

## Scientific programme

Thursday June 11th 2015

- 09.00 hrs. Theatre Hall open
- 09.10 - 09.15 hrs. Opening of the scientific sessions  
Barbara Cieslak-Szolowska  
Host president
- 09.15-10.45 hrs. Scientific Session  
Moderators: Anna-Angeliki Tsiiorva, Erminia Macera Mascitelli
- 09.15-09.25 hrs. **1** COAGULATION PATTERNS DURING AND AFTER  
CARDIOPULMONARY BYPASS DETECTED BY  
THROMBELASTOGRAPHY  
*Roman Hájek, I. Fluger, O. Zušich, R. Zezula, M. Šimek, P. Šantavý, V. Lonský, J. Růžicková*  
University Hospital Olomouc, Cardiac Surgery  
Olomouc, Czech Republic
- 09.25-09.35 hrs. **2** THE INFLUENCE OF CARBON DIOXIDE INSUFFLATION ON  
HEPARIN POTENCY AND THROMBIN FORMATION DURING  
OPEN HEART SURGERY: AN IN VITRO STUDY  
*Karin A.M. Gorter, Marco C. Stehouwer, Bart P. van Putte, Eline A. Vlot, Rolf T. Urbanus*  
St. Antonius Hospital Nieuwegein, Department of  
Extracorporeal Circulation,  
Nieuwegein, The Netherlands
- 09.35-09.45 hrs. **3** PRELIMINARY RESULTS ON THE NOVEL 1 STUDY:  
NEUTRALIZABLE ANTICOAGULANT EVALUATION IN  
EXTRACORPOREAL CIRCULATION  
*Yves Fromes MD, PhD, Chantal Krezel PhD, Pierre Guéret MD, Sophie Combe MD, Maurice Petitou PhD, Eric Neuhart MD*  
University of Paris, Physiology Lab  
Paris, France
- 09.45-10.05 hrs. Discussion and extra IAQ
- 10.05-10.15 hrs. **4** HIGH RISK PCI WITH MODIFIED CIRCULATORY SUPPORT (MINI-  
SYSTEM) WITH FULLY PERCUTANEOUS SOLUTION  
*Josef Bis\*, J. Stasek\*, M. Volt\*\*, J. Dusek\*, M. Horak\*\*, R. Schmidt\*\**  
University Hospital Hradec Kralove, \* 1st Department of  
Cardioangiology, \*\* Department of Cardiosurgery  
Hradec Kralove, Czech Republic

10.15- 10.20 hrs.	Discussion and IAQ
10.20-10.40 hrs. <b>5</b>	<p>CHIMERA A RISK FACTOR WITH THE USE OF HEATER-COOLERS DURING EXTRACORPOREAL CIRCULATION (ON INVITATION)</p> <p><i>Joost Hopman</i> University Medical Centre Radboud, Department of Microbiology Nijmegen, The Netherlands</p>
10.40-10.45 hrs.	Discussion
10.45-11.15 hrs.	Coffee and Tea break and Exhibition
11.15- 12.45 hrs.	<p>Scientific Session</p> <p>Moderators: Marianne Wijers, Robert Regan</p>
11.15- 11.25 hrs. <b>6</b>	<p>NOVEL METHOD OF CONVERTING REGULAR CPB INTO ECMO WITH MINIMAL USAGE OF BLOOD PRODUCTS.</p> <p><i>Gopi Krishnan Thalapathy, Salah Al Harthy, Maria Al Balushi, Abdul Rahim, Adil Al Nofil, Habiba, Thuwayba, Saleh Kiyomi, Fatma Al Ajmi</i> Royal Hospital, TCVS Muscat, Oman</p>
11.25-11.35 hrs. <b>7</b>	<p>EXTENSION OF THE OXYGENATOR SERVICE LIFE IN ECMO/ECLS THERAPY DUE TO A CHANGE IN THE OFFERED SERVICE</p> <p><i>Maximilian Halbe, T. Dreizler, M. Schärli, K. van Tilburg, S. Fehlings, F. Maisano, M. Wilhelm</i> University Hospital Zürich, Klinik of Cardiac and Vascular Surgery Zürich, Switzerland</p>
11.35-11.45 hrs.	Discussion and IAQ
11.45-11.55 hrs. <b>8</b>	<p>FIRST PRECLINICAL EVIDENCE ON THE EFFICIENCY OF CONTACT PHASE INHIBITION IN THE SETTING OF ECMO PERFUSION.</p> <p><i>Yves Fromes MD, PhD, Chantal Krezel PhD, Pierre Guéret MD, Michel Guyaux PhD, Edmond Godfroid PhD, Sophie Combe MD</i> University of Paris, Physiology Lab Paris, France</p>
11.55-12.00 hrs.	Discussion and IAQ
12.00-12.10 hrs. <b>9</b>	<p>LONG-TERM HEALTH-RELATED QUALITY OF LIFE AFTER EXTRACORPOREAL LIFE SUPPORT IN ADULT RESPIRATORY FAILURE PATIENTS</p>

