

# PROGRAM

## Third Scientific Meeting World Society for Pediatric and Congenital Heart Surgery June 23-26, 2011, Istanbul, Turkey Swissôtel The Bosphorus, Istanbul, Turkey

Local Host:

Sertaç M. Çiçek, *Istanbul, Turkey*

Program Committee:

Chair: Sertaç M. Çiçek, *Istanbul, Turkey*

Zohair Al-Halees, *Riyadh, Saudi Arabia*

Erle Austin, *Louisville, USA*

Carl L. Backer, *Chicago, USA*

Emre Belli, *Paris, France*

John W. Brown, *Indianapolis, USA*

Joseph Dearani, *Rochester, USA*

Roberto Di Donato, *Riyadh, Saudi Arabia*

Tjark Ebels, *Groningen, Netherlands*

Jose Fragata, *Lisbon, Portugal*

J. William Gaynor, *Philadelphia, USA*

John Hewitson, *Cape Town, South Africa*

Jennifer Hirsh, *Ann Arbor, USA*

Victor Hraska, *Sankt Augustine, Germany*

Vladimir Ilyin, *Moscow, Russia*

Krishna S. Iyer, *New Delhi, India*

Jeffrey P. Jacobs, *St. Petersburg, USA*

Marshall L. Jacobs, *Cleveland, USA*

Marcelo B. Jatene, *Sao Paulo, Brazil*

Richard A. Jonas, *Washington, USA*

Hiromi Kurosawa, *Tokyo, Japan*

Christian Kreutzer, *Buenos Aires, Argentina*

Stojan Lazarov, *Sofia, Bulgaria*

Jinfen Liu, *Shanghái, China*

Bohdan Maruszewski, *Warsaw, Poland*

Constantine Mavroudis, *Cleveland, USA*

E. Samuel Ramirez-Marroquin, *Mexico City, Mexico*

Graham R. Nunn, *Brisbane, Australia*

Kisaburo Sakamoto, *Shizuoka, Japan*

Eduardo Sancho, *Campinas, Brazil*

Nestor F. Sandoval, *Bogota, Colombia*  
Shunji Sano, *Okayama, Japan*  
Rajesh Sharma, *New Delhi, India*  
Ayman Shoeb, *Cairo, Egypt*  
Giovanni Stellin, *Padova, Italy*  
Heikki I. Sairanen, *Helsinki, Finland*  
George E. Sarris, *Athens, Greece*  
Christo I. Tchervenkov, *Montreal, Canada*  
Victor Tsang, *London, United Kingdom*  
David S. Winlaw, *Sydney, Australia*

WEDNESDAY, 22 June 2011

10:00-18:00 Registration  
18:00-20:00 Governing Council Meeting

THURSDAY, 23 June 2011

**Postgraduate Course**

**SYMPOSIUM ON FUNCTIONALLY UNIVENTRICULAR HEART: FROM A TO Z**  
**Dedicated to Francis M. Fontan, Bordeaux, France**  
**&**  
**Guillermo O. Kreutzer, Buenos Aires, Argentina**

09:00 – 17:30

Fuji Hall, Swissotel The Bosphorus, Istanbul

**Postgraduate Course Committee**

Chair: Constantine Mavroudis, *Cleveland, USA*  
Zohair Al-Halees, *Riyadh, Saudi Arabia*  
Sertaç M. Çiçek, *Istanbul, Turkey*  
Jeffrey P. Jacobs, *St. Petersburg, USA*  
Marshall L. Jacobs, *Cleveland, USA*  
Marcelo B. Jatene, *Sao Paulo, Brazil*  
Richard A. Jonas, *Washington, USA*  
Christian Kreutzer, *Buenos Aires, Argentina*  
Hiromi Kurosawa, *Tokyo, Japan*  
Jinfen Liu, *Shanghai, China*  
Bohdan Maruszewski, *Warsaw, Poland*  
Giovanni Stellin, *Padova, Italy*  
Christo I. Tchervenkov, *Montreal, Canada*

THURSDAY, 23 June 2011  
Fuji Hall, Swissotel The Bosphorus, Istanbul

**Session 1: 09:00 – 10:30**

Chairmen: Sertaç M. Çiçek, *Istanbul, Turkey*  
Constantine Mavroudis, *Cleveland, USA*  
Christo I. Tchervenkov, *Montreal, Canada*

- 9:00 **Welcome from Local Host**  
Sertaç M. Çiçek, *Istanbul, Turkey*
- 9:05 **Presidential Welcome**  
Christo I. Tchervenkov, *Montreal, Canada*
- 9:10 **Tribute to Francis Fontan & Guillermo Kreutzer**  
Constantine Mavroudis, *Cleveland, USA*
- 9:40 **Nomenclature and Classification of Functionally Univentricular Heart**  
Marshall L. Jacobs, *Cleveland, USA*
- 10:00 **Stella Van Praagh Lecture: Anatomy of Functionally Univentricular Heart**  
James L. Wilkinson, *Melbourne, Australia*
- 10:30 Break

THURSDAY, 23 June 2011  
Fuji Hall, Swissotel The Bosphorus, Istanbul

**Session 2: 11:00 – 12:30**

Chairmen: Jeffrey P. Jacobs, *St. Petersburg, USA*  
Bohdan Maruszewski, *Warsaw, Poland*  
Atif Akçevin, *Istanbul, Turkey*

- 11:00 **Diagnostic Evaluation: Echocardiography and the Role of Catheterization**  
Arda Saygılı, *Istanbul, Turkey*
- 11:15 **Optimal Initial Palliation for Patients with Functionally Univentricular Heart**  
Carl L. Backer, *Chicago, USA*
- 11:30 **Optimal Treatment of the Functionally Univentricular Heart and Systemic Obstruction**  
Viktor Hraska, *Sankt Augustin, Germany*
- 11:45 **Functionally Univentricular Heart with Total Anomalous Pulmonary Venous Connection**  
Thomas L. Spray, *Philadelphia, USA*
- 12:00 **Management of Univentricular Heart with CAVC and/or AV Valve Regurgitation**  
Kisaburo Sakamoto, *Shizuoka, Japan*
- 12:15 **Computational Fluid Dynamics and the Fontan Circulation**  
Kerem Pekkan, *Pittsburgh, USA*
- 12:30 Lunch

THURSDAY, 23 June 2011  
Fuji Hall, Swissotel The Bosphorus, Istanbul

**Session 3: 14:00 – 15:30**

Chairmen: Marcelo B. Jatene, *Sao Paulo, Brazil*  
Viktor Hraska, *Sankt Augustin, Germany*  
Mehmet Salih Bilal, *Istanbul, Turkey*

- 14:00 **Lateral Tunnel versus Extracardiac Fontan**  
Richard A. Jonas, *Washington, USA*
- 14:15 **Extracardiac Fontan with Direct Cavopulmonary Connections**  
Jinfen Liu, *Shanghai, China*
- 14:30 **Fontan for Heterotaxy Syndromes**  
Joseph A. Dearani, *Rochester, USA*
- 14:45 **Anaesthesia for Functionally Univentricular Heart**  
David Vener, *Houston, USA*
- 15:00 **Intensive Care and Perioperative Management**  
Dave Cooper, *St. Petersburg, USA*
- 15:15 **Hematologic Issues in Patients with Functionally Univentricular Heart**  
Rajesh Sharma, *New Delhi, India*
- 15:30 Break

THURSDAY, 23 June 2011  
Fuji Hall, Swissotel The Bosphorus, Istanbul

**Session 4: 16:00 – 17:30**

Chairmen: Zohair Al-Halees, *Riyadh, Saudi Arabia*  
Erle H. Austin, *Louisville, USA*  
Jose Fragata, *Lisbon, Portugal*

