



# Agenda

## AEPC Business Meeting

Thursday March 30, 2017 09.00-10.30  
Convention Centre - Pasteur Amphitheatre

1. Welcome Address by the President
2. Obituary
3. Report of the President
4. Report of the Secretary-General
5. Report of the Scientific Secretary
6. Report of the Treasurer
7. News from the Working groups
  - Coding Committee
  - Cardiac Dysrhythmia and Electrophysiology
  - Fetal Cardiology
  - Genetics, Basic Science and Inherited Muscle Disease
  - Paediatric Cardiovascular Intensive Care
  - Cardiac Imaging
  - Interventional Cardiology
  - Cardiovascular Morphology
  - Congenital Heart Surgery
  - Psycho-Social Care from Fetus to Adult
  - GUCH Task Force
  - Preventive Cardiology
  - Pulmonary Hypertension and Heart Failure
  - Junior members
  - Nursing and Allied Health Professionals
  - Report from the Advisory Board/National delegates
8. Report from the Educational Committee
9. Introduction of new members
10. Replacement of council members
11. Future Meetings
  - 2018 Athens
  - 2019 Sevilla
  - 2020 Gothenburg/Lund
12. Opening of the bids for the 2021 Annual Meeting
13. Other business
14. The meeting ends



*51st Annual Meeting of the  
Association for European Paediatric  
and Congenital Cardiology (AEPC)*

**SCIENTIFIC PROGRAMME**

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**We 29. Mar 2017**

We 08:00-10:30 Update Course: Inherited Cardiac Diseases (I): Inherited arrhythmia syndromes and sudden cardiac death in children  
**Lumière Auditorium** *Chair: Maltret Alice (Paris, FR), Kriebel Thomas (Westpfalz, GE)*

08:00 Introduction Genetic testing in inherited heart disease  
*Bouvagnet Patrice*

**Inherited arrhythmia syndromes and sudden cardiac death in children**

08:15 Epidemiology of Sudden death in Children  
*Oberhoffer Renate*

08:30 Screening programmes for prevention of Sudden cardiac death in children  
*Jokinen Eero*

08:50 Psychosocial impact of genetic testing and cascade screening  
*Vears Danya*

09:10 CPVT: diagnosis and (new) treatment options for a highly malignant arrhythmia  
*Paul Thomas*

09:30 Hear hoofbeats ? Think Zebras : the rare inherited arrhythmia (SQTS, Timothy syndrome, Andersen early repolarization)  
*Brugada Georgia*

09:50 When to implant ICDs in inherited arrhythmias syndromes  
*Gebauer Roman*

10:10 LQTS : mutation and gene specific risk stratification and treatment  
*Blom Nico*

**We 08:30-10:00** **SAC meeting**  
**Rhône 1**

**We 11:00-13:00** **Update Course: Inherited Cardiac Diseases (II): Inherited cardiomyopathies**  
**Lumière Auditorium** *Chair: Di Filippo Sylvie (Lyon FR), Hanseus Katarina (Lund, SWE)*

11:00 How to interpret genetic screening results in inherited cardiac diseases  
*Van Spaendonk Karin*

11:20 Risk stratification in hypertrophic cardiomyopathy: phenotype, genotype or both  
*Wolf Cordula*

11:40 Dilated cardiomyopathy in children: diagnostic work-up and treatment  
*Reinhardt Zdenka*

12:00 The role of MRI in diagnosis and risk stratification in inherited cardiomyopathies  
*Valsangiacomo Emmanuela*

12:20 Children and adolescents with suspected myocarditis: insights from the MYKKE multi-center registry  
*Schubert Stephan*

12:40 Left ventricular noncompaction: is it a distinct cardiomyopathy?  
*Angelini Annalisa*

**We 11:30-13:00** **National delegates meeting & PAC meeting**  
**Rhône 1**

**We 14:00-15:30** **Update Course: Inherited Cardiac Diseases (III): Marfan Syndrome and Congenital Heart Diseases**  
**Lumière Auditorium** *Chair: Milanese Ornella (Padova IT), Bartelds Beatrijs (Erasmus, NL)*

14:00 Cascade screening of inherited cardiac diseases (general review for different disease, how to organize, when to screen children testing in children (general review)  
*Kaski Juan*

**Marfan syndrome**

14:20 The phenotype-genotype correlation in Marfan syndrome  
*De Backer Julie*

14:40 Aortic root surgery in paediatric Marfan patients : why, when and how  
*Hazekamp Mark*

15:00 **Lecture : Genetics in Congenital Heart Disease**

*Bouvagnet Patrice*

**We 14:00-15:30**  
**Rhône 1**  
**Educational Committee meeting**

**We 16:00-16:30**  
**Mannheimer Lecture \_\_\_\_\_ A.E.P.C.: A milestone in Pediatric Cardiology History**

**Lumière Auditorium**  
16:00 A.E.P.C. : A milestone in Pediatric Cardiology History  
*Bozio Andre*

**We 16:30-18:00**  
**Lumière Auditorium**  
**Opening Ceremony**

**We 18:00-20:00**  
**Forum 2**  
**RECEPTION**

**Th 30. Mar 2017**

**Th 08:00-09:00**  
**Pasteur Amphitheatre**  
**Fetal WG business meeting**

**Th 08:00-09:00**  
**Pasteur Lounge**  
**Dysrhythmias WG business meeting**

**Th 08:00-09:00**  
**Rhône 1**  
**Interventional WG business meeting**

**Th 08:00-09:00**  
**Rhône 2**  
**Imaging WG business meeting**

**Th 08:00-09:00**  
**Rhône 3**  
**PH-HF WG business meeting**

**Th 08:00-09:00**  
**St Clair 3**  
**Morphology WG business meeting**

**Th 09:00-10:30**  
**Pasteur Amphitheatre**  
**AEPC Business Meeting**

**Th 11:30-13:00**  
**Lumière Auditorium**  
**Impact of a congenital heart disease on neurodevelopmental outcome and daily life**  
*Chair: De Groote Katya (Ghent, BE), Amedro Pascal (Montpellier, Fr)*

11:30 State of the Art : Neurodevelopmental outcome after cardiac surgery in infancy  
*Hövels-Gürich Hedwig*

12:00 The impact of cardiomyopathy on a child and its family  
*Michiel Dalinghaus*

12:20 The impact of Congenital Heart Disease on a family's life  
*Casey Frank*

12:40 View from the French parents organization  
*Masseron Marie-Paule*

**Th 11:30-13:00**  
**Pasteur Amphitheatre**  
**Arrhythmia challenges: Improve your ECG skills – an interactive session**  
*Chair: Happonen Juha-Matti (Helsinki, Fi), Hebe Joachim (Hamburg, GE)*

