XII IPC
INTERNATIONAL WORKSHOP ON INTERVENTIONAL PEDIATRIC AND ADULT CONGENITAL CARDIOLOGY

March, 28th-30th 2019
Crowne Plaza Linate, Milan

March 27th:
Advanced course of AEPC Interventional Cardiology Working Group
<table>
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<tr>
<th>Time</th>
<th>Session and Presentation</th>
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| 08:00 - 08:15 | Welcome and introduction  
*M. Carminati, (Italy), G. Butera, (Italy), J. Thomson, (United Kingdom)*          |
| 08:15 - 08:50 | Presentation of attendees and staff                                                        |
| 08:50 - 10:30| **MORNING SESSION 1**  
Chairmen: *G. Butera (Italy), R. Bokenkamp (The Netherlands), S. Qureshi (United Kingdom)* |  
08:50 - 09:10 | Unusual access: jugular vein, trans-hepatic, axillary artery, carotid artery, trans-septal, radial, others  
*D. Boshoff, (Belgium)*                  |
| 09:10 - 09:30 | Hemodynamic evaluation in special settings: restrictive cardiomyopathy, pericarditis, decompensated Fontan patients  
*I. Michel-Behnke, (Austria)*            |
| 09:30 - 09:50 | Complex atrial septosptomies  
*D. Boshoff (Belgium)*                       |
| 09:50 - 10:10 | RF: pulmonary valve perforation and other uses  
*J. Thomson, (United Kingdom)*              |
| 10:10 - 10:30| Complex aortic coarctation (horizontal aorta-hypoplastic-mid-aortic syndrome)  
*S. Qureshi (United Kingdom)*            |
| 10:30 - 11:00 | Coffee break                                                                           |
| 11:00 - 12:40| **MORNING SESSION 2**  
Chairmen: *D. Boshoff, (Belgium), R. Bokenkamp (The Netherlands), I. Michel-Behnke, (Austria)* |  
11:00 - 11:20 | Hemodynamic evaluation of pulmonary hypertension  
*M. Chessa, (Italy)*                       |
| 11:20 - 11:40 | Retrieval techniques  
*R. Bokenkamp (The Netherlands)*         |
11:40 - 12:00  Closure of ASD in complex settings (multiple, pulmonary hypertension, restrictive LV, Pulmonary atresia-IVS, sinus venosus)
G. Butera, (Italy)

12:00 - 12:20  PDA stenting
I. Michel-Behnke, (Austria)

12:20 - 12:40  Hemothorax and Retroperitoneal bleeding: signs, symptoms, treatment
J. Thomson, (United Kingdom)

12:40 - 13:40  Lunch

13:40 - 15:30  ROUND TABLES WITH FELLOWS - Bring your case

15:30 - 17:10  AFTERNOON SESSION
Chairmen: M. Chessa (Italy), D. Boshoff (Belgium), J. Thomson (United Kingdom)

15:30 - 15:50  How to improve quality in your cath lab
S. Qureshi (United Kingdom)

15:50 - 16:10  Communication skills with patients, parents, staff
R. Bokenkamp (The Netherlands)

16:10 - 16:30  PDA closure in a complex setting
G. Butera, (Italy)

16:30 - 16:50  How to plan my training in congenital cardiac interventions
M. Chessa, (Italy)

16:50 - 17:10  Complex PPVI: some interesting examples
D. Boshoff (Belgium)

17:10 - 17:30  Final considerations and closure remarks
J. Thomson (United Kingdom), G. Butera, (Italy)
28 March 2019

07:50 - 08:00  Welcome  
M. Carminati, (Italy)

08:00 - 10:00  SEPTAL DEFECTS CLOSURE  
Chairman: K. Sivakumaran (India)  
Panelists: M. Papa (Italy), N.D. Tin (Vietnam), R.F. Rossi (Brasil)

08:45 - 09:00  VSD closure : innovative approaches  
K. Walsh, (Italy)

08:00 - 08:15  Suture based closure of PFO and ASD  
A. Nobles, (USA)

08:15 - 08:30  ASD closure only by Echo guidance  
X. Pan, (China)

08:30 - 08:45  Sinus Venosus ASD closure with covered stent  
S. Qureshi, (United Kingdom)