- 16:00 **The Rocky Road to and with a Fontan in a Developing World Environment**  
Robin H. Kinsley, *Johannesburg, South Africa*
- 16:15 **Challenges in Management of Patients with Functionally Univentricular Heart in the Middle East**  
Zohair Al-Halees, *Riyadh, Saudi Arabia*
- 16:30 **Challenges in Management of Patients with Functionally Univentricular Heart in South America**  
Christian Kreutzer, *Buenos Aires, Argentina*
- 16:45 **Challenges in Management of Patients with Functionally Univentricular Heart in Turkey**  
Tayyar Sarıoğlu, *Istanbul, Turkey*
- 17:00 **Management of Patients with Univentricular Heart at High Altitude**  
E. Samuel Ramirez-Marroquin, *Mexico City, Mexico*

THURSDAY, 23 June 2011  
Fuji Hall, Swissotel The Bosphorus, Istanbul

**Editorial Board Meeting**  
**World Journal for Pediatric and Congenital Heart Surgery**  
**18:00 – 20:00**

Chair : Marshall L. Jacobs, *Cleveland, USA* / Editor

THURSDAY, 23 June 2011  
Dolmabahce Palace

**Welcome Reception: 20:00 – 21:30 (all attendees)**

FRIDAY, 24 June 2011  
Fuji Hall, Swissotel The Bosphorus, Istanbul

**Global Council on Training and Education Standards: 07:30 – 08:45**  
**(Meeting open to all members)**

Chairmen: Richard A. Jonas, *Washington, USA*  
Tom R. Karl, *Brisbane, Australia*

FRIDAY, 24 June 2011  
Fuji Hall, Swissotel The Bosphorus, Istanbul

**Session 5: 09:00 – 10:30**

Chairmen: Shunji Sano, *Okayama, Japan*  
Carl L. Backer, *Chicago, USA*  
Nestor Sandoval, *Bogota Colombia*

- 9:00 **Interventional Cardiology for Functionally Univentricular Heart**  
Giacomo Pongiglione, *Rome, Italy*
- 9:15 **What is the Role of Hybrid Procedures for the Functionally Univentricular Heart?**  
Christian Pizarro, *Wilmington, USA*
- 9:30 **Arrhythmias following the Fontan Operation**  
Barbara J. Deal, *Chicago, USA*
- 9:45 **Fontan Revision**  
Constantine Mavroudis, *Cleveland, USA*
- 10:00 **The Role of Transplantation and Other Support Techniques for the Failing Univentricular Heart**  
James K. Kirklin, *Birmingham, USA*
- 10:30 Break

FRIDAY, 24 June 2011  
Fuji Hall, Swissotel The Bosphorus, Istanbul

**SPECIAL SESSION**  
**Session 6: 11:00 – 12:45**

Chairmen: Richard A. Jonas, *Washington, USA*  
Christo I. Tchervenkov, *Montreal, Canada*  
Sertaç M. Çiçek, *Istanbul, Turkey*

11:00 **O1**

**LONG-TERM PROGNOSIS OF DOUBLE-SWITCH OPERATION FOR  
CONGENITALLY CORRECTED TRANSPOSITION OF THE GREAT ARTERIES**

*T. Hiramatsu*<sup>1</sup>, G. Matsumura<sup>1</sup>, T. Konuma<sup>1</sup>, K. Yamazaki<sup>1</sup>, T. Nakanishi<sup>2</sup>  
*Tokyo Women's Medical University Cardiac Surgery Tokyo-Japan*<sup>1</sup> *Tokyo Women's  
Medical University Pediatric Cardiology Tokyo-Japan*<sup>2</sup>

11:15 **O2**

**REPAIR OF TETRALOGY OF FALLOT WITH ABNORMAL CORONARY ARTERY:  
SURGICAL STRATEGIES AND PROGNOSTIC FACTORS**

*D. Kalfa*<sup>1</sup>, M. Ly<sup>1</sup>, R. Roussin<sup>1</sup>, E. Lebret<sup>1</sup>, A. Capderou<sup>1</sup>, A. Serraf<sup>1</sup>, E. Belli<sup>1</sup>  
*Marie Lannelongue Hospital department of Pediatric Cardiac Surgery Paris-France*<sup>1</sup>

11:30 **Farewell and Introduction of New President**

Christo I. Tchervenkov, *Montreal, Canada*

11:45 **Presidential Address: New President**

***Pediatric Cardiac Surgeons: Who are we and what we are seeking for?***  
Giovanni Stellin, *Padova, Italy*

12:15 **Introduction of Honoured Guest Speaker**

Jeffrey P. Jacobs, *St. Petersburg, USA*

12:20 **Aldo R. Castaneda Lecture**

***A global perspective about the relationship between government, business and  
medicine***

Martin J. Elliott, *London, United Kingdom*

12:45 Lunch

FRIDAY, 24 June 2011  
Fuji Hall, Swissotel The Bosphorus, Istanbul

**Session 7: 14:00 – 15:30**

Chairmen: E. Samuel Ramirez-Marroquin, *Mexico City, Mexico*  
Ayman Shoeb, *Cairo, Egypt*  
Emin Tireli, *Istanbul, Turkey*

14:00 **Ventricular Septation for Single Ventricle**

Hiromi Kurosawa, *Tokyo, Japan*

14:15 **Is a “good” Fontan Operation Better than a “Fair” Biventricular Repair?**

Hal Walters, *Detroit, USA*

- 14:30 **Functionally Univentricular Heart: Lessons Learned from the STS Database**  
Jeffrey P. Jacobs, *St. Petersburg, USA*
- 14:45 **Functionally Univentricular Heart: Lessons Learned from the EACTS Database**  
Bohdan Maruszewski, *Warsaw, Poland*
- 15:00 **Long-term Complications following the Fontan Operation**  
Marshall L. Jacobs, *Cleveland, USA*
- 15:15 **Long term Neurodevelopmental Issues**  
J. William Gaynor, *Philadelphia, USA*
- 15:30 Break

FRIDAY, 24 June 2011  
Fuji Hall, Swissotel The Bosphorus, Istanbul

**ANNUAL BUSINESS MEETING (*World Society Members only*)**  
**Session 8: 16:00 – 18:00**

Chairmen: Christo I. Tchervenkov, *Montreal, Canada*  
Jeffrey P. Jacobs, *St. Petersburg, USA*  
Giovanni Stellin, *Padova, Italy*

FRIDAY, 24 June 2011

**President's Dinner Reception: 19:00 – 22:30**  
**(*Faculty, Editorial Board, Governing Council and by invitation*)**

SATURDAY, 25 June 2011  
Fuji Hall, Swissotel The Bosphorus, Istanbul

**Global Council on Pediatric and Congenital Heart Surgery Services: 07:30 – 08:45**  
**(Meeting open to all members)**

Chairmen: Joseph A. Dearani, *Rochester, USA*  
Giovanni Stellin, *Padova, Italy*

## PAPER SESSIONS

SATURDAY, 25 June 2011  
Fuji Hall, Swissotel The Bosphorus, Istanbul

**Session 9: 09:00 – 10:30**

Chairmen: Marshall L. Jacobs, *Cleveland, USA*  
Emre Belli, *Paris, France*  
Rahmi Zeybek, *Istanbul, Turkey*

9:00 **O3**

**MODIFIED EXTRACARDIAC TOTAL CAVOPULMONARY CONNECTION WITHOUT FENESTRATION: SINGLE CENTRE REPORT ON 134 PATIENTS**  
*F. Bakhtiary*<sup>1</sup>, J. Hamsch<sup>2</sup>, F. Mohr<sup>1</sup>, M. Kostelka<sup>1</sup>