11:30 Cases presentation-I  
*Hebe Joachim*

12:15 Cases presentation-II  
*Happonen Juha-Matti*

**Th 11:30-13:00**  
**Pasteur Lounge**  
**Abstract Session 1: Adult congenital heart disease**  
*Chair: Eicken Andreas (Munich, GE), Roubertie François (Bordeaux, FR)*

- 11:30 O1-1 Right ventricular electrical activation in patients with repaired tetralogy of Fallot : insights from electro-anatomic mapping and MRI  
*Fournier E., Jalal Z., Sacher F., Bordachar P., Derval N., Cochet H., Teijeira Fernandez E., Haissaguerre M., Iriart X., Thambo JB*
- 11:45 O1-2 Long-term outcomes and prognosis of patients with isolated corrected Transposition of the Great Arteries  
*Chabchoub S., Bozio A., Bakloul M., Martin-Bonnet C., Perouse de Monclos T., Ducreux C., Veyrier M., Di Filippo S.*
- 12:00 O1-3 Cardiac morbidity and mortality in patients with RASopathy syndrome: an european multi centric study  
*Calcagni G., Limongelli G., D'Ambrosio A., Gesualdo F., Digilio M.C., Baban A., Albanese S.B., Versacci P., De Luca E., Ferrero G.B., Agnoletti G., Baldassarre G., Banaudi E., Marek J., Kaski J.P., Tuo G., Russo M.G., Pacileo G., Milanese O., Messina D., Marasini M., Cairello F., Formigari R., Brighenti M., Dallapiccola B., Tartaglia M., Marino B.*
- 12:15 O1-4 Characteristics and outcomes of heart failure-related hospitalization in adults with congenital heart disease  
*Ladouceur M., Karsenty C., Pontnau F., Ben Moussa N., Malekzadeh-Milani S., Boudjemline Y., Legendre A., Iserin L., Bonnet D.*
- 12:30 O1-5 NYHA classification in adults with congenital heart disease: Relation to objective measures of exercise and outcomes  
*Bredy C., Ministeri M., Kempny A., Alonso-Gonzalez R., Swan L., Uebing A., Diller G., Gatzoulis M.A., Dimopoulos K.*
- 12:45 O1-6 Chronic Kidney Disease in Adolescents with Congenital Heart Disease  
*Bojan M., Mirabile C., Pieroni L., Froissart M., Bonnet D.*

**Th 11:30-13:00**  
**Rhône 1**

**All about Devices in Congenital Heart Diseases interventions**

*Chair:* Walsh Kevin (Dublin, IR), Boshoff Derize (Leuven, BE)

- 11:30 Are all ASD devices equal ?-how to decide what to implant  
*Thompson John*
- 11:48 Absorbable and drug eluting stents useful in CHD - What is on the horizon ?  
*Ewert Peter*
- 12:06 Challenging PDA - Device options in the preterm and in the elderly  
*Michel-Behnke Ina*
- 12:24 Stenting Coarctation of the aorta in infancy - are there limits in times of breaking stents  
*Boshoff Derize*
- 12:42 Anticoagulation and NOACS after insertion of stents and occlusion devices - time for guidelines in Congenital Heart Diseases?  
*Sondergaard Lars*

**Th 11:30-13:00**

**3D printing of Congenital Heart Disease - Current progress: implementation in clinical practice and education**

*Chair:* Greil Gerald (Dallas, USA), Hazekamp Mark (Amsterdam, NL)

- 11:30 Getting ready for 3D printing: Image acquisition  
*Roest Arno*
- 11:45 Processing of the images-Segmentation of echo, CT and MRI  
*Pushparajah Kuberan*
- 12:00 3D printing for interventional planning  
*Valverde Israel*
- 12:15 3D printing for surgical planning  
*Sarris George*
- 12:30 3D printing for education of patients with Congenital Heart Disease  
*Jongbloed Monique*
- 12:45 3D printing for teaching clinicians; summary AEPC junior Grant 2015  
*Velasco Mari Nieves*

**Th 11:30-13:00**  
**Rhône 3**

**Pharmacotherapy of the critically ill patient with Pulmonary Hypertension**

*Chair:* Berger Felix (Berlin, GE), Hansmann Georg (Hannover, GE)

- 11:30 Parenteral prostacycline analogue therapy in children with Pulmonary Hypertension  
*Levy Marilyne*
- 11:50 Experience from GOSH on novel oral PAH therapies in the youth  
*Moledina Shahin*
- 12:10 Experience from Paris on novel oral PAH therapies in the youth  
*Bonnet Damien*
- 12:30 Keynote Lecture: UK consortium on PAH genetics: First Results of whole genome sequencing in 1000 IPAH patients.  
*Morrell Nicholas*