Serena O'Brien\*, E. Carton\*, G. Fealy\*\*  
Mater Misericordiae University Hospital\*, University College  
Dublin\*\*, Intensive care unit\*, School of Nursing\*\*  
Dublin, Ireland

- 12.10-12.20 hrs. Discussion and extra IAQ
- 12.20-12.40 hrs. **10** TREATMENT OF AORTIC STENOSIS IN THE ELDERLY  
POPULATION  
Dariusz Jagielak
- 12.40-12.45 hrs. Discussion
- 12.45 -14.15 hrs. Lunch break and Exhibition
- 14.15-15.30 hrs. Scientific Session  
Moderators: Vladimír Lonský, Salomé Castelo Branco
- 14.15-14.25 hrs. **11** OPTIMIZATION OF PERFUSION WITH THE USAGE OF  
CONTINUOUS CONTROL OF OXYGENATION DURING CPB IN  
ACUTE ENDOCARDITIS  
*Ruzica Mrkonjic*, M.Sentić, N. Marušić, M. Solarić, N. Lukačević,  
N. Pejčić  
Clinical Hospital Dubrava, Department of cardiac and  
transplantation surgery  
Zagreb, Croatia
- 14.25-14.30 hrs. Discussion and IAQ
- 14.30-14.40 hrs. **12** USE OF CRISTALLOID CARDIOPLEGIC SOLUTION IN MINIMALLY  
INVASIVE MITRAL SURGERY DECREASES POSTOPERATIVE  
CREATININE LEVELS  
*Annette de Jong*, G. Lanzillo, L. Karazanishvili, E. Stelian, D.  
Benea, E. Novelli, G. Dora, L. Renzi, M. Diena, U.F. Tesler  
Policlinico di Monza, Clinica San Gaudenio, Cardiac Surgery,  
Service of Perfusion  
Novara, Italy
- 14.40-14.45 hrs. Discussion and IAQ
- 14.45-14.55 hrs. **13** SCAVENGER RECEPTOR FOR HAPTOGLOBIN-HEMOGLOBIN,  
CD163, AS A MARKER OF POSTOPERATIVE COMPLICATIONS IN  
CARDIAC SURGICAL PATIENTS  
Martina Kolackova\*, Jan Krejsek\*, Pavel Kunes\*\*, Martin  
Volt\*\*, Jiri Mandak\*\*  
Charles University in Prague, Faculty of Medicine and  
University Hospital in Hradec Kralove

\* Department of Clinical Immunology and Allergy,  
\*\*Department of Cardiac Surgery  
Hradec Kralove, Czech Republic