- 9:15 **O4**  
**INTRA-EXTRACARDIAC FENESTRATED MODIFICATION LEADS TO LOWER INCIDENCE OF ARRHYTHMIAS AFTER THE FONTAN OPERATION**  
C. Yerebakan <sup>1</sup>, P. Sinha <sup>2</sup>, D. Zurakowski <sup>3</sup>, D. He <sup>2</sup>, J. Moak <sup>4</sup>, V. Freedenberg <sup>4</sup>, R. Jonas <sup>2</sup>  
*Children's National Medical Center, Cardiovascular Surgery Washington, DC-United States* <sup>1</sup> *Children's National Medical Center Cardiovascular Surgery Washington, DC-United States* <sup>2</sup> *Children's Hospital Boston, Harvard Medical School Biostatistics & Surgery Boston, MA-United States* <sup>3</sup> *Children's National Medical Center Cardiology Washington, DC-United States* <sup>4</sup>
- 9:30 **O5**  
**"LARGE FENESTRATION": AN ALTERNATIVE FOR PATIENTS UNDERGOING FONTAN OPERATION AT HIGH ALTITUDE, 8660 FEET ABOVE SEA LEVEL**  
N. Sandoval <sup>1</sup>, C. Obando <sup>1</sup>, R. Bresciani <sup>1</sup>, V. Romero <sup>1</sup>, O. Sanchez <sup>1</sup>, M. Carreño <sup>1</sup>  
*Fundacion Cardioinfantil Department Pediatric Cardiac Surgery Bogota-Colombia* <sup>1</sup>
- 9:45 **O6**  
**UP TO 14 YEAR RESULTS OF FONTAN PROCEDURE IN A SINGLE CENTER**  
C. Koch <sup>1</sup>, B. Opgen-Rhein <sup>2</sup>, U. Elgeti <sup>1</sup>, W. Konertz <sup>1</sup>  
*Charité Cardiovascular Surgery Berlin-Germany* <sup>1</sup> *Charité Pediatric Cardiology Berlin-Germany* <sup>2</sup>
- 10:00 **O7**  
**SURGICAL RESULTS FOR FUNCTIONALLY UNIVENTRICULAR HEART WITH TOTAL ANOMALOUS PULMONARY VENOUS CONNECTION OVER A 25-YEAR PERIOD**  
Y. Nakayama-Yuki <sup>1</sup>, T. Hiramatsu-Takeshi <sup>1</sup>, Y. Iwata-Yusuke <sup>1</sup>, G. Matsumura-Goki <sup>1</sup>, T. Konuma-Takeshi <sup>1</sup>, T. Nakanishi-Toshio <sup>2</sup>, K. Yamazaki-Kenji <sup>1</sup>  
*Tokyo Women's Medical University Cardiovascular surgery Shinjuku-Japan* <sup>1</sup> *Tokyo Women's Medical University pediatric cardiology Tokyo-Japan* <sup>2</sup>
- 10:15 **O8**  
**UNFAVORABLE GROWTH OF THE PULMONARY VASCULATURE WARRANTS EARLY PROGRESSION TO COMPREHENSIVE STAGE-2 OPERATION FOLLOWING HYBRID STAGE-1 PALLIATION FOR UNIVENTRICULAR PHYSIOLOGIES WITH SYSTEMIC OBSTRUCTION**  
L. Kiraly <sup>1</sup>, S. Shipton <sup>2</sup>, C. Tamas <sup>1</sup>, J. Du Plessis <sup>2</sup>  
*Sheikh Khalifa Medical City/Cleveland Clinic Pediatric Cardiac Surgery Abu Dhabi-United Arab Emirates* <sup>1</sup> *Sheikh Khalifa Medical City/Cleveland Clinic Pediatric Cardiology Abu Dhabi-United Arab Emirates* <sup>2</sup>
- 10:30 Break



**Session 10: 11:00 – 12:30**

Chairmen: Tjark Ebels, Groningen, Netherlands  
Antonio Corno, Riyadh, Saudi Arabia  
Ali Kutsal, Ankara, Turkey

11:00 **O9**

**IS THE ROSS PROCEDURE A SUITABLE CHOICE FOR AORTIC VALVE REPLACEMENT IN CHILDREN WITH RHEUMATIC AORTIC VALVE DISEASE?**

B. Alsoufi<sup>1</sup>, C. Manlhiot<sup>2</sup>, B. McCrindle<sup>2</sup>, B. Fadel<sup>1</sup>, Z. Al-Halees<sup>1</sup>  
*King Faisal Specialist Hospital and Research Center king Faisal Heart Institute  
Riyadh-Saudi Arabia*<sup>1</sup>  
*Hospital for Sick Children Labatt Family Heart Center Toronto-Canada*<sup>2</sup>

11:15 **O10**

**IS AORTIC VALVE-SPARING ROOT REPLACEMENT EFFECTIVE IN CHILDREN WITH CONGENITAL HEART DISEASE?**

C. Badiu<sup>1</sup>, D. Mazzitelli<sup>1</sup>, B. Voss<sup>1</sup>, J. Hörer<sup>1</sup>, Z. Prodan<sup>1</sup>, M. Vogt<sup>2</sup>, R. Lange<sup>1</sup>, C. Schreiber<sup>1</sup>  
*German Heart Centre Munich Cardiovascular surgery Munich-Germany*<sup>1</sup> *German Heart Centre Munich Paediatric cardiology and Congenital Cardiac Defects Munich-Germany*<sup>2</sup>

11:30 **O11**

**LONG TERM OUTCOMES OF ISOLATED MITRAL VALVE SURGERY FOR RHEUMATIC HEART DISEASE IN THE YOUNG**

B. Remenyi<sup>1</sup>, R. Webb<sup>2</sup>, P. Russell<sup>3</sup>, T. Gentles<sup>1</sup>, K. Finucane<sup>4</sup>, M. Lee<sup>5</sup>, N. Wilson<sup>1</sup>  
*Starship Hospital Green Lane Paediatric Cardiology Auckland -New Zealand*<sup>1</sup> *Starship Hospital Paediatric Infectious Diseases Auckland-*<sup>2</sup> *University of Auckland Auckland-*<sup>3</sup> *Starship Hospital Green Lane Cardiac Surgery Auckland-*<sup>4</sup> *Auckland City Hospital Green Lane Dept Auckland-New Zealand*<sup>5</sup>

11:45 **O12**

**LEFT VENTRICULAR AND MITRAL VALVE FUNCTION LONG AFTER REPAIR OF ANOMALOUS CORONARY ARTERY FROM THE PULMONARY ARTERY**

S. Georgiev<sup>1</sup>, S. Lazarov<sup>2</sup>, I. Mitev<sup>2</sup>, A. Latcheva<sup>1</sup>, I. Velkovski<sup>1</sup>, P. Mitev<sup>2</sup>  
*National heart hospital Clinic for pediatrics and pediatric cardiology Sofia-Bulgaria*<sup>1</sup> *National heart hospital Clinic for surgery of congenital heart defects Sofia-Bulgaria*<sup>2</sup>

12:00 **O13**

**MEDIUM-LONG TERM OUTCOMES IN ENLARGED VENTRICULAR SEPTAL DEFECT**

F. Serrano<sup>1</sup>, A. Castello<sup>1</sup>, J. Orrit<sup>2</sup>, J. Mayol<sup>2</sup>, C. Bartual<sup>3</sup>, J. Caffarena<sup>1</sup>  
*LA FE Hospital Pediatric Cardiac Surgery Valencia-Spain*<sup>1</sup> *Sant Joan de Deu Hospital Pediatric Cardiac Surgery Barcelona-Spain*<sup>2</sup> *LA FE Hospital Biologist Valencia-Spain*<sup>3</sup>

12:15 **O14**  
**ANALYSIS OF SUBAORTIC MEMBRANE AND AORTO-SEPTAL ANGLE: AN  
ECOCARDIOGRAPHIC ASSESSMENT**  
F. Garcia <sup>1</sup>, J. Leon-Wyss <sup>1</sup>, L. Barboza <sup>1</sup>, J. Barnoya <sup>1</sup>, A. Castañeda <sup>1</sup>  
*UNICAR Department of Pediatric Cardiac Surgery Guatemala City-Guatemala* <sup>1</sup>