- Th 11:30-13:00**  
**St Clair 3**
- Trials in Congenital Heart Diseases**  
*Chair:* Bartelds Beatrijs (Erasmus, NL), Odermarsky Michal (Karlskrona, SWE)
- 11:30 Overview of some 'landmark trials', trial design  
*Bonnet Damien*
- 11:52 Use of big data approaches to analyze prospective data  
*Marelli Ariane J*
- 12:14 Trial design and pitfalls in pediatrics  
*Berger Rolf M.*
- 12:36 Challenges in Pediatric cardiovascular drug development and research  
*Laër Stephanie*
- Th 13:00-14:00**  
**Pasteur Lounge**
- LUNCH SYMPOSIUM: Respiratory Syncytial Virus in the Pediatric patient with Congenital Heart Disease**
- Th 13:00-14:00**  
**Rhône 1**
- Juniors Session 1**  
*Chair:* Roest Arno (Leiden, NL)
- Th 13:30-14:00**  
**Lumière Auditorium**
- Lecture: Rheumatic fever, early diagnosis in developing countries**
- Th 14:00-15:30**  
**Lumière Auditorium**
- Fetal Magnetic Resonance Imaging in Congenital Heart Diseases - insight in fetal cardiac hemodynamics and morphology and brain development**  
*Chair:* Di Filippo Sylvie (Lyon, FR), Simpson John (London, UK)
- 14:00 Overview of fetal cardiac hemodynamics & changing hemodynamics in left sided hypoplasia  
*Seed Mike*
- 14:30 Fetal MRI for detection of morphology in Congenital Heart Diseases  
*Pushparajah Kuberan*
- 14:45 Echocardiographic and Doppler changes of fetal circulation on acute and chronic hyperoxygenation  
*Enzensberger Christian*
- 15:00 Findings on fetal cardiac and cerebral MRI on hyperoxygenation  
*Seed Mike*
- 15:15 Fetal Hyperoxygenation, brain development and neurooutcome in CHD - is there a chance for improvement?  
*Hövels-Gürich Hedwig*
- Th 14:00-15:30**  
**Pasteur Amphitheatre**
- Joint Session AEPC-Canadian Society : Novelties and future of pacemakers in children and patients with congenital heart disease**  
*Chair:* Fournier Anne (Montreal, CA), Happonen Juha-Matti (Helsinki, FI)
- 14:00 Lead-less pacing and defibrillators in the pediatric population and in patients with congenital heart disease  
*Mondesert Blandine*
- 14:22 Defibrillation threshold in pediatric patients, a necessity?  
*Escudero Carolina*
- 14:44 Endovenous pacing in pediatric patients, when to consider, age? weight? never?  
*Silvetti Massimo Stefano*
- 15:06 Resynchronization therapy in patients with congenital heart disease, where do we stand in 2017?  
*Janousek Jan*
- Th 14:00-15:30**  
**Pasteur Lounge**
- Aortic Coarctation: Morphology predicting outcomes in Adulthood**  
*Chair:* Eicken Andreas (Munich, GE), Michel-Behnke Ina (Vienna, AU)
- 14:00 Patho-Anatomy of Coarctation of the aorta  
*Jongbloed Monique*
- 14:18 Coarctation of the Aorta and Associated Syndromes  
*Bartelds Beatrijs*
- 14:36 Imaging of the Aorta from Infancy to Adulthood  
*Greil Gerald*
- 14:54 Outcome of Coarctation of the aorta in adults  
*Witseburg Maarten*
- 15:12 Complex Coarctation / Re-Coarctation and Hybrid approach  
*Chessa Massimo*
- Th 14:00-15:30**  
**Rhône 1**
- Abstract Session 2: Interventional Cardiology I**  
*Chair:* Thomson John (Leeds, UK), Lucron Hugues (Fort de France, FR)
- 14:00 O2-1 Covered versus base stent for the treatment of aortic coarctation: systematic review of currently available clinical evidence.  
*Butera G., Faccini A., Lunardini A., Piazza L., Chessa M., Fesslova V., Carminati M.*

- 14:15 O2-2 Results of transcatheter pulmonary valvulation in children < 30 kg.  
*Sobrinó Baladrón A., Rodríguez Ogando A., Ballesteros Saturnino F., Gil Jaurena J.M., Zunzunegui Martínez J.L.*
- 14:30 O2-3 Successful creation of an ovine pulmonary stenosis-regurgitation model simulating a Tetralogy of Fallot  
*Cools B., Claus P., Van Puyvelde J., Gewillig M., Rega F.*
- 14:45 O2-4 The Melody™ valved stent: up to 10 years of experience  
*Cools B., Budts W., Boshoff D., Heying R., Vanagt W., Troost E., Frerich S., Gewillig M.*
- 15:00 O2-5 Unusual Techniques for Percutaneous Pulmonary Valve Replacement using the Melody valve.  
*Godart F., Houeijeh A., Guillaume M.P., Gras P., Domanski O*
- 15:15 O2-6 Endocarditis risk following percutaneous pulmonary valve implantation is higher with Melody valve compared to Sapien valve.  
*Hascoet S., Mauri L., Claude C., Fournier E., Horer J., Brenot P., Riou J.Y., Petit J.*

**Th 14:00-15:30**  
**Rhône 2**

**Moderated Posters 1**

*Chair:* Bharucha Tara (Southampton, UK), Joly Hervé (Lyon, FR)

- MP1-1 Screening newborns for congenital heart disease using echocardiography at high altitude in China  
*Li J., Qi H., Xie S., Li J., Dai T., Chen H.*
- MP1-2 Beyond aortic dilatation - Positive effect of angiotensin II receptor blockers on mitral valve prolapse in a retrospective analysis of pediatric patients with Marfan syndrome  
*Olfe J., Pesch J., Mueller G.C., Seggewies F., Stark V., Kozlik-Feldmann R., Mir T.S.*
- MP1-3 Cardiopulmonary exercise test (CPET) and dobutamine stress cardiac magnetic resonance imaging (CMR) in young adults after neonatal arterial switch operation (ASO) in transposition of the great arteries (TGA)  
*Hövels-Gürich H., Hamada S., Kirschfink A., Mühler E., Kerst G., Marx N., Frick M.*
- MP1-4 Safety And Short-Term Efficacy Of Transition From Bosentan To Macitentan In Patients With Pulmonary Arterial Hypertension: Preliminary Results  
*Aypar E., Alehan D.*
- MP1-5 Out of hospital cardiac arrest and cardiopulmonary resuscitation in children with congenital heart defects  
*Holmström H., Jortveit J., Eskedal L., Døhlen G., Birkeland S.*
- MP1-6 Long-term follow-up after catheter ablation of accessory pathways in children  
*Backhoff D., Klehs S., Müller M.J., Schneider H.E., Paul T., Krause U.*
- MP1-7 Pediatric patients with KCNJ2 mutations: wide clinical spectrum in a special disorder  
*Zambrano M.D., Cesar S., Carro E., Campuzano O., Maya K., Viadero M.T., Alegria I., Sanchez-de-Toledo J., Brugada J., Sarquella-Brugada G.*
- MP1-8 First data of the RIKADA study: risk stratification of children and adolescents with primary cardiomyopathies  
*Degener F., Al-Wakeel-Marquard N., Schmitt B., Kelm M., Kühne T., Berger F., Messroghli D., Klaassen S.*
- MP1-9 Left ventricular apical pacing in children – feasibility and long-term effect on ventricular function  
*Kovanda J., Janousek J., Lozek M., Kubus P.*
- MP1-10 Update on baseline data and first 1-year follow-up from the German multi-centre myocarditis registry in pediatric patients: “MYKKE”.  
*Degener, F., Opgen-Rhein B., Schmidt F., Weigelt A., Wagner R., Müller G., Rentzsch A., Racolta A., Papakostas K., Wiegand G., Ruf B., Hannes T., Reineker K., Kiski D., Khalil M., Fischer M., Steinmetz M., Fischer G., Pickardt T., Messroghli D., Schubert S. [on behalf of the MYKKE consortium]*
- MP1-11 Long-term follow up of bradi-arrhythmias after surgical correction of atrioventricular septal defects in a single-center registry of 551 children: Down syndrome is a risk factor or not?  
*Calvieri C., Di Mambro C., Silvetti M.S., Tamburri I., Zannoni S., Placidi S., Albanese S., Brancaccio G., Carotti A., Iorio F.S., Drago F.*
- MP1-12 Mechanisms underlying abnormal cardiorespiratory response in Fontan patients  
*Domanski O., Houeijeh A., Guillaume M.P., Gras P., Recher M., Bonnet M., Matran R., Godart F.*
- MP1-13 Significant Diameter Heterogeneity Between Aortic Root and Aortic Annulus in Bicuspid Aortic Valve  
*Fournier A., Meloche-Dumas L., Dallaire F., Blais S., Dahdah N.*
- MP1-14 Late Enlargement of Radiofrequency Lesions in Children: This is really truth?  
*Melo S., Pisani C., Miura N., Rochite C., Scanavacca M.*
- MP1-15 Normal values of the pediatric ECG/VCG with a focus on the ventricular gradient and QRST-angle  
*Kamphuis V.P., Blom N.A., Ten Harkel A.D.J., Van Zwet E.W., Man S., Maan A.C., Swenne C.A.*

