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SPECIAL WIPC 2019 PREVIEW ISSUE

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Preview of the XII International Workshop on Interventional Pediatric and Adult Congenital Cardiology and Advanced 3D Imaging for Intervention - Milan, Italy, March 28-30, 2019

By Mario Carminati, MD



Dear Friends and Colleagues,

It is my pleasure to announce the *XXII Edition of the IPC Workshop*, that will take place in Milan, from the 28th to 30th of March.

The *Workshop* will be held at Crowne Plaza Milano Linate, near San Donato Hospital.

All participants and speakers will be accommodated at the congress venue to facilitate our networking activities.

As you already know very well, the aim of the meeting is to give participants an update on the most important and innovative interventional procedures for the treatment of Congenital and Structural Heart Disease from fetus to adulthood.

Our Faculty will be represented by well-known and internationally recognized speakers, to guarantee a top level scientific program with: lectures, lunch symposia, interactive sessions and satellite transmissions of live cases from well-known centers in Europe and Italy.

Again, this year we will have a joint meeting with *3D Advanced Imaging for Intervention*, coordinated by Gregor Krings and Aimee Armstrong.

A continuous technical exhibition and a poster session will complete the panorama.

We will work in the usual friendly atmosphere that has always characterized the *IPC Workshop*: a meeting among long-lasting friends!

Looking forward to receiving you all in Milan; I send my warmest regards.

Mario Carminati, MD
President

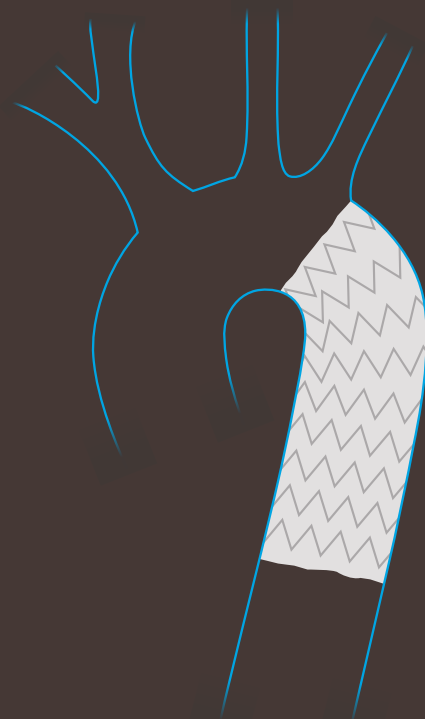


XXII IPC - TOPICS

- 3rd AEPC Advanced Fellow Course
- Catheter interventions in fetus and neonate
- Stenosis/Hypoplasia of pulmonary arteries and veins
- Atrial Septal Defect
- Engineering
- Nightmares in the cath lab
- PFO
- Aortic arch obstruction
- Pulmonary valve replacement
- Ventricular Septal Defects
- Hypoplastic Left Heart Syndrome
- Intervention Post Fontan
- Miscellanea

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...and
available*





Visit the XXII IPC Workshop
website for updates to the program.
www.WorkshopIPC.com

XXII WIPC - REGISTRATION INFORMATION

Deadline for registration: March 17th, 2019

Registration



www.WorkshopIPC.com

REGISTRATION FEES

Physicians	€ 600,00
Nurses/Technicians/Students/ Members of AEPC Working Group on Interventional Cardiology	€ 400,00
Poster Presenters	€ 250,00
Social Dinner	€ 50,00

IMPORTANT: People requesting the reduced fee for fellows/residents, nurses, technicians and AEPC Working Group must provide certification to confirm their position.

Registration Fees Include:

Admission to the scientific sessions, entrance to exhibition area, congress kit, access to proceedings on the congress web site, coffee breaks and lunches, UEMS and EBAC credits (except for fellows, residents, nurses and technicians).

Methods of Payment Accepted:

- Credit Card (Visa, Eurocard, Mastercard, Carta Si, American Express)
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Please note, that if you wish to pay by bank transfer you need to provide a copy of payment within 10 days, please write IPC2019 on the bank transfer.

“We will work in the usual friendly atmosphere that has always characterized the IPC Workshop: a meeting among long-lasting friends!”