12:30 Lunch

SATURDAY, 25 June 2011  
Fuji Hall, Swissotel The Bosphorus, Istanbul

**Session 11: 14:00 – 15:30**

Chairmen: Joseph Dearani, *Rochester, USA*  
Yong Jin Kim, *Seoul, Korea*  
Roberto M. Di Donato, *Riyadh, Saudi Arabia*

14:00 **O15**  
**SURGICAL DECISION-MAKING IN NEONATAL EBSTEIN'S ANOMALY – AN  
ALGORITHMIC APPROACH BASED ON 44 CONSECUTIVE NEONATES**  
S. Goldberg <sup>1</sup>, J. Ballweg <sup>2</sup>, U. Boston <sup>1</sup>, C. Knott-Craig <sup>1</sup>  
*University of Tennessee Health Science Center/Le Bonheur Children's Hospital  
Pediatric Cardiothoracic Surgery Memphis-United States* <sup>1</sup> *University of Tennessee  
Health Science Center/Le Bonheur Children's Hospital Pediatric Cardiology Memphis-  
United States* <sup>2</sup>

14:15 **O16**  
**THE PERFORMANCE OF CRYOPRESERVED HOMOGRAFT FOR RIGHT  
VENTRICULAR OUTFLOW TRACT RECONSTRUCTION IN INFANTS YOUNGER  
THAN ONE YEAR**  
D. Kalfa <sup>1</sup>, A. Loundou <sup>2</sup>, Y. Nouaille de Gorce <sup>3</sup>, V. Fouilloux <sup>1</sup>, A. Fraisse <sup>4</sup>, D. Metras  
<sup>1</sup>, L. Macé <sup>1</sup>, B. Kreitmann <sup>1</sup>  
*La Timone Children's hospital Department of Cardiac Surgery Paris-France* <sup>1</sup>  
*Université de la Méditerranée Department of Statistics Marseille-France* <sup>2</sup> *EFS Tissue  
Bank Marseille-France* <sup>3</sup> *La Timone Children's hospital Department of Pediatric  
Cardiology Marseille-France* <sup>4</sup>

14:30 **O17**  
**STAGED CORRECTION OF PULMONARY ATRESIA, VENTRICULAR SEPTAL  
DEFECT AND SYSTEMIC-PULMONARY COLLATERAL ARTERIES**  
P. van de Woestijne <sup>1</sup>, P. de Jong <sup>1</sup>, F. du Plessis <sup>2</sup>, M. Witsenburg <sup>3</sup>, A. Bogers <sup>1</sup>  
*Erasmus MC Cardio-thoracic Surgery Rotterdam-Netherlands* <sup>1</sup> *Erasmus MC Pediatric  
Cardiology Rotterdam-Netherlands* <sup>2</sup> *Erasmus MC Congenital and pediatric Cardiology  
Rotterdam-Netherlands* <sup>3</sup>

14:45 **O18**  
**TRANSATRIAL-TRANSPULMONARY REPAIR OF TETRALOGY OF FALLOT: A 13  
YEAR EXPERIENCE**  
P. Sfyridis <sup>1</sup>, J. Papagiannis <sup>1</sup>, G. Kirvassilis <sup>1</sup>, P. Zavaropoulos <sup>1</sup>, D. Avramidis <sup>1</sup>, G.  
Sarris <sup>1</sup>  
*Mitera Children's and Hygeia Hospitals Pediatric and Congenital Heart Surgery  
Marousi-Greece*

- 15:00 **O19**  
**BICUSPID PULMONARY VALVE IMPLANTATION USING  
 POLYTETRAFLUOROETHYLENE MEMBRANE: EARLY RESULTS AND  
 ASSESSMENT OF THE VALVE FUNCTION BY MAGNETIC RESONANCE  
 IMAGING**  
*C. Lee<sup>1</sup>, C. Lee<sup>1</sup>, J. Kwak<sup>1</sup>, C. Park<sup>1</sup>, J. Song<sup>2</sup>, E. Choi<sup>2</sup>, S. Lee<sup>2</sup>, Y. Kim<sup>3</sup>*  
*Sejong General Hospital Department of Thoracic and Cardiovascular Surgery*  
*Bucheon-Korea, South<sup>1</sup> Sejong General Hospital Department of Pediatric Cardiology*  
*Bucheon-Korea, South<sup>2</sup> Sejong General Hospital Department of Radiology Bucheon-*  
*Korea, South<sup>3</sup>*
- 15:15 **O20**  
**SURGICAL CRYOABLATION OF RVOT FOR VENTRICULAR TACHYCARDIA IN  
 PATIENTS WITH CHRONIC PULMONARY REGURGITATION UNDERGIONG  
 PULMONARY VALVE REPLACEMENT**  
*T. Khan<sup>1</sup>, N. Weerasena<sup>1</sup>, J. Kadlec<sup>1</sup>, K. English<sup>2</sup>, M. Blackburn<sup>2</sup>*  
*Leeds General Infirmary Cardiac Surgery Leeds-United Kingdom<sup>1</sup> Leeds General*  
*Infirmary Paediatric Cardiology Leeds-United Kingdom<sup>2</sup>*
- 15:30 Break

SATURDAY, 25 June 2011  
 Fuji Hall, Swissotel The Bosphorus, Istanbul

**PAPER SESSIONS**  
**Session 12: 16:00 – 17:30**

Chairmen: John Hewitson, *Cape Town, South Africa*  
 John W. Brown, *Indianapolis, USA*  
 Alp Alayunt, *Izmir, Turkey*

- 16:00 **O21**  
**OWN MODIFICATION OF NORWOOD-SANO PROCEDURE FOR HLHS SURGERY  
 IN NEWBORNS WITH SMALL ASCENDING AORTA**  
*M. Moll<sup>1</sup>, M. Kopala<sup>1</sup>, A. Mazurek-Kula<sup>2</sup>, W. Pietrzykowski<sup>1</sup>, K. Michalak<sup>2</sup>, J. Moll<sup>2</sup>,*  
*J. Moll<sup>1</sup>*  
*Polish Mother's Memorial Hospital Cardiac Surgery Lodz-Poland<sup>1</sup> Polish Mother's*  
*Memorial Hospital Cardiology Lodz-Poland<sup>2</sup>*
- 16:15 **O22**  
**MINIMALLY INVASIVE SURGICAL OPTIONS IN PEDIATRIC HEART SURGERY**  
*V. Vida<sup>1</sup>, M. Padalino<sup>1</sup>, O. Milanese<sup>2</sup>, A. Bhattarai<sup>1</sup>, G. Stellin<sup>1</sup>*  
*University of Padua Pediatric and Congenital Cardiac Surgery Unit Padua-Italy<sup>1</sup>*  
*University of Padua Pediatric Cardiology Unit Padua-Italy<sup>2</sup>*
- 16:30 **O23**  
**OUTCOMES OF DEFINITIVE SURGICAL REPAIR FOR CONGENITALLY  
 CORRECTED TRANSPOSITION OF THE GREAT ARTERIES: ANALYSIS OF  
 SINGLE CENTER'S EXPERIENCE**  
*K. Hsu<sup>1</sup>, S. Huang<sup>1</sup>, Y. Chen<sup>1</sup>, I. Chui<sup>1</sup>, C. Chang<sup>1</sup>*  
*National Taiwan University Hospital Department of Cardiovascular Surgery Taipei-*  
*Taiwan<sup>1</sup>*