- MP1-16 Outcome of bioprosthetic valves in pulmonary position implanted for reconstruction of the right ventricular outflow tract in adults with congenital heart disease  
*Poruban R., Gebauer R., Popelová J., Timko F., Slezáková D., Skalský I., Janoušek J.*
- MP1-17 Right ventricular diastolic dysfunction in pediatric patients with ventricular pre-excitation  
*Khamnagadaev I.A., Termosesov S.A., Kokov L.S., Shkolnikova M.A., Garipov R.S., Volkova Y.Y., Ilich I.L.*
- MP1-18 Failing Right Ventricle in Hypoplastic Left Heart Syndrome: myofiber architecture reconstruction by Diffusion-Weighted Magnetic Resonance Imaging  
*Campanale C.M., Scherrer B., Afacan O., Majeed A., Singh J., Warfield S., Sanders S.P.*
- MP1-19 Takotsubo Cardiomyopathy in a woman with Pulmonary Atresia, Ventricular Septal Defect, and Major Aorto-Pulmonary Collateral Arteries  
*Parrella C., Oreto L., Chinali M., Valenti V., D'Anna C., Lumia F., Iacomino M., Leonardi B., Del Mastro A., Ricci R., Drago F.*
- MP1-20 Clinical, neurohormonal and psychological characteristics predict on a long-term basis, adverse cardiac events in patients with congenital heart defects  
*Kourkoveili P., Apostolopoulou S., Kiaffas M., Moutsou A., Rammos S.*
- Th 14:00-15:30 Rhône 3**  
**Abstract Session 3: Surgery and Intensive Care**  
*Chair:* Bennink Gerardus (Cologne,GE), Sanchez de Toledo Joan (Pittsburgh, USA)
- 14:00 O3-1 Minimum acceptable oxygen delivery during cardiopulmonary bypass in neonates  
*Di Corte F., Gioia E., Mirabile C., Barbanti C., Pouard P., Bojan M.*
- 14:15 O3-2 Impact of Cardiopulmonary Bypass Time on Motor Development in Children and Adolescents with Congenital Heart Disease  
*Häcker A.-L., Reiner B., Weberruss H., Hager A., Oberhoffer R., Ewert P., Müller J.*
- 14:30 O3-3 New insight in edema formation after Fontan surgery; the contribution of osmotic pressure in plasma and interstitium  
*Indrebø M.M., Berg A., Guthe H.J.T., Holmstrøm H., Wiik H., Norgård G.*
- 14:45 O3-4 Surgical Outcome Of Atrioventricular Valve Replacement For Children With A Functional Single Ventricle  
*Ide Y., Murata M., Ito H., Kanno K., Imai K., Ishido M., Fukuba R., Sakamoto K.*
- 15:00 O3-5 Outcomes of Modified Konno Procedure in Obstructive Hypertrophic Cardiomyopathy in Children  
*Laredo M., Khraiche D., Raisky O., Bonnet D., Vouhe P.R.*
- 15:15 O3-6 Recurrent Coarctation after Surgical Repair for Coarctation of the Aorta- A-15 Year Retrospective Study  
*Hansson K., Malm T., Johansson Ramgren J., Liuba P.*
- Th 14:00-15:30 St Clair 3**  
**Morphological demonstration I : Morphology of Ventricular Septal Defects**  
*Chair:* Kolesnik Adam (Warsaw, PO), Gittenberger-de Groot Adriana (Leiden, NL)
- 14:00 Morphology of ventricular septal defects: cases-II  
*Angelini Annalisa*
- 14:45 Morphology of ventricular septal defects: cases-I  
*Houyel Lucille*
- Th 16:30-18:00 Lumière Auditorium**  
**Abstract Session 4: Imaging I**  
*Chair:* Milanesi Ornella (Padua, IT), Warin-Fresse Karine (Nantes, FR)
- 16:30 O4-1 Echocardiographic Nomograms for Upper Abdominal Aorta Pulsed-Doppler Parameters and Size in Healthy Caucasian Children.  
*Cantinotti M., Franchi E., Scalese M., Viacava C., Assanta N., Crocetti M., Marotta M., Kutty S., Spadoni I.*
- 16:45 O4-2 Prognostic Potentialities of Lung Ultrasound Findings in Children Undergoing Cardiac Surgery for Congenital Heart Disease  
*Cantinotti M., Franchi E., Scalese M., Giordano R., Melo M., Remoli E., Clemente A., Haxiademi D., Moschetti R., Ait Ali L.*
- 17:00 O4-3 Giant aneurysms: a gender-specific complication of Kawasaki disease?  
*Kuipers I.M., Dietz S.M., Kuipers I.M., Tacke C.E.A., Koole J.C.D., Hutten B.A., Kuijpers T.W.*
- 17:15 O4-4 Regression and complications of z-score based giant aneurysms in a Dutch cohort of Kawasaki disease patients  
*Kuipers I.M., Dietz S.M., Kuipers I.M., Koole J.C.D., Breur J.M.P.J., Fejzic Z., Frerich S., Dalinghaus M., Roest A.A.W., Hutten B.A., Kuijpers T.W.*
- 17:30 O4-5 How long does it take for coronary artery aneurysms to resolve after Kawasaki disease?  
*Hillary C., Jaber D., Khader Y., Tulloh R.M.R.*
- 17:45 O4-6 Echocardiographic predictors of survival in paediatric pulmonary hypertension  
*Lammers A.E., Diller G.P., Haworth S.G., Marek J., Moledina S.*
- Th 16:30-18:00 Pasteur Amphitheatre**  
**Abstract Session 5: Electrophysiology I**  
*Chair:* Gonzalez Maria Cecilia (Leuven, BE), Paul Thomas (Gottingen, GE)