**ADVANCED COURSE OF AEPC INTERVENTIONAL
WORKING GROUP
MARCH 27th - WEDNESDAY**

8:00-8:15 am - Welcome and introduction

M. Carminati (Italy); G. Butera (United Kingdom); J. Thomson (United Kingdom)

8:15-8:50 am - Presentation of attendees and staff

8:50-10:30 am - MORNING SESSION 1

Chairmen: G. Butera (United Kingdom); R. Bokenkamp (The Netherlands); S.A. Qureshi (United Kingdom)

- **Unusual access: jugular vein, trans-hepatic, axillary artery, carotid artery, trans-septal, radial, others**
- *D. Boshoff (Belgium)*
- **Hemodynamic evaluation in special settings: restrictive, cardiomyopathy, pericarditis, decompensated Fontan patients** - *I. Michel-Behnke (Austria)*
- **Complex atrial septostomies** - *D. Boshoff (Belgium)*
- **RF: pulmonary valve perforation and other uses**
- *J. Thomson (United Kingdom)*
- **Complex aortic coarctation (horizontal aorta-hypoplastic-mid-aortic syndrome)** - *S.A. Qureshi (United Kingdom)*

10:30-11:00 am - Coffee break

11:00 am-12:40 pm - MORNING SESSION 2

Chairmen: D. Boshoff (Belgium); R. Bokenkamp (The Netherlands); I. Michel-Behnke (Austria)

- **Hemodynamic evaluation of pulmonary hypertension**
- *M. Chessa (Italy)*
- **Retrieval techniques** - *R. Bokenkamp (The Netherlands)*
- **Closure of ASD in complex settings (multiple, pulmonary hypertension, restrictive LV, pulmonary atresia-IVS, sinus venosus)** - *G. Butera (United Kingdom)*
- **PDA stenting** - *I. Michel-Behnke (Austria)*
- **Hemothorax and retroperitoneal bleeding: signs, symptoms, treatment** - *J. Thomson (United Kingdom)*

12:40-1:40 pm - Lunch

2:00-2:40 pm - ROUND TABLE WITH FELLOWS – Bring your case

2:40-3:30 pm - Team Case Presentation

3:30-5:10 pm - AFTERNOON SESSION

Chairmen: M. Chessa (Italy); D. Boshoff (Belgium); J. Thomson (United Kingdom)

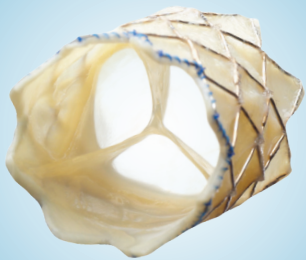
- **How to improve quality in your cath lab** - *S.A. Qureshi (United Kingdom)*
- **Communication skills with patients, parents, staff** - *R. Bokenkamp (The Netherlands)*
- **PDA closure in a complex setting** - *G. Butera (United Kingdom)*
- **How to plan my training in congenital cardiac interventions** - *M. Chessa (Italy)*
- **Complex PPVI: some interesting examples** - *D. Boshoff (Belgium)*

5:10-5:30 pm - Final considerations and closure remarks - *J. Thomson (United Kingdom); G. Butera (United Kingdom)*

Dinner



RIGHT DATA.



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The Melody TPV System received Health Canada approval in December 2006 and US approval under an HDE on January 25, 2010 (H080002).

PMA approval received January 27, 2015 (P140017).

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Melody™ Transcatheter Pulmonary Valve, Ensemble™ II Transcatheter Valve Delivery System

Important Labeling Information for the United States

Indications: The Melody TPV is indicated for use in the management of pediatric and adult patients who have a clinical indication for intervention on a dysfunctional right ventricular outflow tract (RVOT) conduit or surgical bioprosthetic pulmonary valve that has \geq moderate regurgitation, and/or a mean RVOT gradient \geq 35 mm Hg.

Contraindications: None known.

