

XII IPC

INTERNATIONAL WORKSHOP ON
INTERVENTIONAL PEDIATRIC AND
ADULT CONGENITAL CARDIOLOGY AND
ADVANCED 3D IMAGING FOR INTERVENTION

March, 28th-30th 2019

Crowne Plaza Linate, Milan

March 27th:

Advanced course of AEPC Interventional
Cardiology Working Group



AUSPICES 2019



Association for European Pediatric Cardiology (AEPC)



International Society of Adult Congenital Heart Disease (ISACHD)

Meeting endorsed by ISACHD (International Society of Adult Congenital Heart Disease), a global umbrella organization of national/regional ACHD societies/working groups



Società Italiana di Cardiologia Pediatrica e delle Cardiopatie Congenite

Welcome Address

Dear Delegate,

it is my pleasure to announce the 12th edition of the IPC Workshop, that will take place in Milan, from 28th to 30th March.

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

All participants and speakers will be accommodated into 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: lectures, lunch symposia, interactive sessions, satellite transmissions of live cases from well-known centers in Europe and Italy.

For this edition again, we will have a joint meeting with 3D Advanced Imaging, coordinated by Gregor Krings and Aimee Armstrong. An all-time going 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

President

SCIENTIFIC COMMITTEE

President

Mario Carminati

IPC Scientific Committee

Gregor Krings (The Netherlands)

Gianfranco Butera (United Kingdom)

Massimo Chessa (Italy)

Francesca Pluchinotta (Italy)

COMMITTEE

Pediatric and Adult Congenital Cardiology Team

Mario Carminati (Italy)

Massimo Chessa (Italy)

Andreea Andronache (Italy)

Carmelo Arcidiacono (Italy)

Domenica Basile (Italy)

Angelo Fabio D'Aiello (Italy)

Alessia Faccini (Italy)

Vlasta Fesslova (Italy)

Luca Giugno (Italy)

Angelo Micheletti (Italy)

Diana Negura (Italy)

Luciane Piazza (Italy)

Francesca Pluchinotta (Italy)

Antonio Saracino (Italy)

3DI3 - Advanced Imaging

Gregor Krings (The Netherlands)

Francesca Pluchinotta (Italy)

Aimee Armstrong (USA)

AEPC Fellow Advanced Course Organizing Committee

Gianfranco Butera (United Kingdom)

Regina Bokenkamp (The Netherlands)

John Thomson (United Kingdom)

Congenital Cardiac Surgery Team

Alessandro Frigiola (Italy)

Alessandro Giamberti (Italy)

Andrea Quarti (Italy)

Matteo Reali (Italy)

Alessandro Varrica (Italy)

Mauro Lo Rito (Italy)

Veronica D'Oria (Italy)

27 March 2019 ADVANCED COURSE OF AEPC INTERVENTIONAL WORKING GROUP

27-30 March **POSTER SESSION (Not CME Accredited)**

08:00 - 08:15 **Welcome and introduction**
M. Carminati (Italy), G. Butera (United Kingdom), J. Thomson (United Kingdom)

08:15 - 08:50 **Presentation of attendees and staff**

08:50 - 10:30 **MORNING SESSION 1**

Chairmen: *G. Butera (United Kingdom), R. Bokenkamp (The Netherlands), S.A. 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 septosotomies**
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.A. 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) <i>G. Butera (United Kingdom)</i>
12:00 - 12:20	PDA stenting <i>I. Michel-Behnke (Austria)</i>
12:20 - 12:40	Hemothorax and Retroperitoneal bleeding: signs, symptoms, treatment <i>J. Thomson (United Kingdom)</i>
12:40 - 13:40	Lunch
14:00 - 14:40	ROUND TABLES WITH FELLOWS - Bring your case
14:40 - 15:30	Team Case Presentation
15:30 - 17:10	AFTERNOON SESSION Chairmen: <i>M. Chessa (Italy), D. Boshoff (Belgium), J. Thomson (United Kingdom)</i>
15:30 - 15:50	How to improve quality in your cath lab <i>S.A. Qureshi (United Kingdom)</i>
15:50 - 16:10	Communication skills with patients, parents, staff <i>R. Bokenkamp (The Netherlands)</i>
16:10 - 16:30	PDA closure in a complex setting <i>G. Butera (United Kingdom)</i>
16:30 - 16:50	How to plan my training in congenital cardiac interventions <i>M. Chessa (Italy)</i>
16:50 - 17:10	Complex PPVI: some interesting examples <i>D. Boshoff (Belgium)</i>
17:10 - 17:30	Final considerations and closure remarks <i>J. Thomson (United Kingdom), G. Butera (United Kingdom)</i>