LIVE CASES SAN DONATO and LEUVEN

10:00 - 10:30  Coffee break

10:30 - 12:30  FROM PDA CLOSURE TO FISTULA EMBOLISATION  
Chairman: E. Bruckheimer (Israel)  
Panelists: J. Degiovanni (United Kingdom), A. Rodriguez (Spain), M.G. Gagliardi (Italy)

10:30 - 10:45  PDA closure in adults  
B. Dalvi, (India)

10:45 - 11:00  PDA closure in newborn below 1500gr  
A. Fraisse, (United Kingdom)

11:00 - 11:15  Intrapulmonary AVM: course of the disease and timing of embolization  
l. Daehnert, (Germany)
11:15 - 11:30  
Coronary fistula: indication, technique and follow up  
N.D. Tin (Vietnam)

**LIVE CASES SAN DONATO**  
J. Thomson, (United Kingdom)

12:30 - 14:30  
Lunch

13:00 - 14:15  
**LUNCH SESSION 1: FETAL INTERVENTIONS**
Chairman: V. Fesslova (Italy)  
Panelists: M.G. Russo (Italy), G. Brzezinska (Poland)

13:00 - 13:15  
Fetal MRI: current status, limitations and future perspective  
A. Frigiola (United Kingdom)

13:15 - 13:30  
7 years of fetal interventions in Poland: when to do what?  
A. Kolesnik (Poland)

13:30 - 13:45  
Experimental PPVI in the animal fetus: Zink stent with micro pulmonary valve  
A. Armstrong (USA)

13:45 - 14:00  
Ethical considerations on fetal Interventions  
A. G. Sharland (United Kingdom)

13:00 - 14:15  
**LUNCH SESSION 2: FROM CONGENITAL TO STRUCTURAL**
Chairman: H. Sievert (Germany)  
Panelists: I. Daehnert (Germany), G. Agnoletti (Italy)

13:00 - 13:15  
Transcatheter management of post infarction VSD  
A. Donti (Italy)

13:15 - 13:30  
Creation of ASD in heart failure  
N. Haas (Germany)

13:30 - 13:45  
Fenestration creation in extracardiac Fontan: from femoral to transhepatic approach  
C. Pedra (Brazil)

13:45 - 14:00  
Percutaneous closure of paravalvular leakage  
A. Cabalka (USA)
14:00 - 14:15  PAH: algorithm for percutaneous options from Potts shunt to medication
D. Schranz (Germany)

13:00 - 14:15  **LUNCH SESSION 3: PDA Stenting**
Chairman: M. Marasini (Italy)
Panelists: L. Benson (Canada), J.L. Zunzunegui (Spain)

13:00 - 13:15  PDA stent in duct dependent pulmonary circulation: tips and tricks
W. Prompham (Thailand)

13:15 - 13:30  PDA stenting versus BT-shunt for duct dependent pulmonary circulation: the Cairo Experience
H. Hamza (Egypt)

13:30 - 13:45  PDA stenting: how to make pulmonary vessels grow?
G. Santoro (Italy)

13:45 - 14:00  Update in Hybrid Procedure in HLHS: what did we learn?
D. Boshoff (Belgium)

14:00 - 14:15  The surgeons point of view
A. Giamberti (Italy)

14:30 - 16:30  **PPVI IN CALCIFIED CONDUITS**
Chairman: P. Ewert (Germany)
Panelists: M.G. Gagliardi (Italy), K. Walsh (Italy), O. Stumper (United Kingdom)

14:30 - 14:45  Different vascular access
J. Kreutzer, (USA)

14:45 - 15:00  Coronary assessment
C. Ruiz, (USA)

15:00 - 15:15  Complications: lessons learned
M. Witsenburg, (The Netherlands)

15:15 - 15:30  Virtual device prediction: Fancy simulation or useful tool?
F. Pluchinotta, (Italy)
LIVE CASES SAN DONATO and LEUVEN

Coffee Break

16:30 - 17:00 NEW DEVICES & TECHNIQUES
Chairman: S. Schievano (United Kingdom)
Panelists: C. Bussadori (Italy), G. Morgan (USA), P. Festa (Italy)

Unusual applications for interventional devices - versatility and lateral thinking!
J. Degiovanni, (United Kingdom)

17:00 - 17:15 Catheter interventions with MRI guidance in CHD
A. Frigliola, (United Kingdom)

17:15 - 17:30 CardioMems device: heart failure management in CHD
D. Berman, (USA)