- 14.55-15.00 hrs. Discussion and IAQ
- 15.00-15.10 hrs. **14** CHRONIC DIALYSED PATIENT ON CPB – PROBLEM FOR A PERFUSIONIST?  
*Ondrej Zuščík*, Vladimir Lonsky, A. Klváček, P. Šantavý, P. Caletka, Z. Mikisova, V. Pavlíček  
Palacký University Medical School and Teaching Hospital,  
Cardiac Surgery  
Olomouc, Czech Republic
- 15.10-15.30 hrs. Discussion and extra IAQ
- 15.30-16.00 hrs. Coffee and Tea break and Exhibition
- 16.00-17.00 hrs. Scientific Session  
Moderators: Anne Louise Bellaiche, Vitaliy Maksymenko
- 16.00-16.10 hrs. **15** TWO SEPARATE BYPASS: THE NEW TECHNIQUE OF SELECTIVE CEREBRAL PERFUSION FOR TOTAL AORTIC ARCH REPLACEMENT  
*Evgenii Rosseikin*, M. Evdokimov, V. Bazylev, S. Vachev, T. Gebgart, K. Karchevskaja  
Federal Center of Cardiovascular Surgery (Penza)  
Cardiovascular Surgery; Anesthesiology  
Penza, Russian Federation
- 16.10-16.20 hrs. **16** EXTENSIVE THORACIC SURGERY: A DOUBLE ARTERIAL PERFUSION STRATEGY TO AVOID LOWER BODY HYPOTHERMIC CIRCULATORY ARREST  
*Hansjoerg Jenni\**, M.Czerny\*, E.Gygax\*, F.Schönhoff\*, Reto Basciani\*\*, T.Carrel\*, J.Schmidli\*  
University Hospital Berne  
\*Department of Cardiovascular Surgery, \*\*Department of Anesthesiology  
Berne, Switzerland
- 16.20-16.30 hrs. **17** MULTIORGAN PROTECTION FOR ARCH SURGERY WITH FROZEN ELEPHANT TRUNK: ANTEGRADE PERFUSION INSTEAD OF LONG CIRCULATORY ARREST  
*Claudio Roscitano*, S. Bichi, M. Parrinello, S. Nadalin, F. Cama, A. Cricco, A. Fiorucci, G. Esposito, G. Albano  
Humanitas Gavazzeni - Bergamo

Perfusion Service - Department of Cardiac Surgery -  
Department of Anaesthesia and ICU  
Milano, Italy

16.30-16.40 hrs. **18** RETROGRADE CEREBRAL PERFUSION WITH DEEP  
HYPOTHERMIA – CHOICE OF EFFECTIVE SOLUTIONS  
*V.I. Kravchenko*, I.M. Kravchenko, O.A. Tretyak, V.B.  
Maksymenko, O.B.Larionova, O.V. Ribakova, A.Y.Lagutin,  
B.V.Batsak, A.S.Samorodova, G.V.Knyshov  
M. Amosov National Institute of Cardiovascular Surgery NAMS  
Kyiv, Ukraine

16.40-17.00 hrs. Discussion and IAQ

### Friday June 12th 2015

09.00 hrs. Theatre Hall open

09.15-10.45 hrs. Scientific Session  
Moderators: Robert Regan, Robert Baker

09.15-09.25 hrs. **19** INFLUENCE OF THE SURFACE AREA OF THE OXYGENATOR  
FIBERS AND THE INTEGRATED ARTERIAL SCREEN FILTER ON AIR  
REMOVAL CHARACTERISTICS: A CLINICAL EVALUATION  
*Marco C. Stehouwer*, Johannes C. Kelder, Roel de Vroege, Erik  
Hofman, Peter Bruins  
Sint Antonius Ziekenhuis, Dutch Perfusion Service, Thoracic  
Surgery  
Bunnik, The Netherlands

09.25-09.35 hrs. **20** EVALUATION OF AIR HANDLING CAPABILITY IN A NEW  
*Seanne Azzolina MS ECCP*; Andrea Cavallucci ECCP  
Maria Beatrice Hospital, Department of Cardiovascular  
Surgery, Florence GVM Care& Research, Perfusion  
Cardiovascular Surgery  
Florence, Italy

09.35-09.45 hrs. **21** ASSOCIATION BETWEEN GASEOUS MICROEMBOLI FROM AN  
EXTRACORPOREAL CIRCUIT AND BIOMARKERS OF  
NEUROLOGICAL INJURY  
*Marco C. Stehouwer*, Roel de Vroege, Eline F. Bruggemans, Erik  
Hofman, Peter Bruins, Marijn Molenaar, Wim van Oeveren  
Sint Antonius Ziekenhuis, Dutch Perfusion Service, Thoracic  
Surgery  
Bunnik, The Netherlands