28 March 2019 XII INTERNATIONAL WORKSHOP ON INTERVENTIONAL PEDIATRIC AND ADULT CONGENITAL CARDIOLOGY AND ADVANCED 3D IMAGING FOR INTERVENTION

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.I. Rossi Filho (Brazil)*

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.A. Qureshi (United Kingdom)

08:45 - 09:00

VSD closure: innovative approaches
K.P. Walsh (Ireland)

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.V. Dalvi (India)

10:45 - 11:00

PDA closure in newborn below 1500gr
A. Fraise (United Kingdom)

11:00 - 11:15

Intrapulmonary AVM: course of the disease and timing of embolization
I. Daehnert (Germany)

11:15 - 11:30

Coronary fistula: indication, technique and follow up
N.D. Tin (Vietnam)

LIVE CASES SAN DONATO and LEUVEN

12:30 - 13:00

Lunch

13:00 - 14:15

LUNCH SESSION 1: 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.K. 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 2: 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.K. Armstrong (USA)

13:45 - 14:00

Ethical considerations on fetal Interventions

G. Sharland (United Kingdom)

14:00 - 14:15

Discussion

13:00 - 14:15

LUNCH SESSION 3: PDA Stenting

Chairman: *M. Marasini (Italy)*

Panelists: *L.N. Benson (Canada), J.L. Zunzunegui Martinez (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)

13:00 - 14:15

LUNCH SESSION 4: Industry - Sponsored Symposium

14:30 - 16:30

PPVI IN CALCIFIED CONDUITS

Chairman: *P. Ewert (Germany)*

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

14:30 - 14:45

Different vascular access

J. Kreutzer (USA)

14:45 - 15:00

Coronary assessment

C.E. 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

- 16:30 - 17:00 **Coffee break**
- 17:00 - 18:45 **NEW DEVICES & TECHNIQUES**
Chairman: *S. Schievano (United Kingdom)*
Panelists: *C. Bussadori (Italy), G.J. Morgan (USA), P. Festa (Italy)*
- 17:00 - 17:15 **Unusual applications for interventional devices - versatility and lateral thinking!**
J. DeGiovanni (United Kingdom)
- 17:15 - 17:30 **Catheter interventions with MRI guidance in CHD**
A. Frigiola (United Kingdom)
- 17:30 - 17:45 **CardioMems device: heart failure management in CHD**
D.P. Berman (USA)
- 17:45 - 18:00 **Innovating the planning of CHD treatment**
E. Votta (Italy)
- 18:00 - 18:15 **Artificial Intelligence to detect heart failure**
A. Ludomirsky (USA)
- LIVE CASE SAN DONATO**
- 19:00 **Welcome Cocktail**

29 March 2019 XII INTERNATIONAL WORKSHOP ON INTERVENTIONAL PEDIATRIC AND ADULT CONGENITAL CARDIOLOGY AND ADVANCED 3D IMAGING FOR INTERVENTION

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. Sondergaard (Denmark)

08:15 - 08:30

Assessment of large RVOT

M. Al Jufan (Saudi Arabia)

08:30 - 08:45

Do we need to pre-stent?

E. Zahn (USA)

08:45 - 09:00

From "Russian doll" to bilateral valvulation

J.L. Zunzunegui Martinez (Spain)

LIVE CASES SAN DONATO and MUNICH

10:00 - 10:30

Coffee break

10:30 - 12:30

AORTIC VALVE AND ARCH DISEASE

Chairman: *A.K. Armstrong (USA)*

Panelists: *A. Moysich (Germany), C. Pedra (Brazil), 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

12:30 - 13:00

Lunch

13:00 - 14:15

LUNCH SESSION 1: RETRIEVAL AND RECRUITMENT TECHNIQUES

Chairman: *A.K. Cabalka (USA)*

Panelists: *B.V. Dalvi (India), A. Fraise (United Kingdom)*

13:00 - 13:15

ASD device retrieval

J.Y. Choi (South Korea)

13:15 - 13:30

PDA device retrieval

O. Stumper (United Kingdom)

13:30 - 13:45

Retrieval of misplaced stents

K. Sivakumaran (India)

13:45 - 14:00

Vessel occlusion: how to recanalize and recruit?