17:30 - 17:45 Innovating the planning of CHD treatment
E. Votta, (Italy)

17:45 - 18:00 Artificial Intelligence to detect heart failure
A. Ludomirsky, (USA)

18:00 - 18:15 LIVE CASES SAN DONATO

19:00 Welcome Cocktail
29 March 2019

08:00 - 10:00  PPVI IN LARGE RVOT
Chairman: D.J. Hagler (USA)
Panelists: A. Donti (Italy), X. Pan (China), A. Celebi (Turkey)

08:00 - 08:15  When to intervene?
L. Sondergard, (Denmark)

08:15 - 08:30  Assessment of large RVOT
M. Al Jufan, (Saudi Arabia)

08:30 - 08:45  Do we need to prestent?
E. Zahn, (USA)

08:45 - 09:00  From "Russian doll" to bilateral valvation
J.L. Zunzunegui, (Spain)

LIVE CASES SAN DONATO and MUNICH

10:00 - 10:30  Coffee break

10:30 - 12:30  AORTIC VALVE AND ARCH DISEASE
Chairman: A. Armstrong (USA)
Panelists: A. Moysich (Germany), C. Pedra (Brasil), G. Sharland (United Kingdom)

10:30 - 10:45  3D statistical shape analysis of the aortic arch after CoA repair
S. Schievano, (United Kingdom)

10:45 - 11:00  Hypoplastic transverse arch and CoA: understand, than treat
E. Bruckheimer, (Israel)

11:00 - 11:15  Stenting complex coarctation
M. Chessa, (Italy)

11:15 - 11:30  Aortic valve dilatation in borderline left ventricle
G. Brzezinska, (Poland)
**LIVE CASES SAN DONATO and MUNICH**

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<td>Lunch</td>
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<td>13:00 - 14:15</td>
<td><strong>LUNCH SESSION 1: RETRIEVAL AND RECRUITEMENT TECHNIQUES</strong></td>
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<td>13:00 - 13:15</td>
<td><strong>ASD device retrieval</strong></td>
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<td><em>J.Y. Choi (South Korea)</em></td>
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<td>13:15 - 13:30</td>
<td><strong>PDA device retrieval</strong></td>
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<td><em>O. Stumper (United Kingdom)</em></td>
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<td>13:30 - 13:45</td>
<td><strong>Retrieval of misplaced stents</strong></td>
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<td><em>K. Sivakumaran (India)</em></td>
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<td>13:45 - 14:00</td>
<td><strong>Vessel occlusion: how to recanalize and recruit?</strong></td>
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<td><em>J. Kreutzer (USA)</em></td>
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<td>14:00 - 14:15</td>
<td><strong>Recruitment of occluded pulmonary arteries</strong></td>
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<td><em>G. Butera (Italy)</em></td>
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<td>13:00 - 14:15</td>
<td><strong>LUNCH SESSION 2: 3DI3 IMAGING FOR INTERVENTIONS</strong></td>
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<td>13:00 - 13:15</td>
<td><strong>Is 3DRA worth the effort and radiation?</strong></td>
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<td><em>F. Gutierrez-Larraya (Spain)</em></td>
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<td>13:15 - 13:30</td>
<td><strong>Cookbook</strong></td>
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<td><em>A. Armstrong (USA)</em></td>
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<td>13:30 - 13:45</td>
<td><strong>3D image fusion</strong></td>
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<td><em>S. Goreczny (Poland)</em></td>
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<td>13:45 - 14:00</td>
<td><strong>3DRA in complex PPVI</strong></td>
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<td><em>H. Breur (The Netherlands)</em></td>
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<td>13:00 - 14:15</td>
<td><strong>LUNCH SESSION 3 SPONSORED by ABBOTT</strong></td>
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<td>14:30 - 16:45</td>
<td><strong>RVOT, PULMONARY ARTERIES AND VEINS</strong></td>
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<td>Chairman: R. Bokenkamp (The Netherlands)</td>
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<td>Panelists: S. El Saiedi (Egypt), J. Kreutzer (USA), A. Giamberti (Italy)</td>
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<td>14:30 - 14:45</td>
<td>Promote PA growth: RVOT versus PDA stenting</td>
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<td>L. Benson, (Canada)</td>
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<td>14:45 - 15:00</td>
<td>RVOT stenting techniques and complications in the newborn</td>
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<td>A. Peirone, (Argentina)</td>
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<td>15:00 - 15:15</td>
<td>Indication for LPA stenting after Switch</td>
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<td>G. Morgan (USA)</td>
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<td>15:15 - 15:30</td>
<td>How to treat pulmonary vein stenosis: balloons, stents...</td>
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<td>M. Schneider, (Germany)</td>
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<td><strong>LIVE CASES SAN DONATO and MUNICH</strong></td>
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<td>16:45 - 17:00</td>
<td>Coffee break</td>
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<td>17:00 - 17:50</td>
<td><strong>IPC AWARD</strong></td>
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<td>Chairmen: S. Qureshi (United Kingdom), M. Carminati (Italy)</td>
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<td><strong>LIVE CASES SAN DONATO</strong></td>
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<td>18:20 - 18:50</td>
<td>Lecture</td>
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<td>From hearts to violins to the concept of science and music</td>
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<td>P. Bonhoeffer, (Italy)</td>
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<td>18:50</td>
<td>End of the day TWO</td>
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<td>20:00</td>
<td>Social Dinner</td>
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30 March 2019