Warnings/Precautions/Side Effects:

- **DO NOT implant in the aortic or mitral position. Pre-clinical bench testing of the Melody valve suggests that valve function and durability will be extremely limited when used in these locations.**
- DO NOT use if patient's anatomy precludes introduction of the valve, if the venous anatomy cannot accommodate a 22 Fr size introducer, or if there is significant obstruction of the central veins.
- DO NOT use if there are clinical or biological signs of infection including active endocarditis. Standard medical and surgical care should be strongly considered in these circumstances.
- Assessment of the coronary artery anatomy for the risk of coronary artery compression should be performed in all patients prior to deployment of the TPV.
- To minimize the risk of conduit rupture, do not use a balloon with a diameter greater than 110% of the nominal diameter (original implant size) of the conduit for pre-dilation of the intended site of deployment, or for deployment of the TPV.
- The potential for stent fracture should be considered in all patients who undergo TPV placement. Radiographic assessment of the stent with chest radiography or fluoroscopy should be included in the routine postoperative evaluation of patients who receive a TPV.
- If a stent fracture is detected, continued monitoring of the stent should be performed in conjunction with clinically appropriate hemodynamic assessment. In patients with stent fracture and significant associated RVOT obstruction or regurgitation, reintervention should be considered in accordance with usual clinical practice.

Potential procedural complications that may result from implantation of the Melody device include the following: rupture of the RVOT conduit, compression of a coronary artery, perforation of a major blood vessel, embolization or migration of the device, perforation of a heart chamber, arrhythmias, allergic reaction to contrast media, cerebrovascular events (TIA, CVA), infection/sepsis, fever, hematoma, radiation-induced erythema, blistering, or peeling of skin, pain, swelling, or bruising at the catheterization site.

Potential device-related adverse events that may occur following device implantation include the following: stent fracture, stent fracture resulting in recurrent obstruction, endocarditis, embolization or migration of the device, valvular dysfunction (stenosis or regurgitation), paravalvular leak, valvular thrombosis, pulmonary thromboembolism, hemolysis.

"The term "stent fracture" refers to the fracturing of the Melody TPV. However, in subjects with multiple stents in the RVOT it is difficult to definitively attribute stent fractures to the Melody frame versus another stent.

For additional information, please refer to the Instructions for Use provided with the product or available on <http://manuals.medtronic.com>.

CAUTION: Federal law (USA) restricts this device to sale by or on the order of a physician.

Important Labeling Information for Geographies Outside of the United States

Indications: The Melody™ TPV is indicated for use in patients with the following clinical conditions:

- Patients with regurgitant prosthetic right ventricular outflow tract (RVOT) conduits or bioprostheses with a clinical indication for invasive or surgical intervention, OR
- Patients with stenotic prosthetic RVOT conduits or bioprostheses where the risk of worsening regurgitation is a relative contraindication to balloon dilatation or stenting

Contraindications:

- Venous anatomy unable to accommodate a 22 Fr size introducer sheath
- Implantation of the TPV in the left heart
- RVOT unfavorable for good stent anchorage
- Severe RVOT obstruction, which cannot be dilated by balloon
- Obstruction of the central veins
- Clinical or biological signs of infection
- Active endocarditis
- Known allergy to aspirin or heparin
- Pregnancy

Potential Complications/Adverse Events: Potential procedural complications that may result from implantation of the Melody device include the following: rupture of the RVOT conduit, compression of a coronary artery, perforation of a major blood vessel, embolization or migration of the device, perforation of a heart chamber, arrhythmias, allergic reaction to contrast media, cerebrovascular events (TIA, CVA), infection/sepsis, fever, hematoma, radiation-induced erythema, pain, swelling or bruising at the catheterization site.

Potential device-related adverse events that may occur following device implantation include the following: stent fracture, stent fracture resulting in recurrent obstruction, endocarditis, embolization or migration of the device, valvular dysfunction (stenosis or regurgitation), paravalvular leak, valvular thrombosis, pulmonary thromboembolism, hemolysis.

The term "stent fracture" refers to the fracturing of the Melody TPV. However, in subjects with multiple stents in the RVOT it is difficult to definitively attribute stent fractures to the Melody frame versus another stent.

For additional information, please refer to the Instructions for Use provided with the product or available on <http://manuals.medtronic.com>.