J. Kreutzer (USA)

14:00 - 14:15

Recruitment of occluded pulmonary arteries

G. Butera (United Kingdom)

13:00 - 14:15

LUNCH SESSION 2: 3DI3 IMAGING FOR INTERVENTIONS

Chairman: *P. Festa (Italy)*

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

13:00 - 13:15

Is 3DRA worth the effort and radiation?

F. Gutierrez-Larraya (Spain)

13:15 - 13:30

Cookbook

A.K. Armstrong (USA)

13:30 - 13:45

3D image fusion

S. Goreczny (Poland)

13:45 - 14:00

3DRA in complex PPVI

H. Breur (The Netherlands)

14:00 - 14:15

How the engineer can help

A. Redaelli (Italy)

- 14:30 - 16:30** **RVOT, Pulmonary Arteries and Veins**
Chairman: *R. Bokenkamp (The Netherlands)*
Panelists: *S. El Saiedi (Egypt), J. Kreutzer (USA), A. Giamberti (Italy)*
- 14:30 - 14:45** **Promote PA growth: RVOT versus PDA stenting**
L.N. Benson (Canada)
- 14:45 - 15:00** **RVOT stenting techniques and complications in the newborn**
A. Peirone (Argentina)
- 15:00 - 15:15** **Indication for LPA stenting after Switch**
G. J. Morgan (USA)
- 15:15 - 15:30** **How to treat pulmonary vein stenosis: balloons, stents...**
M.B.E. Schneider (Germany)
- LIVE CASES SAN DONATO and MUNICH**
- 16:30 - 17:00** **Coffee break**
- 17:00 - 18:20** **IPC AWARD - (Oral Communications - Not CME Accredited)**
Chairmen: *S. A. Qureshi (United Kingdom), M. Carminati (Italy)*
- LIVE CASE SAN DONATO**
- 18:20 - 18:50** **Lecture**
From hearts to violins to the concept of science and music
P. Bonhoeffer (Italy)
- 20:00** **Social Dinner**

30 March 2019 XII INTERNATIONAL WORKSHOP ON INTERVENTIONAL PEDIATRIC AND ADULT CONGENITAL CARDIOLOGY AND ADVANCED 3D IMAGING FOR INTERVENTION

08:00 - 10:00

AV VALVE-IN-VALVE

Chairman: *C. E. Ruiz (USA)*

Panelists: *A. Micheletti (Italy), E. M. 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.K. 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

10:00 - 10:30

Coffee break

10:30 - 12:15

SINGLE VENTRICLE STAGE I-III

Chairman: *D. Schranz (Germany)*

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

10:30 - 10:45

ProCon: CMR versus Cath to prepare for Glenn and Fontan

V. Muthurangu (United Kingdom)

10:45 - 11:00

ProCon: CATH versus CMR to prepare for Glenn and Fontan

O. Stumper (United Kingdom)

11:00 - 11:15

Fate of the Fontan connection: Interventional and Surgical results

D.J. Hagler (USA)

11:15 - 11:30

Interventions in critical Stage I with 3DRA guidance

D. P. Berman (USA)

11:30 - 11:45

Oval stenting of LPA: indication and procedure

G.J. Krings (The Netherlands)

LIVE CASE SAN DONATO

12:15 - 13:00

Lunch

13:00 - 14:15 LUNCH SESSION: UPDATE ON PERCUTANEOUS PULMONARY VALVES

Chairman: *G.J. Krings (The Netherlands)*
Panelists: *D. P. Berman (USA), K. P. Walsh (Ireland)*

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

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

14:15 - 16:00 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)*

14:15 - 14:30 Case 1
M. Marasini (Italy)

14:30 - 14:45 Case 2
I. Michel-Behnke (Austria)

14:45 - 15:00 Case 3
J. Thomson (United Kingdom)

15:00 - 15:15 Case 4
A. Celebi (Turkey)

15:15 - 15:30 Case 5
R. I. Rossi Filho (Brazil)

LIVE CASE SAN DONATO

16:00 - 16:30 Final remarks

GENERAL INFORMATION



SCIENTIFIC INFORMATION

All meeting rooms will be equipped with videoprojector and computer, every work will be transferred to the rooms via LAN directly from the Preview Room. To avoid incompatibility problems between speakers' computers and hall projectors and to speed up presentations, no personal connection will be allowed. Speakers are requested to kindly leave a copy of their presentation directly at the Preview Room, at least a couple of hours before their Presentation to enable technicians to set up the session sequence.