- 16:30 O5-1 Long-term outcome of patients with congenital heart disease undergoing cardiac resynchronization therapy  
*Kubus P., Rubáčková Popelová J., Kovanda J., Sedláček K., Janoušek J.*
- 16:45 O5-2 Use of implantable loop recorders in children with syncope  
*Polyakova E., Trofimova T., Shkolnikova M.*
- 17:00 O5-3 Evaluation of implantable cardioverter defibrillator therapy in preventing sudden cardiac death in paediatric patients in the Netherlands  
*Nanhekhan D.F.F., Kammeraad J.A.E., Blom N.A., Van de Heuvel F., Blank C., Reimer A., Clur S.A., Rammeloo L.A.J., Ten Harkel A.D.J.*
- 17:15 O5-4 s-ICD implantation in the young: low BMI as a predictor of surgical complications.  
*Pazzano V., Silvetti M.S., Verticelli L., Battipaglia I., Grifoni G., Saputo F.A., Remoli R., Drago F.*
- 17:30 O5-5 Infants and Small Childrens with the Extracardiac Implantable Cardioverter-Defibrillator - One Decade of Experience  
*Müller M.J., Backhoff D., Willberg J., Schneider H.E., Paul T., Krause U.*
- 17:45 O5-6 Efficacy of a modified ICD insertion technique in children in protecting against sudden cardiac death  
*Dave H., Balmer C., Podonyi A., Schmiady M., Weber R., Schweiger M., Huebler M.*

**Th 16:30-18:00  
Pasteur Lounge**

**Moderated Posters 2**

*Chair:* Plunichotta Francesca (Milan, IT), Thambo Jean Benoit (Bordeaux, FR)

- MP2-1 Do self- and proxy-reports of cognitive problems reflect intellectual functioning in children and adolescents with congenital heart defects?  
*Buratti S., Ryberg C., Broberg M., Sunnegårdh J.*
- MP2-2 Are Adults with Congenital Heart Defects adequately supplied in Medical Care?  
*Oberhoffer R., Neidenbach R., Pieper L., Sanftenberg L., Schelling J., Lang N., Trepakov A., Nagdyman N., Ewert P., Kaemmerer H.*
- MP2-3 4D-Flow-MRI in patients with Fontan circulation for evaluation of pulmonary artery blood distribution  
*Lehner A., Ulrich S., Fernandez Rodriguez S., Dalla-Pozza R., Fischer M., Haas N., Kramer H., Curta A.*
- MP2-4 Echocardiographic prevalence of cardiac malpositions, at birth and in children 5-15 years: Data from two large cross sectional observational studies.  
*Saxena A., Ramakrishnan S., Roy A., Juneja R.*
- MP2-5 Improving continuity of care : Can a multidisciplinary approach and a pharmaceutical network improve discharge prescriptions for congenital heart disease patients?  
*Volpi E., Laws E., Baratta S., Tonazzini S., Alduini S., Zizevskikh M., Da Valle P., Donnini D., Baroni M., Assanta N., Biagini S.*
- MP2-6 Three Dimensional Printed Models For Surgical Planning Of Complex Congenital Heart Defects: An International Multicenter Study  
*Valverde I., Gomez G., Hussain T., Suarez-Mejias C., Velasco M.N., Byrne N., Ordoñez A., Gonzalez-Calle A., Anderson D., Hazekamp M.G., Roest A.A.W., Rivas J., Uribe S., El-Rassi I., Simpson J., Miller O., Ruiz E., Zabala I., Mendez A., Gallego P., Manso B., Prada F., Cantinotti M., Ait-Ali M., Merino C., Parry A., Poirier N., Greil G., Razavi R., Gomez-Cia T., Hosseinpour A.R.*
- MP2-7 Carotid Intima Media Thickness and Arterial Stiffness in Smoking and Passive Smoking Children  
*Kilic Z., Bozdog O., Karabel D., Yildirim A., Canik A., Alatas O., Musmul A., Ucar B.*
- MP2-8 Non-invasive assessment of arterial function in overweight and obese children and adolescents  
*Jakab A.E., Hidvégi E.V., Illyés M., Cziráki A., Bereczki Cs*
- MP2-9 Clinical accuracy of annual cardiac computed tomography angiography to predict coronary event in adult and pediatric heart transplant recipients.  
*Guillard O., Rohnean A., Tô N.T., Paul J.F., Houyel L.*
- MP2-10 The efficacy of prenatal and postnatal screening for critical congenital heart defects  
*Narayan I.C., Duineveld M.D., Haak M.C., Clur S.A., Blom N.A.*
- MP2-11 Coronary artery variants/anomalies in patients with tetralogy of Fallot: should we look more carefully?  
A retrospective study of 226 Egyptian patients (A single centre experience)  
*Abd El-Naby A., Mahrous M., Elsayed Ahmed A., Ali N., El Mozy W., Kharabish A., Romeih S.*
- MP2-12 Cardiopulmonary exercise test among children with congenital heart diseases : a multicenter study  
*Amedro P., Gavotto A., Guillaumont S., Picot M.C., Matecki S.*
- MP2-13 Risk of significant pulmonary regurgitation after percutaneous balloon valvuloplasty for congenital pulmonary stenosis in long-term follow-up  
*Meyer-Szary J., Sabiniewicz R., Dorniak K., Kwiatkowska J.*
- MP2-14 Chest pain in the pediatric emergency department: can we improve management?  
*Ovaert C., Gallucci L., Mancini J., Bremond V., Bresson V., Pailhous S., Moreau E., Boutin A.*



- MP2-15 Stereological analysis of mitochondria in hypertrophic cardiomyopathy - A proposal for pathological diagnostic criteria of mitochondrial cardiomyopathy  
*Takeda A., Yamazawa H., Izumi G., Sasaki O., Abe J., Sasaki D.*
- MP2-16 Multi-parametric echocardiographic assessment for preoperative decision making in surgical treatment of atrioventricular septal defect.  
*Schleiger A., Buracionok J., Miera O., Schmitt K.B., Yigitbasi M., Berger F., Ovroutski S.*
- MP2-17 Early Detection Of Myocardial Dysfunction After Anthracycline Treatment in Asymptomatic Pediatric Cancer Patients: Comparison Of Left Ventricular Global Strain Measured With Triplane and 2D Speckle Tracking  
*Cilsal E., Oguz A.D., Tunaoglu F.S.T., Kula S.*
- MP2-18 Novel Method for the Definition of Left Ventricular Hypertrophy Improves Identification of Impaired Cardiac Mechanics in Children with CKD: a 2D Echocardiography Strain Study  
*Chinali M., Matteucci M.C., Esposito C., Doyon A., Franceschini A., Del Pasqua A., Iacomino M., Schaefer F., Emma F., Rinelli G., Drago F.*
- MP2-19 Sudden death of patients with Kawasaki disease under school supervision in last 30 years  
*Ayusawa M., Kato M., Watanabe H., Komori A., Abe Y., Nakamura T., Jinbo S., Kamiyama H.*
- MP2-20 Paediatric catheterization X-ray exposure reference doses: a single centre experience  
*Padrini M., Baffoni L., Castaldi B., Bordin G., Maschietto N., Riccardi L., Paiusco M., Milanese O.*