The Melody Transcatheter Pulmonary Valve and Ensemble II Transcatheter Delivery System has received CE Mark approval and is available for distribution in Europe.

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XXII International Workshop on Interventional Pediatric and Adult Congenital Cardiology & Advanced 3D Imaging for Intervention

AEPC Advanced Fellow Course

The IPC Workshop & Advanced 3D Imaging for Intervention will be held at Crowne Plaza Milano Linate, near San Donato Hospital (Italy), from March 28th to March 30th. On March 27th, we will also host the *Advanced 3D Imaging Fellow Course* at the same venue. The aim of the meeting is to give participants an update on the most important and innovative interventional procedures for the treatment of Congenital and Structural Heart Disease from fetus to adulthood, with an eye to the future in Advanced 3D Imaging.

Advanced imaging is becoming more and more important in our profession, and we would like to offer a comprehensive excursus of the most advanced solutions available for all professionals.

Our faculty will be represented by well-known and internationally recognized speakers, guaranteeing a top-level scientific program: lectures, lunch symposia, interactive sessions, satellite transmissions of live cases from well-known centers in Europe and Italy, all in HD!

In addition, we believe that the usual friendly atmosphere will make the *XXII IPC Workshop* a pleasant meeting among friends. An ongoing technical exhibition and a poster session will complete the panorama.

For further information and to register, go to www.WorkshopIPC.com or contact us at ipcworkshop@aimgroup.eu.



**XXII IPC WORKSHOP
MARCH 28th - THURSDAY**

7:50-8:00 am - Welcome - M. Carminati (Italy)

8:00- 10:00 am - SEPTAL DEFECTS CLOSURE

Chairman: K. Sivakumaran (India)

Panelists: M. Papa (Italy); N.D. Tin (Vietnam); R.I. Rossi Filho (Brazil)

- Suture-based closure of PFO and ASD - A. Nobles (USA)
- ASD closure only by Echo guidance - X. Pan (China)
- Sinus Venosus ASD closure with covered stent - S.A. Qureshi (United Kingdom)
- VSD closure : innovative approaches - K.P. Walsh (Ireland)

LIVE CASES SAN DONATO and LEUVEN

10:00 -10:30 am - Coffee break

10:30 am-12:30 pm - FROM PDA CLOSURE TO FISTULA EMBOLISATION

Chairman: E. Bruckheimer (Israel)

Panelists: J. DeGiovanni (United Kingdom); A. Rodriguez (Spain); M.G. Gagliardi (Italy)

- PDA closure in adults - B.V. Dalvi (India)
- PDA closure in newborn below 1500gr - A. Fraisse (United Kingdom)
- Intrapulmonary AVM: course of the disease and timing of embolization - I. Daehnert (Germany)
- Coronary fistula: indication, technique and follow-up - N.D. Tin (Vietnam)

LIVE CASES SAN DONATO

12:30-1:00 pm - Lunch

1:00-2:15 pm - LUNCH SESSION 1: FROM CONGENITAL TO STRUCTURAL

Chairman: H. Sievert (Germany)

Panelists: I. Daehnert (Germany); G. Agnoletti (Italy)

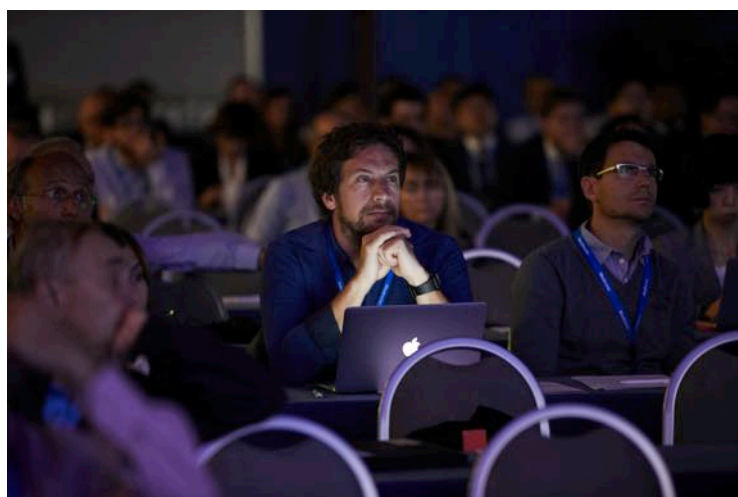
- Transcatheter management of post-infarction VSD - A. Donti (Italy)
- Creation of ASD in heart failure - N. Haas (Germany)
- Fenestration creation in extracardiac Fontan: from femoral to transhepatic approach - C. Pedra (Brazil)
- Percutaneous closure of paravalvular leakage - A.K. Cabalka (USA)
- PAH: algorithm for percutaneous options from Potts shunt to medication - D. Schranz (Germany)