- 09.45-10.05 hrs. Discussion and extra IAQ
- 10.05-10.15 hrs. **22** CARDIOPULMONARY BYPASS USING ENDOCLAMP IN CKTCH  
BRNO, CZECH REPUBLIC  
*Jiri Slavik, J. Ondrasek J. Cernosek, J. Nesporova, R. Norek B. Pichovcova, E. Jetmarova*  
Center for Cardiovascular Surgery and Transplantation,  
Perfusion Department  
Brno, Czech Republic
- 10.15-10.20 hrs. Discussion and IAQ
- 10.20-10.40 hrs. **23** INFLAMMATION INDUCED BY CARDIAC SURGERY WITH  
RESPECTS TO THE CONTRIBUTION OF EXTRACORPOREAL  
CARDIOPULMONARY BYPASS (ON INVITATION)  
*Jan Krejsek, Martina Kolackova, Pavel Kunes, Jiri Mandak*  
Charles University in Prague, Faculty of Medicine and  
University Hospital Hradec Kralove  
Department of Clinical Immunology  
Hradec Králové, Czech Republic
- 10.40-10.45 hrs. Discussion and IAQ
- 10.45-11.15 hrs. Coffee and Tea break and Exhibition
- 11.15-12.45 hrs. Scientific Session  
Moderators: Hansjoerg Jenni, Kevin Charette
- 11.15-11.25 hrs. **24** RELATION BETWEEN CEREBRAL OXYMETRY (NIRS) AND  
CARDIAC OUTPUT DURING EXTRACORPOREAL CIRCULATION IN  
PEDIATRIC CARDIAC SURGERY  
*Carlotta Di Santo CCP, MS; Daria Fichera ECCP, MS; Annalisa Dalle Palle CCP, MS; Guido Di Gregorio MD, PhD; Massimo Padalino MD, PhD; Giovanni Stellin MD; Demtrio Pittarello MD, Fabio Zanella CCP, MS*  
University Hospital of Padua  
Perfusion Department; Anesthesia Department; Pediatric and  
Congenital Cardiac Surgery Unit  
Padova, Italy
- 11.25-11.30 hrs. Discussion and IAQ
- 11.30-11.40 hrs. **25** THE USAGE OF A1-ADRENERGIC BLOCKADE TRIAL FOR  
HEMODYNAMIC MANAGEMENT DURING CARDIOPULMONARY  
BYPASS IN NEWBORNS  
*Nikolay Karakhalis, Aleksey Shadrin, Elena Pavlenko, Vyacheslav Shibaev, Vladimir Rasponomarev*

Scientific Research Institute Krasnodar Regional Clinical  
Hospital, PICU and Anesthesia department  
Krasnodar, Russian Federation

- 11.40-11.45 hrs. Discussion and IAQ
- 11.45-11.55 hrs. **26** MODULATION OF THE HEMOGLOBIN–OXYGEN RELATIONSHIP DURING CPB IN NEONATES OPERATED ON USING AUTOLOGOUS UMBILICAL CORD BLOOD  
*Kyrylo Chasovskyi, S. Kuzmenko, V. Zhovnir, I. Yemets*  
Ukrainian Children's Cardiac Center, Perfusiology, Anesthesiology, Surgery  
Kyiv, Ukraine
- 11.55-12.00 hrs. Discussion and IAQ
- 12.00-12.10 hrs. **27** ADVANTAGES OF USING DELNIDO CARDIOPLEGIA SOLUTION VERSUS BRETSCHNEIDER/ HTK SOLUTION FOR MYOCARDIAL PROTECTION DURING CONGENITAL HEART SURGERY  
*Kevin Charette CCP, Michael McMullen MD, Lester Permut MD, Kenneth Rudberg MHA, Renee Dickey CCP, Muhammed Nuri MD, Jonathan Chen MD, Caitlin Basset*  
Seattle Children's Hospital  
Seattle, U.S.A.
- 12.10-12.15 hrs. Discussion and IAQ
- 12.15-12.25 hrs. **28** HIGH LEVEL OF INTERLEUKIN-10 PREDICTS PROLONGED ICU LENGTH OF STAY IN NEONATES UNDERWENT ARTERIAL SWITCH OPERATION  
*Kyrylo Chasovskyi, S. Kuzmenko, V. Zhovnir, I. Yemets*  
Ukrainian Children's Cardiac Center, Perfusiology, Anesthesiology, Surgery  
Kyiv, Ukraine
- 12.25-12.30 hrs. Discussion
- 12.30-12.45 hrs. IAQ
- 12.45-14.15 hrs. Lunch break and Exhibition
- 14.15-16.00 hrs. Scientific Session  
Moderators: Yves Fromes, Anne Louise Bellaiche
- 14.15-14.25 hrs. **29** IS THERE A BENEFICIAL EFFECT OF AN OPTIMIZED PERFUSION SYSTEM ON THE OUTCOME AFTER EXTRACORPOREAL CIRCULATION?