**Th 16:30-18:00****Joint Session AEPC-JSPCCS: Multicenter Registries in Paediatric and Congenital Heart Diseases****Rhône 1***Chair:* Berger Felix (Berlin, GE), Yasukochi Satoshi (Nagano, JA)

- 16:30 Genetics of congenital heart disease in Japan  
*Yamagishi Hiroyuki*
- 16:52 The ECHSA database for the surgical outcomes of patients with congenital heart disease  
*Ebels Tjark*
- 17:14 The Zebra's in pediatric cardiology: a national registry for rare cardiac diseases in children  
*Ichida Fukiko*
- 17:36 Outcomes of catheter interventions : what have we learnt from the UK Central Cardiac Audit Database  
*Franklin Rodney*

**Th 16:30-18:00****Nurses Abstracts Session****Rhône 2***Chair:* Goossens Eva (Leuven, BE), Bratt Ewa-Lena (Gothenburg, SWE)

- ON-1 Educational involvement of nursing staff in a medical charity mission  
*Laciaková L., Blaškovanová N., Tláskal T.*
- ON-3 Living With Fontan circulation- alive, active and happy? Adolescents and young adults experiences of their overall life situation.  
*Berghammer M., Rydberg A., Ekman I., Hanseus K., Karlsson J.*

**Th 16:30-18:00****Abstract Session 6: Functional Assessment****Rhône 3***Chair:* Hanseus Katarina (Lund, SWE), Bonnemains Laurent (Strasbourg, FR)

- 16:30 O6-1 Towards Non-Invasive Assessment of Central Venous Pressure Variations using Real Time and Quantitative Liver Stiffness Estimation  
*Villemain O., Sitefane F., Pernot M., Malekzadeh-Milani S., Tanter M., Bonnet D., Boudjemline Y.*
- 16:45 O6-2 Reduced heart rate reserve in Fontan patients: chronotropic incompetence or chronotropic protection?  
*Eyskens B., Cools B., Claessen G., La Gerche A., Van De Bruaene A., Heying R., Roggen M., Bogaert J., Claus P., Budts W., Heidebuchel H., Gewillig M.*
- 17:00 O6-3 Carotid intima-media thickness in children with congenital heart disease  
*Reiner B., Oberhoffer R., Ewert P., Müller J.*
- 17:15 O6-4 Cardiopulmonary exercise test in children with congenital heart diseases: correlation between ventilatory parameters and maximum oxygen uptake.  
*Gavotto A., Matecki S., Guillaumont S., Picot M.C., Amedro P.*
- 17:30 O6-5 What is the best wall thickness measure for indicating risk of sudden death in childhood hypertrophic cardiomyopathy?  
*Östman-Smith I., Sjöberg G., Larsson P., Rydberg A., Fernlund E.*
- 17:45 O6-6 Hepatic changes in the Fontan circulation: which modalities are useful for follow-up screening?  
*Francois K., Ackerman T., De Backer J., Demulier L., Geerts A., Van Vlierberghe H., Bové T.*

**Th 16:30-18:00****Workshop ECMO (Pediatric Cardiovascular Intensive Care WG)****St Clair 3****Fr 31. Mar 2017****Fr 08:00-09:00****Adult CHD WG business meeting****Pasteur Amphitheatre**

<b>Fr 08:00-09:00</b> <b>Pasteur Lounge</b>	<b>Surgical WG business meeting</b>
<b>Fr 08:00-09:00</b> <b>Rhône 1</b>	<b>Psychosocial WG business meeting</b>
<b>Fr 08:00-09:00</b> <b>Rhône 2</b>	<b>Preventive WG business meeting</b>
<b>Fr 08:00-09:00</b> <b>Rhône 3</b>	<b>Intensive Care WG business meeting</b>
<b>Fr 08:00-09:00</b> <b>St Clair 3</b>	<b>Basic Science-Genetics WG business meeting</b>
<b>Fr 09:00-10:30</b> <b>Lumière Auditorium</b>	<b>Ventricular ectopy as a Pediatric Problem</b> <i>Chair: Blom Nico (Leiden, NL), Drago Fabrizio (Rome, IT)</i>
09:00	Ventricular ectopy in children with a normal heart <i>Környei Laszlo</i>
09:22	Ventricular ectopy as a risk marker in Congenital heart diseases and Cardiomyopathies <i>Papagiannis Ioanis</i>
09:44	Ventricular ectopy in chanellopathies <i>Odland Hans Henrik</i>
10:06	Ventricular ectopy in children – when and how to ablate? <i>Kriebel Thomas</i>
<b>Fr 09:00-10:30</b> <b>Pasteur Amphitheatre</b>	<b>From Borderline Left Ventricle to Hypoplastic Left Heart Syndrome-Part 1: antenatal issues</b> <i>Chair: Sakola Taisto (Helsinki, FI), Tulzer Gerald (Linz, AU)</i>
09:00	Left ventricular development and substrate for endocardial fibroelastosis in the fetus with aortic stenosis <i>Gittenberger-de Groot Adriana</i>
09:20	Echocardiographic criteria in the fetus to predict biventricular or univentricular outcome in borderline left ventricle <i>Herberg Ulrike</i>
09:40	Prenatal intervention in fetuses with a borderline left ventricle : why, when and how <i>Tulzer Gerald</i>
	<b>Interactive cases presentation</b>
10:00	Antenatal restrictive foramen ovale without structural heart disease <i>Grzyba Agnieszka</i>
10:10	Critical aortic stenosis and borderline Left Ventricle <i>Grohmann Eva</i>
10:20	<b>Panel discussion</b>
<b>Fr 09:00-10:30</b> <b>Pasteur Lounge</b>	<b>3D/4D Imaging – Novel developments and clinical application</b> <i>Chair: Miller Owen (London, UK), Kececioglu Deniz (Bad Oeynhausen, GE)</i>
09:00	3D Echocardiography – current application in clinical practice <i>Laser Kai Thorsten</i>
09:22	4D Flow MRI and its clinical utility <i>Inga Voges</i>
09:44	Coronary evaluation - are CT, MRI and catheterisation complementary? <i>Greil Gerald</i>
10:06	Myocardial strain imaging – from 2D to 3D <i>Simpson John</i>
<b>Fr 09:00-09:45</b> <b>Rhône 1</b>	<b>Nutrition and the heart</b> <i>Chair: Dalla Pozza Robert (Munich, GE), Milanese Ornella (Padova, IT)</i>
09:00	Eating habits and their impact on metabolism and cardiovascular risk <i>Jokinen Eero</i>
09:15	Dyslipidemias-what pediatric cardiologists have to know <i>Oberhoffer Renate</i>
09:30	Healthy nutrition-actual recommendations in youth <i>Petropoulos Andreas</i>
<b>Fr 09:00-10:30</b> <b>Rhône 2</b>	<b>Nurses Scientific Session: Physical activity/and arrhythmias</b> <i>Chair: Lahdetkorpi Mia (Helsinki, FI), Svensson Birgitta (Lund, SWE)</i>