1:00-2:15 pm - LUNCH SESSION 2: FETAL INTERVENTIONS

Chairman: V. Fesslova (Italy)

Panelists: M.G. Russo (Italy); G. Brzezinska (Poland)

- Fetal MRI: current status, limitations and future perspective - A. Frigiola (United Kingdom)
- Seven years of fetal interventions in Poland: When to do what? - A. Kolesnik (Poland)
- Experimental PPVI in the animal fetus: Zink stent with micro pulmonary valve - A.K. Armstrong (USA)
- Ethical considerations of fetal Interventions - G. Sharland (United Kingdom)
- Discussion



Watch live cases from past IPC meetings
<https://www.youtube.com/user/IPCWorkshop>



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**XXII IPC WORKSHOP
MARCH 28th - THURSDAY**

1:00-2:15 pm - LUNCH SESSION 3: PDA Stenting

Chairman: M. Marasini (Italy)

Panelists: L.N. Benson (Canada); J.L. Zunzunegui (Spain)

- **PDA stent in duct dependent pulmonary circulation: tips and tricks** - W. Prompham (Thailand)
- **PDA stenting versus BT-shunt for duct-dependent pulmonary circulation: the Cairo Experience** - H. Hamza (Egypt)
- **PDA stenting: How to make pulmonary vessels grow?** - G. Santoro (Italy)
- **Update in Hybrid Procedure in HLHS: What did we learn?** - D. Boshoff (Belgium)
- **The surgeons point of view** - A. Giamberti (Italy)

1:00- 2:15 pm - LUNCH SESSION 4: Industry - Sponsored Symposium

2:30- 4:30 pm - PPVI IN CALCIFIED CONDUITS

Chairman: P. Ewert (Germany)

Panelists: M.G. Gagliardi (Italy); K.P. Walsh (Ireland); O. Stumper (United Kingdom)

- **Different vascular access** - J. Kreutzer (USA)
- **Coronary assessment** - C. Ruiz (USA)
- **Complications: lessons learned** - M. Witsenburg (The Netherlands)
- **Virtual device prediction: Fancy simulation or useful tool?** - F. Pluchinotta (Italy)

LIVE CASES SAN DONATO and LEUVEN

4:30-5:00 pm - Coffee Break

5:00-6:45 pm - NEW DEVICES & TECHNIQUES

Chairman: S. Schievano (United Kingdom)

Panelists: C. Bussadori (Italy); G.J. Morgan (USA); P. Festa (Italy)

- **Unusual applications for interventional devices - versatility and lateral thinking!** - J. DeGiovanni (United Kingdom)
- **Catheter interventions with MRI guidance in CHD** - A. Frigiola (United Kingdom)
- **CardioMems device: Heart failure management in CHD** - D.P. Berman (USA)
- **Innovating the planning of CHD treatment** - E. Votta (Italy)
- **Artificial Intelligence to detect heart failure** - A. Ludomirsky (USA)

LIVE CASES SAN DONATO

7:00 pm - Welcome (Cocktails)



**XXII IPC WORKSHOP
MARCH 29th - FRIDAY**

8:00-10:00 am - PPVI IN LARGE RVOT

Chairman: D.J. Hagler (USA)

Panelists: A. Donti (Italy); X. Pan (China); A. Celebi (Turkey)

- **When to intervene?** - L. Sondergard (Denmark)
- **Assessment of large RVOT** - M. Al Jufan (Saudi Arabia)
- **Do we need to presten?** - E. Zahn (USA)
- **From "Russian doll" to bilateral valvation** - J.L. Zunzunegui (Spain)