- 16:45      **O24**  
**OUTCOMES WITH END-TO-SIDE DESCENDING-TO-ASCENDING AORTIC ARCH RECONSTRUCTION IN NEONATES AND INFANTS**  
K. Guleserian<sup>1</sup>, M. Sharma<sup>1</sup>, R. Ginther<sup>1</sup>, J. Forbess<sup>1</sup>  
*Children Pediatric Cardiothoracic Surgery Dallas-United States*<sup>1</sup>
- 17:00      **O25**  
**NEW STRATEGY ONE-STAGE REPAIR FOR TRANSPOSITION OF THE GREAT ARTERIES AND TAUSSIG-BING ANOMALY WITH AORTIC ARCH ABNORMALLY IN INFANTS**  
Q. Yan<sup>1</sup>, Z. Xu<sup>1</sup>, J. Liu<sup>1</sup>, X. Du<sup>1</sup>  
*Shanghai Children's Medical Center, Medical College, Shanghai Jiao tong University Cardiovascular & Thoracic Surgery Shanghai-China*<sup>1</sup>
- 17:15      **O26**  
**RANDOMIZED COMPARISON BETWEEN MILD AND MODERATE HYPOTHERMIC CARDIOPULMONARY BYPASS FOR NEONATAL ARTERIAL SWITCH OPERATION**  
N. Aydemir<sup>1</sup>, B. Harmandar<sup>1</sup>, A. Karaci<sup>1</sup>, A. Erdem<sup>2</sup>, N. Yurtseven<sup>3</sup>, A. Sasmazel<sup>1</sup>, I. Yekeler<sup>1</sup>  
*Dr.Siyami Ersek Thoracic and Cardiovascular Training and Research Hospital Pediatric Cardiac Surgery ISTANBUL-Turkey*<sup>1</sup> *Dr.Siyami Ersek Thoracic and Cardiovascular Training and Research Hospital Pediatric Cardiology Istanbul-Turkey*<sup>2</sup> *Dr.Siyami Ersek Thoracic and Cardiovascular Training and Research Hospital Anesthesiology and Reanimation Istanbul-Turkey*<sup>3</sup>

SATURDAY, 25 June 2011  
Fuji Hall, Swissotel The Bosphorus, Istanbul

**Gala Dinner: 20:00 – 23:30 (all attendees)**

SUNDAY, 26 June 2011  
Bosphorus Bridge, Istanbul

**SYMBOLIC RUN BETWEEN EUROPE AND ASIA: 06:30 – 08:00**

SUNDAY, 26 June 2011  
Fuji Hall, Swissotel The Bosphorus, Istanbul

**Session 13: 09:00 – 11:00**

Chairmen:      Giovanni Stellin, *Padova, Italy*  
Juan V. Comas, *Madrid, Spain*  
Frank L. Hanley, *Stanford, USA*  
Vladimir N. Ilyin, *Moscow, Russia*

- 9:00      **O27**  
**COMPARATIVE STUDY BETWEEN CONVENTIONAL EXTUBATION AND FAST TRACK AFTER SURGICAL REPAIR OF 200 CASES OF TETRALOGY OF FALLOT**  
J. Orrit<sup>1</sup>, J. Mayol<sup>1</sup>, M. López<sup>2</sup>, J. Carretero<sup>3</sup>, A. Garcés<sup>2</sup>, R. Khoury<sup>2</sup>, F. Prada<sup>3</sup>, J. Caffarena<sup>1</sup>

9:15

**O28**

**COULD WE BE A SAFER TEAM IN PEDIATRIC CARDIAC SURGERY?**

L. Hakami<sup>1</sup>, E. Bacha<sup>2</sup>

*Pediatric Cardiac Surgery University Medical Center of the Johannes Gutenberg University Mainz-Germany*<sup>1</sup> *Congenital and Pediatric Cardiac Surgery Columbia university medical Center/ Morgan Stanley Children New York-United States*<sup>2</sup>

9:30

**O29**

**CONTROLLING OXYGENATION DURING INITIATION OF CARDIOPULMONARY BYPASS: CAN IT IMPROVE IMMEDIATE POSTOPERATIVE OUTCOMES IN CYANOTIC CHILDREN UNDERGOING CARDIAC SURGERY? A PROSPECTIVE RANDOMISED STUDY**

B. Babu<sup>1</sup>, S. Bhat<sup>2</sup>, P. Honnur Puttaswamy<sup>2</sup>, G. Kamalapurkar<sup>2</sup>, J. Honnekare Venkataiah<sup>2</sup>, L. Gunaseelan Kanakamma<sup>3</sup>, S. Suresh<sup>2</sup>, L. Bhuvanahalli Karigowda<sup>4</sup>  
*Apollo Hospitals Cardiothoracic Surgery Bangalore-India*<sup>1</sup> *Sri Jayadeva Institute of Cardiovascular Sciences and Research Cardiothoracic Surgery Bangalore-India*<sup>2</sup> *Karakonam Medical College Community Medicine and Biostatistics Trivandrum-India*<sup>3</sup> *Sri Jayadeva Institute of Cardiovascular Sciences and Research Dept of Perfusion Bangalore-India*<sup>4</sup>

9:45

**O30**

**PULSATILE VENOUS WAVEFORM QUALITY IN FONTAN CIRCULATION - CLINICAL IMPLICATIONS, VENOUS ASSIST OPTIONS AND THE FUTURE**

E. Kocyildirim<sup>1</sup>, O. Dur<sup>2</sup>, O. Soran<sup>3</sup>, E. Tuzun<sup>4</sup>, P. Wearden<sup>1</sup>, V. Morell<sup>1</sup>, K. Pekkan<sup>2</sup>

*University of Pittsburgh, Children Department Cardiothoracic Surgery Pittsburgh-United States*<sup>1</sup> *Carnegie Mellon University Biomedical Engineering Department Pittsburgh-United States*<sup>2</sup> *Cardiovascular Institute University of Pittsburgh Department of Cardiology Pittsburgh-United States*<sup>3</sup> *Texas A&M Institute of Preclinical Studies TIPS College Station-United States*<sup>4</sup>

10:00

**O31**

**ECHOCARDIOGRAPHIC MONITORING: FROM HYBRID PROCEDURE TO BIVENTRICULAR REPAIR**

L. Bokeria<sup>1</sup>, B. Alekryan<sup>2</sup>, M. Pursanov<sup>2</sup>, D. Berishvili<sup>1</sup>, I. Baryshnikova<sup>3</sup>

*Bakoulev Scientific Centre for Cardiovascular Surgery Congenital surgery Moskow-Russia*<sup>1</sup> *Bakoulev Scientific Centre for Cardiovascular Surgery Endovascular surgery Moskow-Russia*<sup>2</sup> *Bakoulev Scientific Centre for Cardiovascular Surgery Ultrasound department Moskow-Russia*<sup>3</sup>

10:15

**O32**

**INITIAL CHRONIC ANIMAL EXPERIMENT WITH THE INCOR PEDIATRIC VAD**

A. Riso<sup>1</sup>, M. Biscegli Jatene<sup>1</sup>, C. Tanamati<sup>1</sup>, L. Fermnado Caneo<sup>1</sup>, J. Penha<sup>1</sup>, I. Cestari<sup>2</sup>, N. Groppo Stolf<sup>3</sup>

*Heart Institute (InCor) University of Sao Paulo Medical School Pediatric Cardiac Surgery Unit Sao Paulo-Brazil*<sup>1</sup> *Heart Institute (InCor) University of Sao Paulo Medical School Biongingeering Department Sao Paulo-Brazil*<sup>2</sup> *Heart Institute (InCor) University of Sao Paulo Medical School Cardiac Surgery Sao Paulo-Brazil*<sup>3</sup>

10:30

**O33**

**ELECTIVE MAINTENANCE OF PATENT FORAMEN OVALE AUGMENTS POST  
OPERATIVE RECOVERY IN CORRECTION OF TOTAL ANOMALOUS  
PULMONARY VENOUS CONNECTION IN NEONATES AND EARLY INFANTS**