No private computer will be allowed in the hall.

For any special requirement, please, contact the Faculty Desk at the Secretariat.

Speakers are invited to be in the Room assigned for presentation at least 10 minutes before the beginning of the Session and to respect the timing assigned to each one. Chairs and Panelists shall arrive at least 15 minutes before the beginning of their session.

OFFICIAL LANGUAGE

English is the official language of the meeting.

ORAL COMMUNICATIONS

Among all abstract submitted, six works have been selected to be part of the Scientific Programme as oral presentations.

The six presenting authors have been granted a free registration to the IPC Workshop 2019 and they will participate in the evaluation of the best one, whose presenter will be offered access to the 2021 edition as part of the Faculty.

POSTER AREA

Posters will be displayed in the exhibition area.

Authors are required to be present in front of their Poster during coffee break.

CONGRESS VENUE

Crowne Plaza Linate
Via K. Adenauer, 3
20097 San Donato Milanese (MI, Italy)
Phone +39 02 516001

REGISTRATION DESK

The Organizing Secretariat will be available on site following the below schedule:

Wednesday, March 27	08.00 - 18.00
<i>(ONLY FOR AEPC PRE-COURSE PARTICIPANTS)</i>	
Thursday, March 28	07.30 - 18.45
Friday, March 29	07.30 - 19.00
Saturday, March 30	07.30 - 16.30

BADGE

Participants will receive their badge upon registration. This must always be worn to enter the Scientific Sessions and the congress venue.

NAME BADGES ARE DISTINGUISHED AS FOLLOWS:

Physicians	Transparent
Young/nurses/technicians AEPC Working Group members	Yellow
Invited Speakers and Chairpersons	Red
Exhibitors	Green

ATTENDANCE CERTIFICATE

Attendance certificates will be sent by e-mail the last day of the meeting.

Please check at the registration desk that we have the correct e-mail address.

ORGANIZING SECRETARIAT

AIM Group International



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UEMS/EACCME Accreditation

An application has been made to the EACCME® for CME accreditation of this event

REGISTRATION FEES

Registration Fees (Euro, VAT 22% included)

Physicians*	€ 600,00
Nurses & technicians/ Young/ AEPC Working Group of Interventional Cardiology *	€ 400,00
Poster presenters *	€ 250,00
Social dinner	€ 50,00

* Registration Fees include: admission to the scientific sessions, entrance to exhibition area, congress kit, access to proceedings on the congress web site, coffee break and lunch, CME credits (except for fellows, residents, nurses and technicians, exhibitors)

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

PAYMENT METHODS

- By Cash (Euro) up to 999,99 €
- By Credit card (American Express, VISA, Eurocard/Mastercard)

COFFEE BREAK AND LUNCH

Box lunch and coffee break will be served in the Exhibition Area:

Wednesday March 27 (AEPIC PRE-COURSE ONLY)	Coffee Break 10:30 - 11:00	Lunch 12:40 - 13:40	Coffee Break
Thursday, March 28	10:00 - 10:30	12:30 - 13:00	16:30 - 17:00
Friday, March 29	10:00 - 10:30	12:30 - 13:00	16:30 - 17:00
Saturday, March 30	10:00 - 10:30	12:15 - 13:00	

EXHIBITION

Exhibition Area will be open throughout the Meeting with the following timetable:

Thursday, March 28	08:00 - 18.30
Friday, March 29	08:00 - 18.30
Saturday, March 30	08:30 - 16.00

WI-FI SERVICE

Crowne Plaza Linate offers to all participants accommodated into the venue a free wi-fi password for the whole duration of the IPC Workshop. Don't forget to ask for your card when checking in!

SHUTTLE SERVICES

Crowne Plaza Linate offers a free shuttle service to/from the Hotel to/from underground station SAN DONATO and LINATE Airport. Please check the timetable with the Hotel Reception.

INSURANCE

Meeting organizers cannot accept liability for personal injuries or for damage or loss of property belonging to participants, either during or as a result of the Meeting. Please check the validity of your own insurance.



ELECTRICITY

Voltage is 220V AC, 50Hz. Plugs have two or three round pins. Foreign voltage could require an adapter

IPC WORKSHOP WEBSITE

IPC Workshop is very proud to have its own website www.workshopipc.com. We strongly invite you to support the website consulting all the contents: live cases, presentations and all scientific contributions are video-recorded and published for everybody to learn upon.