LIVE CASES SAN DONATO and MUNICH

10:00-10:30 am - Coffee break

10:30 am-12:30 pm - AORTIC VALVE AND ARCH DISEASE

Chairman: A.K. Armstrong (USA)

Panelists: A. Moysich (Germany); C. Pedra (Brazil); G. Sharland (United Kingdom)

- **3D statistical shape analysis of the aortic arch after CoA repair** - S. Schievano (United Kingdom)
- **Hypoplastic transverse arch and CoA: understand, then treat** - E. Bruckheimer (Israel)
- **Stenting complex coarctation** - M. Chessa (Italy)
- **Aortic valve dilatation in borderline left ventricle** - G. Brzezinska (Poland)

LIVE CASES SAN DONATO and MUNICH

12:30-1:00 pm - Lunch

1:00-2:15 pm- LUNCH SESSION 1: RETRIEVAL AND RECRUITMENT TECHNIQUES

Chairman: A. Cabalka (USA)

Panelists: B. Dalvi (India); A. Fraisse (United Kingdom)

- **ASD device retrieval** - J.Y. Choi (South Korea)
- **PDA device retrieval** - O. Stumper (United Kingdom)
- **Retrieval of misplaced stents** - K. Sivakumaran (India)
- **Vessel occlusion: How to recanalize and recruit?** - J. Kreutzer (USA)
- **Recruitment of occluded pulmonary arteries** - G. Butera (United Kingdom)



**XXII IPC WORKSHOP
MARCH 29th - FRIDAY**

1:00-2:15 pm - LUNCH SESSION 2: 3D13 IMAGING FOR INTERVENTIONS

Chairman: P. Festa (Italy)

Panelists: M. Lombardi (Italy); V. Muthurangu (United Kingdom)

- **Is 3DRA worth the effort and radiation?**
- F. Gutierrez-Larraya (Spain)
- **Cookbook** - A.K. Armstrong (USA)
- **3D image fusion** - S. Goreczny (Poland)
- **3DRA in complex PPVI** - H. Breur (The Netherlands)
- **How the engineer can help** - A. Redaelli (Italy)

2:30-4:30 pm - RVOT, PULMONARY ARTERIES AND VEINS

Chairman: R. Bokenkamp (The Netherlands)

Panelists: S. El Saiedi (Egypt); J. Kreutzer (USA); A. Giamberti (Italy)

- **Promote PA growth: RVOT versus PDA stenting**
- L.N. Benson (Canada)
- **RVOT stenting techniques and complications in the newborn** - A. Peirone (Argentina)
- **Indication for LPA stenting after Switch** - G.J. Morgan (USA)
- **How to treat pulmonary vein stenosis: balloons, stents**
- M.B.E. Schneider (Germany)

LIVE CASES SAN DONATO and MUNICH

4:30-5:00 pm - Coffee break

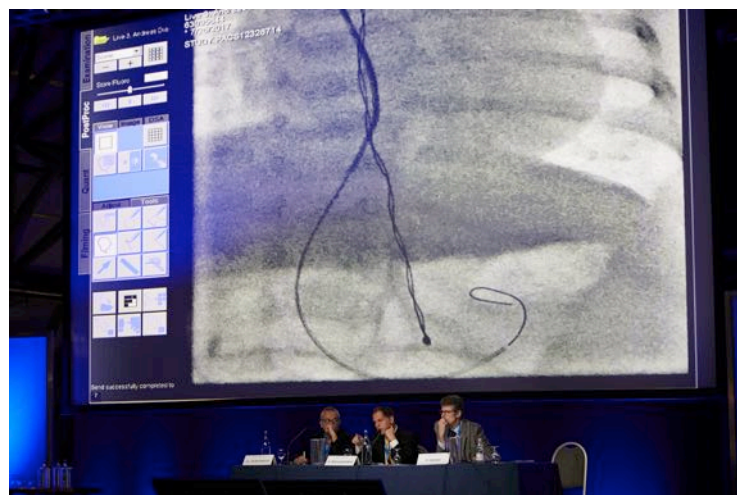
5:00-6:20 pm - IPC AWARD - (Oral Communications - Not CME Accredited)