*A. Dharmapuram*<sup>1</sup>, G. Mannam<sup>2</sup>, N. Rao<sup>3</sup>, S. Vyas<sup>3</sup>, R. Shastri<sup>4</sup>, S. Krishnamurthy<sup>2</sup>  
*Star Hospitals Pediatric Cardiac Surgery Hyderabad-India*<sup>1</sup> *Star Hospitals  
Cardiothoracic Surgery Hyderabad-India*<sup>2</sup> *Star Hospitals Pediatric Cardiology  
Hyderabad-India*<sup>3</sup> *Star Hospitals Anesthesiology Hyderabad-India*<sup>4</sup>

10:45

**O34**

**EXTRA-CORPOREAL MEMBRANE OXYGENATION (ECMO) FOR CHILDREN  
AFTER CARDIAC SURGERY**

*Y. Ide*<sup>1</sup>, Y. Fujimoto<sup>1</sup>, N. Ota<sup>1</sup>, M. Murata<sup>1</sup>, Y. Tosaka<sup>1</sup>, A. Sugimoto<sup>1</sup>, M. Osaki<sup>2</sup>, K.  
Sakamoto<sup>1</sup>  
*Mt. Fuji Shizuoka Children's Hospital Cardiovascular Surgery Shizuoka City-Japan*<sup>1</sup>  
*Mt. Fuji Shizuoka Children's Hospital Intensive Care Unit Shizuoka City-*<sup>2</sup>

11:00

Break

SUNDAY, 26 June 2011

Fuji Hall, Swissotel The Bosphorus, Istanbul

**PEDIATRIC MECHANICAL CARDIOPULMONARY SUPPORT: MINI-SYMPOSIUM**

**Session 14: 11:30 – 14:00**

Chairmen: Akif Ündar, *Hershey, USA*  
Tufan Paker, *Istanbul, Turkey*  
Sertac M. Cicek, *Istanbul, Turkey*

11:30 **Inflammatory and Hemostatic Response to Cardiopulmonary Bypass in Pediatric  
Population: Feasibility of Serological Testing of Multiple Biomarkers.**  
*Mehmet Ağırbaşı, Istanbul, Turkey*

12:00 **Evaluation of Perfusion Modes on Vital Organ Recovery and Thyroid Hormone  
Homeostasis in Pediatric Patients Undergoing Cardiopulmonary Bypass**  
*Atif Akçevin, Istanbul, Turkey*

12:30 **Translational Research on Pediatric/Neonatal ECLS Systems: 2011 Update**  
*Akif Ündar, Hershey, USA*

13:00 **The Berlin Heart Experience in Neonates and Infants**  
*Eugen Sandica, Bad Oeynhausen, Germany*

13:30 **Novel Techniques for Implantation of the Berlin Heart EXCOR Pediatric Ventricular  
Assist Device and the Newcastle Experience**  
*Massimo Griselli, Newcastle upon Tyne, UK*

14:00 MEETING ADJURNED

# POSTERS

P1

## OUTCOME AND INCIDENCE OF REINTERVENTIONS AFTER PRIMARY SURGICAL REPAIR OF TETRALOGY OF FALLOT: A SINGLE CENTER EXPERIENCE

F. Bakhtiary<sup>1</sup>, F. Mohr<sup>1</sup>, M. Kostelka<sup>1</sup>

*Heart Center Leipzig Cardiac Surgery Leipzig-Germany*<sup>1</sup>

P2

## LONG-TERM RESULTS OF THE MECHANICAL VALVE REPLACEMENTS IN CONGENITAL HEART VALVE DISEASES

Y. Kume<sup>1</sup>, T. Hiramatsu<sup>1</sup>, G. Matsumura<sup>1</sup>, T. Konuma<sup>1</sup>, M. Tateishi<sup>1</sup>, M. Okura<sup>1</sup>, K. Yamazaki<sup>1</sup>, T. Nakanishi<sup>2</sup>

*Tokyo Women's Medical University Cardiovascular Surgery Tokyo-Japan*<sup>1</sup> *Tokyo Women's Medical University Pediatric cardiology Tokyo-Japan*<sup>2</sup>

P3

## PATIENT AGE INFLUENCES NEOAORTIC ROOT DIMENSIONS AND AORTIC REGURGITATION FOLLOWING THE ROSS OPERATION IN CHILDREN

J. Hörer<sup>1</sup>, J. Kasnar-Samprec<sup>1</sup>, U. Stierle<sup>2</sup>, A. Bogers<sup>3</sup>, W. Hemmer<sup>4</sup>, R. Hetzer<sup>2</sup>, H. Sievers<sup>5</sup>, R. Lange<sup>8</sup>

*German Heart Center Munich Department of cardiothoracic surgery Munich-Germany*<sup>1</sup> *University Clinic Schleswig-Holstein Luebeck-Germany*<sup>2</sup> *Erasmus University Medical Center Rotterdam-Netherlands*<sup>3</sup> *GermanHeart Center Berlin Berlin-Germany*<sup>4</sup> *German Heart Center Munich Munich-Germany*<sup>5</sup>

P4

## ASSESSMENT OF RIGHT VENTRICULAR (RV) SYSTOLIC FUNCTION IN TETRALOGY OF FALLOT PATIENTS: TRICUSPID ANNULAR PLANE SYSTOLIC EXCURSION (TAPSE) VERSUS MRI

E. Beran<sup>1</sup>, M. Koestenberger<sup>2</sup>, B. Nagel<sup>2</sup>, S. Oezkan<sup>1</sup>, A. Gamillschegg<sup>2</sup>, K. Tscheliessnigg<sup>1</sup>

*Medical University Graz Cardiac Surgery Graz-Austria*<sup>1</sup> *Medical University Graz Pediatric Cardiology Graz-Austria*<sup>2</sup>

P5

## PRIMARY CARDIAC TUMORS IN PEDIATRIC AGE: A SINGLE CENTER COMPREHENSIVE CLINICAL REVIEW

O. Milanesi<sup>1</sup>, V. Favero<sup>1</sup>, M. Padalino<sup>2</sup>, V. Vida<sup>2</sup>, A. Cerutti<sup>1</sup>, R. Biffanti<sup>1</sup>, G. Stellin<sup>2</sup>

*University of Padova Medical School Division of Pediatric Cardiology, Department of Pediatrics, Padua-Italy*<sup>1</sup> *University of Padova Medical School Pediatric and Congenital Cardiac Surgery Unit, Department of Cardiac, Thoracic and Vascular Sciences Padua-*<sup>2</sup>

P6

## REPAIR OF CONGENITAL MITRAL VALVE DISEASE IN INFANTS AND CHILDREN YOUNGER THAN 6 YEARS

M. Lin<sup>1</sup>, C. Chang<sup>1</sup>

*National Taiwan University Hospital Cardiovascular surgery Taipei-Taiwan*<sup>1</sup>

P7

## UNIFOCALIZATION OF MAJOR AORTOPULMONARY COLLATERALS IN PATIENTS WITH RIGHT ATRIAL ISOMERISM: IMPROVING SURGICAL RESULT

N. Ota<sup>1</sup>, Y. Fujimoto<sup>1</sup>, M. Murata<sup>1</sup>, Y. Tosaka<sup>1</sup>, Y. Ide<sup>1</sup>, A. Sugimoto<sup>1</sup>, K. Sakamoto<sup>1</sup>

*Mt. Fuji Shizuoka Children Cardiovascular Surgery Shizuoka-Japan*<sup>1</sup>

P8

**INCIDENCE AND OUTCOME OF EXTRA CORPOREAL MEMBRANE OXYGENATION (ECMO) INITIATED IN OPERATING ROOM AFTER PEDIATRIC CARDIAC SURGERY**

