroi, Gilly, Belgium

² Department of Cardiac Surgery, Center Surgical Marie Lannelongue, Paris, France

³ Department of Cardiac Surgery, Golden Jubilee Hospital, Glasgow, UK

⁴ Department of Cardiac Surgery, Ospedali Riuniti, Trieste, Italy

4. IS THREE-STAGE VENOUS CANNULA SUPERIOR TO DUAL-STAGE DURING SURGERY WITH MINIMAL EXTRACORPOREAL CIRCULATION?

P. Antonitsis, A. Deliopoulos, S. Gatzos, S. Mimikos, P. Tossios, K. Anastasiadis
Cardiothoracic Department, AHEPA University Hospital, Thessaloniki, Greece

5. MICROPLEGIA DURING CORONARY ARTERY BYPASS GRAFTING WAS ASSOCIATED WITH LESS LOW CARDIAC OUTPUT SYNDROME: A PROPENSITY-MATCHED COMPARISON

K. Algarni, R. Weisel, C. Caldarone, M. Manjula, T. Yau
University of Toronto

12:15-13:45 Session with oral presentations (6 abstracts included)

Chairpersons: P. Punjabi, Ch. Bezevegi

1. BENEFITS OF CLOSED MINIATURIZED CARDIOPULMONARY BYPASS

D. Gifford, S. Colah, S. Farid, J. Irons, M. Gilhouly, N. Moorjani
Papworth Hospital NHS Trust, Cambridge UK

2. COGNITIVE BRAIN FUNCTION AFTER CORONARY BYPASS GRAFTING WITH MINIMIZED EXTRACORPOREAL CIRCULATION (MECC)

D. Reineke (1), T. König (1), K. Meszaros (2), G. Sodeck (3), G. Erdoes (4), L. Englberger (1), M. Czerny (5), T. Carrel (1)

(1) Department of Cardiovascular Surgery, University Hospital Berne, Switzerland; (2) Department of General Surgery, Medical University of Graz, Austria; (3) Department of Emergency Medicine, Medical University of Vienna, Austria; (4) Department of Anesthesiology, University Hospital Berne, Switzerland; (5) Division of Cardiovascular Surgery, University Hospital Zurich, Switzerland

3. MINIMAL EXTRACORPOREAL CIRCULATION REDUCES GASEOUS MICROEMBOLI AND PRESERVES NEUROCOGNITIVE FUNCTION: A SINGLE-CENTRE PROSPECTIVE RANDOMIZED STUDY

P. Antonitsis, S. Mimikos, G. Kostarelou, A. Kleontas, A. Deliopoulos, S. Gatzos, C. Foroulis, P. Tossios, K. Anastasiadis
Cardiothoracic Department, AHEPA University Hospital, Thessaloniki, Greece

4. THE INFLUENCE OF PERIOPERATIVE FACTORS TO GENERATE 'OUTLIERS' IN CARDIAC SURGERY ASSOCIATED ACUTE KIDNEY INJURY – A PRELIMINARY INVESTIGATION INCLUDING DIABETES AND METHOD OF CARDIOPULMONARY BYPASS

M. Bennett, S. Asopa, G. Webb, M. Gomez-Cano, C. Lloyd
"South West" Cardiothoracic Centre and Centre for Health and Environmental Statistics, Plymouth, UK

5. PERFUSION STRATEGIES WITH ANTEGRADE AND RETROGRADE CARDIOPLEGIA IN ELDERLY UNDERGOING ISOLATED CABG

K. Algarni, M. Al Jughiman, T. Yau
University of Toronto, Toronto, Canada

6. MINIMAL INVASIVE EXTRACORPOREAL CIRCULATION IN 64 COMPLEX CARDIAC PROCEDURES – IS IT FEASIBLE AND SAFE?

J. Schubel*, A. Xhymshiti*, C. Ulrich**, J. Schaarschmidt**, T. Eberle***, A. Bauer**, H. Hausmann*

*Department of Cardiovascular Surgery, Heart Center Coswig, Coswig, Germany

**Department of Cardiovascular Perfusion, Heart Center Coswig, Coswig, Germany

***Department of Anaesthesiology, Heart Center Coswig, Coswig, Germany

13:45-15:00 Lunch Break, Satellite Symposia, Exhibition visits

16:00-16:30 Chairperson: B. McCloskey

Lecture: The mysteries of Perfusion (P. Punjabi)

16:30-17:00 Chairperson: A. Liebold

Lecture: MECC: The surgical point of view (Bernhard Winkler)

17:00-17:30 Break

Hall D

Wet Lab Training Simulation on Minimal Cardiopulmonary Bypass

Involves hands-on training using a computerized perfusion model on various clinical scenarios, supervised by specialists on MECC technology

Free on-site registration for the event will be mandatory

Limited number of participants