Chairmen: S.A. Qureshi (United Kingdom); M. Carminati (Italy)

LIVE CASE SAN DONATO

6:20-6:50 pm - LECTURE - From hearts to violins, to the concept of science and music - P. Bonhoeffer (Italy)

8:00 pm - Social Dinner



**XXII IPC WORKSHOP
MARCH 30th - SATURDAY**

8:00-10:00 am - AV VALVE-IN-VALVE

Chairman: C. E. Ruiz (USA)

Panelists: A. Micheletti (Italy); E.M. Zahn (USA); D. Kenny (Ireland)

- **Surgical atrioventricular valve replacement with Melody® valve in infants and children** - F. Pluchinotta (Italy)
- **Tricuspid Valve in Valve: Registry outcomes and technical tips** - A.K. Cabalka (USA)
- **Mitral Clip in Tricuspid Valve: More than just three leaflets to clip** - K. Sievert (Germany)
- **Long-term results after percutaneous tricuspid valve implantation** - A. Eicken (Germany)

LIVE CASES SAN DONATO

10:00-10:30 am - Coffee break

10:30 am-12:45 pm - SINGLE VENTRICLE STAGE I-III

Chairman: D. Schranz (Germany)

Panelists: I. Spadoni (Italy); V. Vairo (Italy); M.B.E. Schneider (Germany)

- **Pro/Con: CMR versus Cath to prepare for Glenn and Fontan** - V. Muthurangu (United Kingdom)
- **Pro/Con: CATH versus CMR to prepare for Glenn and Fontan** - O. Stumper (United Kingdom)
- **Fate of the Fontan connection: Interventional and surgical results** - D.J. Hagler (USA)
- **Interventions in critical stage with 3DRA guidance** - D.P. Berman (USA)
- **Oval stenting of LPA: Indication and procedure** - G.J. Krings (The Netherlands)

LIVE CASE SAN DONATO

12:15-1:00 pm - Lunch

1:00-2:15 pm - LUNCH SESSION: UPDATE ON PERCUTANEOUS PULMONARY VALVES

Chairman: G.J. Krings (The Netherlands)

Panelists: D.P. Berman (USA); K.P. Walsh (Ireland)

- **Harmony I and II: What did we learn and what to expect?** - L.N. Benson (Canada)
- **Sapien and Alterra: Results of the current clinical trial study** - E.M. Zahn (USA)
- **Venus P valve from China to Latin America** - F.J. Garay Greve (Chile)
- **Pulsta: Update on the pre-approval study** - G.B. Kim (South Korea)
- **Tissue engineering for transcatheter pulmonary valve replacement** - D. Kenny (Ireland)

2:30-4:00 pm - NIGHTMARE CASES: Topic: Clinical cases related to interventional procedures in Congenital Heart Diseases

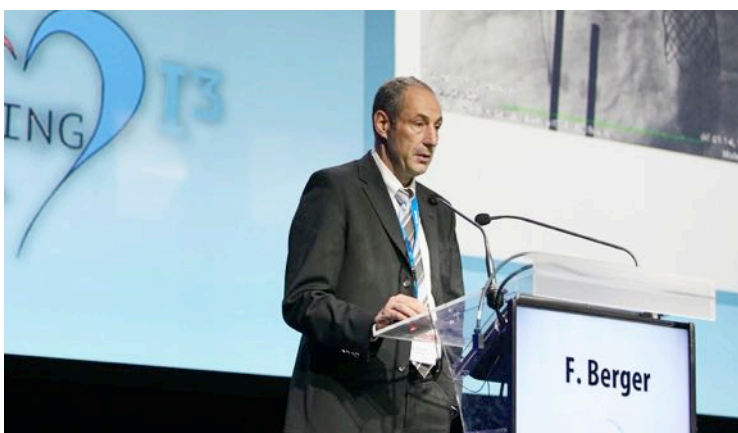
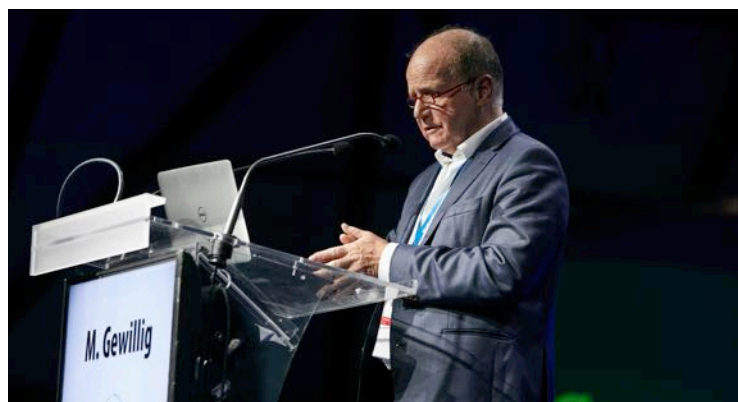
Chairman: S.A. Qureshi (United Kingdom)