- 09:00 Sudden cardiac death in children and adolescents: Etiology and Treatment  
*Budts Werner*
- 09:22 What should we know about anti-arrhythmic medications?  
*Renwick Catherine*
- 09:44 Physical performance, exercise training and body composition in congenital heart disease  
*Sandberg Camilla*
- 10:06 Physical activity in patients with congenital Heart disease  
*Davies Shaughnessy Lynda*

**Fr 09:00-10:30 Rhône 3** **Double Outlet Right Ventricle Spectrum (DORV)**  
*Chair: Fragata Jose (Lisbonne, POR), Belli Emre (Paris, FR)*

**Double Outlet Right Ventricle Spectrum**

- 09:00 Morphological spectrum of DORV  
*Ho Yen Siew*
- 09:15 Imaging DORV - what do surgeons need ?  
*Taylor Andrew*
- 09:30 3-D printing & strategic surgical planning practical examples  
*Sarris George*
- 09:45 Surgical indications & related technical options: VSD-FALLOT types, TGA type, "Unusual" DORVs - non committed VSDs and DORV-AVSD type  
*Di Donato Roberto*

**Management of Complex Cases – Interactive Session**

- 10:00 Case - DORV with difficult tunneling VSDs  
*Lacour-Gayet François*
- 10:15 Case - DORV and TGA physiology  
*Cicek Sertaç*

**Fr 09:00-10:30 St Clair 3** **Young Investigators Awards**  
*Chair: Blom Nico (Leiden, NL), Yasukochi Satoshi (Nagano, JA)*

- YIA-1 3D volume analysis by transesophageal echocardiography of right and left ventricle just after transcatheter device closure of atrial septal defect  
*Saito M., Mahara K., Terada M., Ishii T., Hamamichi Y., Inage A., Ueda T., Yazaki S., Yoshikawa T.*
- YIA-2 Long-term outcome following percutaneous closure of isolated secundum atrial septal defects in children: a french nationwide series of 1000 consecutive patients  
*Jalal Z., Mauri L., Dauphin C., Gronier C., Hascoet S., Lefort B., Lachaud M., Petit J., Ovaert C., Fraisse A., Pillois X., Thambo J.B., Baruteau A-E.*
- YIA-3 Clinical Evaluation of Regional Myocardial Viability and Segmental Strain in Adults with Repaired Tetralogy of Fallot  
*Kitagawa A., Kimura S., Ando H., Sugimoto K., Miyaji K., Ishii M.*
- YIA-4 Children after Fontan surgery have liver hypoperfusion.  
*Shiraga K., Ono K., Okubo T., Nagamine H., Shirayama A., Nakajima H.*
- YIA-5 Ascending aortic haemodynamic flow changes are stable in bicuspid aortic valve disease  
*Bissell M.M., Hess A.T., Loudon M., Neubauer S., Myerson S.G.*
- YIA-6 Risk stratification of sudden cardiac death in pediatric patient with accessory pathway: is there a difference between symptomatic and asymptomatic ventricular pre-excitation?  
*Atallah V., Lacotte J., Salerno F., Ait Said M., Maltret A.*

**Fr 09:45-10:30 Rhône 1** **Physical activity and the heart**  
*Chair: Oberhoffer Renate (Munich, GE), Ehringer Doris (Wiener Neustadt, AU)*

- 09:45 Physical activity and sports in prevention – how much, how often, how intense?  
*Böhm Birgit*
- 10:00 Preparticipation screening in youth - actual AEPC recommendations  
*Fritsch Peter*
- 10:15 Physical activity, recreation sports and exercise training in pediatric patients with CHD  
*Gewillig Marc*

**Fr 11:30-13:00 Lumière Auditorium** **AEPC / PACES debates**  
*Chair: Kriebel Thomas (Göttingen, GE), Walsh Ed (Boston, USA)*

- 11:30 Do we need invasive electrophysiology study for risk assessment in pediatric or GUCH patients? PRO  
*Abadir Sylvia*
- 11:52 Do we need invasive electrophysiology study for risk assessment in pediatric or GUCH patients? CONTRA  
*Brugada Georgia*

- 12:14 You should use cryoenergy for every AVNRT ablation in pediatric patients: PRO  
*Drago Fabrizio*
- 12:36 You should use cryoenergy for every AVNRT ablation in pediatric patients: CONTRA  
*Walsh Ed*

**Fr 11:30-13:00**  
**Pasteur Amphitheatre**

**From Borderline Left Ventricle to Hypoplastic Left Heart Syndrome-Part 2: the Intermediate Spectrum between simple neonatal aortic stenosis and HLHS: multidisciplinary management**

*Chair: Sarris George (Athens, GR), Qureshi Shakeel (London, UK)*

- 11:30 Key Note Lecture - Spectrum between neonatal Aortic Valve Stenosis and HLHS – Medical Views  
*Kramer Hans-Heiner*
- 11:50 Key Note Lecture – Spectrum between neonatal Aortic Valve Stenosis and HLHS – “Surgical Views”  
*Boulos Asfour*

**Management of Complex Cases – Interactive Session / Experts panel**

- 12:10 Neonatal Aortic Valve Stenosis with borderline left ventricle, managed by initial balloon, leading up to Ross?  
*Boulos Asfour*
- 12:25 Neonatal Aortic Valve Stenosis with borderline left ventricle, managed by initial arch repair, ended up in uni ventricular repair  
*Mattila Ilkka*
- 12:40 Neonatal Aortic Valve Stenosis with borderline left ventricle, initial single ventricle palliation, later biventricular conversion  
*Barron David*
- 12:55 Panel discussion