*Thomas Dreizler*  
Clinic of Cardiac and Vascular Surgery  
Zürich, Switzerland

- 14.25-14.35 hrs. **30** PERIOPERATIVE MICROCIRCULATORY CHANGES IN PATIENTS UNDERGOING ON-PUMP AND OFF-PUMP CORONARY ARTERY BYPASS GRAFTING

*Zdenek Turek*, Jindrich Samek, Martin Volt, Roman Schmidt  
University Hospital Hradec Kralove, Charles University in Prague, Department of Anesthesia and Intensive Care, Department of Cardiac Surgery  
Hradec Kralove, Czech Republic

- 14.35-14.45 hrs. **31** COMPARISON OF MICROCIRCULATION DURING MECC AND COVENTIONAL ECC WITH COMPUTER CAPILLAROSCOPY IN AORTIC VALVE SURGERY: A COMPARATIVE MULTICENTER STUDY

*Erich Gygax*, T. Averina\*, R. Muratov\*, G. Shamsiev\*, D. Khinchagov\*, H. Jenni, B. Winkler, L. Bockeria\*, T. Carrel  
University Hospital Bern, Clinic for cardiovascular Surgery  
\*Bakoulev Center Moskow, Russia  
Berne, Switzerland

- 14.45-15.00 hrs. Discussion and IAQ

- 15.00-15.10 hrs. **32** VACUUM ASSISTED VENOUS DRAINAGE IN PEDIATRIC AND CONGENITAL MINIMALLY INVASIVE CARDIAC SURGERY: OUR EXPERIENCE AND RESULTS

*Dario Fichera*, ECCP, MS; Nicola Padovani, CCP, MS; Paulo Dal Soglio, CCP, MS; Fabio Zanella, CCP, MS; Vladimiro Vida, MD, PhD; Massimo Padalino, MD, PhD; Guido Di Gregorio, MD, PhD; Giovanni Stellin, MD  
University of Padua, University Hospital of Verona  
Perfusion Department; Pediatric and Congenital Cardiac Surgery Unit; Anesthesia Department  
Corrubio di San Pietro in Cariano VR  
Padua, Italy

- 15.10-15.20 hrs. **33** VACUUM ASSISTED VENOUS DRAINAGE IN INFANTS.

*Anastasia Boltruchenko*, R. Vasunin, I. Kornilov  
Novosibirsk Research Institute of Circulation Pathology (NRICP)  
Department of Anesthesiology  
Novosibirsk, Russian Federation

- 15.20-15.30 hrs. Discussion and IAQ



- 15.30-15.40 hrs. **34** AUTOLOGOUS RETROPRIMING IN PEDIATRIC CARDIAC SURGERY: EFFECTS ON INTRAOPERATIVE BLOOD TRANSFUSION  
*Laura Ressa\**, *Simona Tani\*\**, *Marco Pesce\*\**, *Giuseppe Squillaci\*\**, *Elena Ribera\*\**, *Francesco Grasso\**, *Franco Lerzo\**  
Giannina Gaslini Children's Hospital  
\*Anesthesia Intensive Care Unit Department, \*\*  
Cardiovascular Surgery Department  
Genova, Italy
- 15.40-15.45 hrs. Discussion and IAQ
- 15.45-15.55 hrs. **35** BLOOD CONSERVATION TECHNIQUES IN ADULT CARDIAC SURGERY IN GREAT BRITAIN AND IRELAND, A TEN YEAR FOLLOW UP SURVEY.  
*John Campbell*  
Nottingham University Hospitals Trust, Perfusion  
Nottingham, United Kingdom
- 15.55-16.00 hrs. Discussion
- 16.00 hrs. Closing remarks