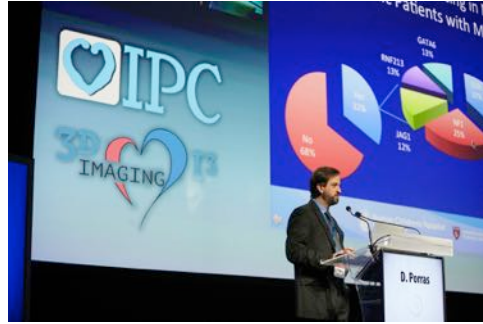
Panelists: G.J. Krings (The Netherlands); G. Agnoletti (Italy)

- **Case 1** - M. Marasini (Italy)
- **Case 2** - I. Michel-Behnke (Austria)
- **Case 3** - J. Thomson (United Kingdom)
- **Case 4** - A. Celebi (Turkey)
- **Case 5** - R.I. Rossi Filho (Brazil)

LIVE CASE SAN DONATO

4:00-4:30 pm - Final remarks





XXII IPC WORKSHOP SCIENTIFIC COMMITTEES

President

*Mario Carminati
(Italy)*

IPC Scientific Committee

- *George Krings
(The Netherlands)*
- *Gianfranco Butera
(United Kingdom)*
- *Massimo Chessa
(Italy)*
- *Francesca Pluchinotta
(Italy)*

Pediatric and Adult Congenital Cardiology Team

- *Mario Carminati
(Italy)*
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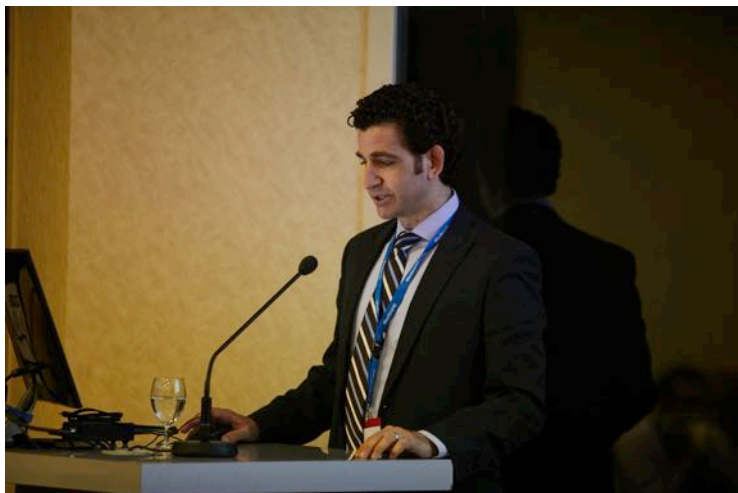
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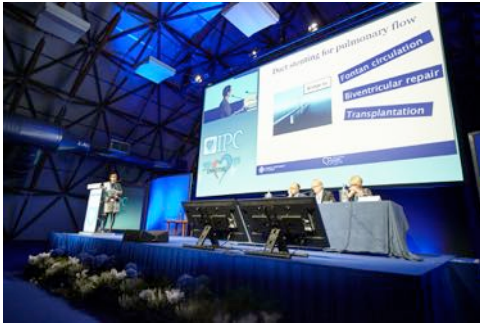
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