08:00 - 10:00  **AV VALVE-IN-VALVE**
Chairmen: C. Ruiz (USA)
Panelists: A. Micheletti (Italy), E. Zahn (USA), D. Kenny (Ireland)

08:00 - 08:15  Surgical atrioventricular valve replacement with Melody® valve in infants and children
F. Pluchinotta, (Italy)

08:15 - 08:30  Tricuspid Valve in Valve: Registry Outcomes and Technical Tips
A. Cabalka, (USA)

08:30 - 08:45  Mitral Clip in Tricuspid Valve: more than just three leaflets to clip
K. Sievert, (Germany)

08:45 - 09:00  Long term results after percutaneous tricuspid valve implantation
A. Eicken, (Germany)

**LIVE CASES SAN DONATO**

10:30 - 11:00  Coffee break

11:00 - 12:45  **SINGLE VENTRICLE STAGE I-III**
Chairman: D. Schranz (Germany)
Panelists: I. Spadoni (Italy), V. Vairo (Italy), M. Schneider (Germany)

11:00 - 11:15  ProCon: CMR versus Cath to prepare for Glenn and Fontan
V. Muthurangu, (United Kingdom)

11:15 - 11:30  ProCon: CATH versus CMR to prepare for Glenn and Fontan
O. Stumper, (United Kingdom)

11:30 - 11:45  Fate of the Fontan connection: Interventional and Surgical results
D.J. Hagler, (USA)

11:45 - 12:00  Interventions in critical Stage I with 3DRA guidance
D. Berman, (USA)

13:45 - 14:00  Oval stenting of LPA: indication and procedure
G.J. Krings, (The Netherlands)
12:00 - 12:15  **LIVE CASE SAN DONATO**

13:00 - 14:15  **LUNCH SESSION: UPDATE ON PERCUTANEOUS PULMONARY VALVES**
Chairman: G.J. Krings (The Netherlands)
Panelists: D. Berman (USA), K. Walsh (Italy)

13:00 - 13:15  Harmony I and II: what did we learn and what to expect?
L. Benson (Canada)

13:15 - 13:30  Sapien and Alterra: results of the current Clinical Trial Study
E. Zahn (USA)

13:30 - 13:45  Venus P valve from China to Latin America
F.J. Garay Greve (Chile)

13:45 - 14:00  Pulsta: update on the Pre-Approval Study
G.B. Kim (South Korea)

14:00 - 14:15  Tissue engineering for transcatheter pulmonary valve replacement
D. Kenny (Ireland)

14:00 - 14:30  **LIVE CASE SAN DONATO**

14:30 - 16:15  **NIGHTMARE CASES**
Chairman: S. Qureshi (United Kingdom)
Panelist: G. J. Krings (The Netherlands), G. Agnoletti (Italy)

14:30 - 14:45  Case 1
M. Marasini, (Italy)

14:45 - 15:00  Case 2
I. Michel-Behnke, (Austria)

15:00 - 15:15  Case 3
J. Thomson, (United Kingdom)

15:15 - 15:30  Case 4
A. Celebi, (Turkey)

15:30 - 15:45  Case 5
R.F. Rossi, (Brasil)

16:15 - 16:30  Final remarks