R. Sharma<sup>1</sup>, R. Thiagarajan<sup>2</sup>, F. Fynn-Thompson<sup>3</sup>, K. Odegard<sup>1</sup>  
*Children's Hospital Boston Anesthesiology Boston-United States*<sup>1</sup> *Children's Hospital Boston Critical Care Boston-United States*<sup>2</sup> *Children's Hospital Boston Cardiac Surgery Boston-United States*<sup>3</sup>

P9

**SUPERIOR PULSATILE HEMODYNAMICS OF INTRA-ATRIAL CONDUIT FONTAN COMPARED TO LATERAL TUNNEL FONTAN**

H. Hong<sup>1</sup>, O. Dur<sup>2</sup>, H. Zhang<sup>1</sup>, K. Pekkan<sup>2</sup>, J. Liu<sup>1</sup>  
*Shanghai Children's Medical Center The Cardiothoracic Surgery Department Shanghai-China*<sup>1</sup> *Carnegie Mellon University Biomedical Engineering Department Pittsburgh-United States*<sup>2</sup>

P10

**FACTOR VIIA; EFFICACY AND COMPLICATIONS IN PAEDIATRIC CONGENITAL HEART DISEASE**

F. Esmail<sup>1</sup>, V. Rai<sup>1</sup>, A. Crucean<sup>1</sup>, R. Ramiah<sup>1</sup>, A. Vora<sup>1</sup>, G. Peek<sup>1</sup>  
*University Hospitals of Leicester NHS Trust Department of East Midlands Congenital Heart Centre Leicester-United Kingdom*<sup>1</sup>

P11

**THE IMPACT OF AGE ON MID-TERM RESULTS OF THE MODIFIED FONTAN OPERATION**

P. Sfyridis<sup>1</sup>, J. Papagiannis<sup>1</sup>, G. Kirvassilis<sup>1</sup>, P. Zavaropoulos<sup>1</sup>, D. Avramidis<sup>1</sup>, N. Hakim<sup>1</sup>, P. Zografos<sup>1</sup>, G. Sarris<sup>1</sup>  
*Mitera Children's and Hygeia Hospitals Pediatric and Congenital Heart Surgery Athens-Greece*<sup>1</sup>

P12

**INTERMEDIATE TERM RESULTS WITH RVOT RECONSTRUCTION USING MATRIX P/ P PLUS HEART VALVES**

C. Koch<sup>1</sup>, J. Kroll<sup>2</sup>, E. Angeli<sup>3</sup>, G. Tarusinov<sup>4</sup>, G. Gargiulo<sup>3</sup>, W. Konertz<sup>1</sup>  
*Charité Cardiovascular Surgery Berlin-Germany*<sup>1</sup> *University Freiburg Cardiovascular Surgery Freiburg-Germany*<sup>2</sup> *University Bologna Pediatric Cardiac Surgery Bologna-Italy*<sup>3</sup> *Heartcenter Duisburg Cardiovascular Surgery Duisburg-Germany*<sup>4</sup>

P13

**ONE-LUNG FONTAN OPERATRION FOR FUNCTIONAL SINGLE VENTRICLE**

A. Sugimoto<sup>1</sup>, Y. Fujimoto<sup>1</sup>, N. Ota<sup>1</sup>, M. Murata<sup>1</sup>, Y. Tosaka<sup>1</sup>, Y. Ide<sup>1</sup>, M. Tachi<sup>1</sup>, K. Sakamoto<sup>1</sup>  
*Mt.Fuji Shizuoka Children Cardiovascular Surgery Shizuoka City-Japan*<sup>1</sup>

P14

**USE OF BIOLOGICAL ABSORBEABLE ADEHSION BARRIER TO EASE THE SURGERY DURING STAGED REOPERATIONS IN CONGENITAL CARDIAC SURGERY: 10 YEARS SINGLE CENTER EXPERIENCE**

M. Kostelka<sup>1</sup>, F. Mohr<sup>1</sup>, F. Bakhtiary<sup>1</sup>  
*Heart Center Leipzig Cardiac Surgery Leipzig-Germany*<sup>1</sup>

P15

**FLUCTUATIONS OF PERI-OPERATIVE NEAR INFRA RED SPECTROSCOPY DURING NEONATAL AND INFANT CONGENITAL HEART SURGERY ACCORDING TO DEFECT PHYSIOLOGY, BYPASS AND MODIFIED ULTRAFILTRATION**

J. Osse<sup>1</sup>, U. Gottschalk<sup>2</sup>, C. Eulenburg<sup>3</sup>, U. Wendt<sup>2</sup>, C. Schnegg<sup>2</sup>, A. Dodge-Khatami<sup>1</sup>  
*University Heart Centre Congenital Cardiovascular Surgery Hamburg-Germany*<sup>1</sup> *University Heart Centre Pediatric Cardiology Hamburg-Germany*<sup>2</sup> *University Hospital Hamburg-Eppendorf Medical*



**P16**

**COMPUTER MODELING OF THE RIGHT VENTRICLE IN REPAIRED TETRALOGY OF FALLOT**

B. Leonardi<sup>1</sup>, T. Mansi<sup>2</sup>, I. Voigt<sup>3</sup>, A. Taylor<sup>4</sup>, Y. Boudjemline<sup>5</sup>, G. Pongiglione<sup>1</sup>, N. Ayache<sup>2</sup>  
*Ospedale Pediatrico Bambino Gesù*<sup>1</sup> *Cardiology Roma-Italy*<sup>1</sup> *Asclepios Research Team, INRIA*  
*Sophia Antipolis-France*<sup>2</sup> *Siemens AG, CT SE 5 SCR2 Erlangen-Germany*<sup>3</sup> *Great Ormond Street*  
*Hospital for Children Cardiology London-United Kingdom*<sup>4</sup> *Hopital Necker-Enfants Malades*  
*Cardiology Paris-France*<sup>5</sup>

**P17**

**THE SWITCH BACK ROSS OPERATION: REPORT OF TWO CASES WITH GOOD MEDIUM TO LONG TERM FOLLOW UP**

W. Vicente<sup>1</sup>, C. Ferreira<sup>1</sup>, J. Klamt<sup>2</sup>, P. Manso<sup>3</sup>, O. Almeida Filho<sup>4</sup>, A. Carlotti<sup>5</sup>, L. Arantes<sup>6</sup>, J. Haddad<sup>4</sup>

*University of São Paulo Surgery Ribeirão Preto-Brazil*<sup>1</sup> *University of São Paulo Anesthesiology*  
*Ribeirão Preto-*<sup>2</sup> *University of São Paulo Pediatric CardiologySurgery Ribeirão Preto-*<sup>3</sup> *University of*  
*São Paulo Cardiology Ribeirão Preto-*<sup>4</sup> *University of São Paulo Pediatric Intensive Care Ribeirão*  
*Preto-*<sup>5</sup> *University of São Paulo Pediatric Cardiology Ribeirão Preto-*<sup>6</sup>

**P18**

**RISK FACTORS OF EARLY MORTALITY AFTER FONTAN OPERATION**

W. Pietrzykowski<sup>1</sup>, M. Moll<sup>1</sup>, P. Jarosik<sup>1</sup>, K. Michalak<sup>2</sup>, J. Moll<sup>2</sup>, J. Moll<sup>1</sup>  
*ICZMP Cardiac Surgery Łódź-Poland*<sup>1</sup> *ICZMP Cardiology Łódź-Poland*<sup>2</sup>

**P19**

**IMPACT OF RIGHT VENTRICULAR VOLUME CHANGE ON EXERCISE CAPACITY: A COMPARISON OF REPAIRED TETRALOGY OF FALLOT AND EBSTEIN'S ANOMALY**

P. Bambul Heck<sup>1</sup>, M. Baquet<sup>1</sup>, S. Sarikouch<sup>2</sup>, C. Schreiber<sup>3</sup>, A. Hager<sup>1</sup>, J. Hess<sup>1</sup>, S. Fratz<sup>1</sup>  
*Deutsches Herzzentrum München Pediatric Cardiology München-Germany*<sup>1</sup> *MH Hannover Klinik für*  
*Herz-, Thorax-, Transplantations-und Gefäßchirurgie Hannover-Germany*<sup>2</sup> *Deutsches Herzzentrum*  
*München Cardiovascular Surgery München-Germany*<sup>3</sup>

**P20**

**SURGERY FOR COMPLEX TRANSPOSITION OF THE GREAT ARTERIES, AND MODIFIED NIKAIKIDOH PROCEDURE**

E. Tireli<sup>1</sup>, Z. Torlak<sup>1</sup>, O. Göksel<sup>1</sup>, U. Alpagut<sup>1</sup>, E. Dayioğlu<sup>1</sup>  
*Istanbul University, Istanbul Medical Faculty Cardiovascular Surgery Istanbul-Turkey*<sup>1</sup>

**P21**

**WHICH IS THE BEST APPROACH TO REPAIR AORTIC COARCTATION WITH VENTRICULAR SEPTAL DEFECT TOTALLY IN ONE-STAGE, ARREST OR BEATING?**

H. Chen<sup>1</sup>, J. Liu<sup>1</sup>, Z. Xu<sup>1</sup>  
*Shanghai Children's Medical Center, Shanghai Jiaotong University Department of Cardiothoracic*  
*Surgery de-China*<sup>1</sup>

**P22**

**LEAFLET CHORDOPLASTY AND POSTERIOR MITRAL ADJUSTABLE ANNULOPLASTY IN CHILDHOOD: REPAIR STRATEGY AND REVIEW OF EARLY OUTCOMES**

A. Polimenakos<sup>1</sup>, M. Ilbawi<sup>1</sup>  
*Rush University Cardiothoracic Surgery Chicago-United States*<sup>1</sup>

**P23**

**NEONATAL CONGENITAL HEART BLOCK RISK FACTORS AND RESULTS OF TREATMENT**

F. Moga<sup>1</sup>, C. Clare<sup>2</sup>, M. Liu<sup>2</sup>, E. Zielinski<sup>2</sup>, D. Burton<sup>3</sup>, D. Overman<sup>1</sup>  
*The Children's Heart Clinic Pediatric Cardiac Surgery Minneapolis-United States*<sup>1</sup> *Children's*

**P24**

**EXTRACARDIAC FONTAN WITH DIRECT CAVOPULMONARY CONNECTIONS**

J. Liu<sup>1</sup>, H. Chen<sup>1</sup>, Y. Lu<sup>1</sup>, Z. Zhu<sup>1</sup>

Shanghai Children's Medical Center, Medical college of Shanghai Jiaotong University Department of Cardiothoracic Surgery Istanbul-Turkey <sup>1</sup>

**P25**

**ARTERIAL SWITCH OPERATION WITH UNIDIRECTIONAL VALVED PATCH CLOSURE OF THE VENTRICULAR SEPTAL DEFECT IN PATIENTS WITH TRANSPOSITION OF GREAT ARTERIES, AND SEVERE PULMONARY HYPERTENSION**

S. Talwar<sup>1</sup>, S. Choudhary<sup>1</sup>, V. Nair<sup>1</sup>, S. Chauhan<sup>1</sup>, S. Kothari<sup>1</sup>, R. Juneja<sup>1</sup>, A. Saxena<sup>1</sup>, B. Airan<sup>1</sup>  
All India Institute of Medical Sciences Cardiothoracic Center New Delhi-India <sup>1</sup>

**P26**

**THE MODEL OF ESTABLISHING HIGH-QUALITY PEDIATRIC CARDIAC SURGERY PROGRAM IN COUNTRIES WITH LIMITED RESOURCES: DESIGN AND EFFECTIVENESS**

A. Avramenko<sup>1</sup>, V. Goryachev<sup>2</sup>, G. Raff<sup>3</sup>, J. Everett<sup>4</sup>, N. Lusin<sup>4</sup>, S. Shorokhov<sup>1</sup>, I. Kozeva<sup>5</sup>, S. Khokhlunov<sup>5</sup>

Samara Regional Clinical Cardiac Hospital Pediatric Cardiac Surgery and Cardiology Samara-Russia <sup>1</sup> Samara State Medical University Cardiac Surgery Samara-Russia <sup>2</sup> UC Davis Medical Center Pediatric Cardiothoracic Surgery Sacramento-United States <sup>3</sup> 501 c 3 "Heart to Heart" International Children's Medical Alliance Oakland-United States <sup>4</sup> Samara Regional Clinical Cardiac Hospital Pediatric ICU Samara-Russia <sup>5</sup>

**P27**

**TOTAL CAVOPULMONARY CONNECTION TO ONE LUNG: RESULTS AND LONG-TERM FOLLOW UP IN 5 PATIENTS**

D. Borches<sup>1</sup>, L. Polo<sup>1</sup>, A. Aroca<sup>1</sup>

University Hospital "La Paz" Pediatric Cardiac Surgery Madrid-Spain <sup>1</sup>

**P28**

**COMPARISON OF INHALED NITRIC OXIDE WITH AEROSOLIZED ILOPROST FOR TREATMENT OF PULMONARY HYPERTENSION IN CHILDREN AFTER CARDIOPULMONARY BYPASS SURGERY**

T. Loukanov<sup>1</sup>, C. Sebening<sup>1</sup>, D. Bucsenez<sup>2</sup>, W. Springer<sup>2</sup>, M. Karck<sup>1</sup>, M. Gorenflo<sup>2</sup>

Univ. of Heidelberg Cardiac Surgery Heidelberg-Germany <sup>1</sup> Univ. of Heidelberg Pediatric Cardiology Heidelberg-Germany <sup>2</sup>

**P29**

**ULTRASONOGRAPHY ASSESSMENT OF VOCAL CORDS MOBILITY AFTER PEDIATRIC CARDIAC SURGERY**

G. Shaath<sup>1</sup>, A. Jijeh<sup>1</sup>, S. Ismail<sup>1</sup>, A. Alkurdi<sup>1</sup>, M. Kabbani<sup>1</sup>, M. Elbarbary<sup>1</sup>

KACC-National Guard Pediatric Cardiology/ Cardiac ICU Riyadh-Saudi Arabia <sup>1</sup>

**P30**

**IMPACT OF VENTILATOR-ASSOCIATED PNEUMONIA (VAP) ON THE OUTCOME OF CARDIAC SURGERY IN CHILDREN**

G. Shaath<sup>1</sup>, A. Jijeh<sup>1</sup>, F. Faruqui<sup>1</sup>, L. Bullard<sup>1</sup>, M. Kabbani<sup>1</sup>

KACC-National Guard Pediatric Cardiology/ Cardiac ICU Riyadh-Saudi Arabia <sup>1</sup>

**P31**

**HYBRID APPROACHES TO COMPLEX CONGENITAL HEART DISEASES WITH MUSCULAR VENTRICULAR SEPTAL DEFECTS**

*H. Zhang*<sup>1</sup>, *Z. Xu*<sup>1</sup>, *J. Liu*<sup>1</sup>, *Z. Su*<sup>1</sup>, *W. Ding*<sup>1</sup>  
*Shanghai Children's Medical Center Department of Cardiothoracic Surgery Istanbul-China*<sup>1</sup>

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**MORPHOLOGIC SPECTRUM AND INDIVIDUALIZED SURGICAL TREATMENT OF TOTAL ANOMALOUS PULMONARY VENOUS CONNECTION**

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**A RARE CONGENITAL ANOMALY: HUGE CORONARY ARTERY-RIGHT ATRIUM FISTULA**

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**INFUENCE OF COMBINED CONVENTIONAL AND MODIFIED ULTRAFILTRATION ON  
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