**Fr 11:30-13:00**  
**Pasteur Lounge**

**Abstract Session 7: PH and HF / Best award**

*Chair: Morrell Nicholas (Cambridge, UK), Hansmann Georg (Hannover, GE)*

- 11:30 O7-1 Invasive assessment of pulmonary endothelial function in Fontan patients  
*Latus H., Lederle A., Khalil M., Kerst G., Schranz D., Apitz C.*
- 11:45 O7-2 Patient-Specific Computer Heart Model in Children with Dilated Cardiomyopathy as a Useful Tool to Guide Beta-Blocker Therapy in Pediatric Heart Failure: Preliminary Findings from the MD-Paedigree Study.  
*Chinali M., Itu L.M., Rinelli G., Heimann T., Neumann D., Secinaro A., Zaccagnini D., Lisignoli V., Ecabert O., Drago F.*
- 12:00 O7-3 Transcatheter Potts Shunt creation in children for suprasystemic pulmonary hypertension: initial and midterm results  
*Malekzadeh Milani S, Sitefane F., Sizarov A., Khraiche D., Mirabile C., Lenoir M., Levy M., Bonnet D., Boudjemline Y.*
- 12:15 O7-4 Myocardial collagen turnover and myocardial fibrosis are associated with systemic right ventricle dysfunction and wall stress in transposition of the great arteries palliated by atrial switch  
*Ladouceur M., Baron S., Nivet-Antoine V., Maruani G., Soulat G., Ferrera H., Blanchard A., Boutouyrie P., Iserin L., Paul JL., Mousseaux E.*
- 12:30 O7-5 The PPAR $\gamma$  Agonist Pioglitazone Reverses Angioobliterative Pulmonary Vascular Disease and Prevents Right Heart Failure through distinct Epigenetic and Metabolic Mechanisms  
*Legchenko E., Küffner R., Fernandez-Gonzalez A., Kourembanas S., Jonigk D., Hansmann G.*
- 12:45 O7-6 Chronic home inotropic support in infants and children with heart failure improves survival and quality of life and may lead to long-term improvement or transplantation  
*Apostolopoulou S.C., Vagenakis G., Tsoutsinos A., Laskari C.V., Rammos S.*

**Fr 11:30-13:00**  
**Rhône 1**

**Abstract Session 8: Preventive Medicine**

*Chair: Jokinen Eero (Helsinki, FI), Amedro Pascal (Montpellier, FR)*

- 11:30 O8-1 Motor development and their Association to Health-related Quality of life in Children and Adolescents with Congenital Heart Disease  
*Remmele J., Reiner B., Weberruss H., Oberhofer R., Ewert P., Müller J.*
- 11:45 O8-2 Survival and neurocognitive outcome after cardiac ECLS in children - a single centre study  
*Logeswaran T., Kehl A., Valeske K., Mueller M., Bauer J., Akintuerk H., Schranz D., Hahn A., Thul J.*
- 12:00 O8-3 Postmortem genetic analysis in paediatric patients. Familial implications.  
*Sarquella-Brugada G., Campuzano O., Cesar S., Carro E., Sanchez-Molero O., Iglesias A., Fernandez A., Castellà J., Medallo J., Brugada J., Brugada R.*

- 12:15 O8-4 Hypertrophic Cardiomyopathy in children: Genotypic-phenotypic correlation in a large Dutch cohort  
*Vos J.S., Bökenkamp R., Barge-Schaapveld D.Q.C.M. Blank A.C., Frohn-Mulder I.M.E., Delhaas T., Wolterbeek R., Kuipers I.M., Rammeloo L., Reimer A., Blom N.A.*
- 12:30 O8-5 (Cost)effectiveness of pulse oximetry screening after homebirths and early discharge: a prospective study of 20.000 newborns  
*Narayan I.C., Blom N.A., Onland W., Clur S.A., Rammeloo L.A., van den Dungen F.A., van Kaam A.H.L.C., te Pas A.B., POLAR study group*
- 12:45 O8-6 Effectiveness of the methylprednisolone-prednisolone combination therapy in 1st line treatment of high risk Kawasaki disease  
*Yoshikane Y., Miyamoto T., Hirose S., Ogawa A.*
- Fr 11:30-13:00**  
**Nurses Scientific Session: Nutrition problems in young children with Congenital Heart Disease**  
**Rhône 2**  
*Chair: Stoffel Gaby (Zürich, SWI), Renwick Catherine (London, UK)*
- 11:30 Energy intake and growth in complex CHD  
*Hansson Lena*
- 11:52 Impact of dietetic intervention preoperatively with high kcal formulas  
*Calvert Amy*
- 12:14 Multi-disciplinary feeding clinic  
*Russell Clare*
- 12:36 The parent's perspective  
*Nickels Trudy*
- Fr 11:30-13:00**  
**Rhône 3**  
**The Fontan physiology: more than just the heart**  
*Chair: Chessa Massimo (Milan, IT), Gewillig Marc (Leuven, BE)*
- 11:30 case report about hepatic problems  
*Micheletti Angelo*
- 11:50 case report about hepatic problems  
*Laranjo Sergio*
- 12:10 The point of view of the hepatologist: pathophysiology of liver failure  
*Albillos Augustin*
- 12:35 Fontan study-VALDIG consortium from the European association for the study of the Liver (EASL)  
*De Gottardi Andrea*
- Fr 11:30-13:00**  
**St Clair 3**  
**Malposition of great arteries - Fetal diagnosis**  
*Chair: Di Filippo Sylvie (Lyon, FR), Sharland Gurleen (London, UK)*
- 11:30 Challenges for prenatal anatomical diagnosis of complex Malposition of Great Arteries with unbalanced ventricles and outflow tract obstruction  
*Clur Sally Ann*
- 11:52 Prenatal assessment of prognosis in complex Malposition of Great Arteries: which parameters to predict postnatal outcome?  
*Herberg Ulrike*
- 12:14 Predicting restrictive PFO and timing of Rashkind procedure antenatally: are we doing right?  
*Tuo Giulia*
- 12:36 Impact of prenatal detection of complex Malposition of Great Arteries on postnatal surgical strategy: REV versus Nikaido versus aortic rotation (translocation)  
*Raisky Olivier*
- Fr 13:00-14:00**  
**Pasteur Amphitheatre**  
**LUNCH SYMPOSIUM: Pulse oxymetry for screening of Congenital Heart Disease in the neonates**
- Fr 13:00-14:00**  
**Rhône 1**  
**Juniors Session 2**  
*Chair: Qureshi Shakeel (London, UK)*
- Fr 14:00-15:30**  
**Lumière Auditorium**  
**Postoperative issues in the Cardiac Pediatric Intensive Care Unit**  
*Chair: Tissot Cecile (Geneva, SWI), Sekarski Nicole (Lausanne, SWI)*
- 14:00 Hemodynamic monitoring in the CICU in the modern area  
*Brierley Joe*
- 14:18 Biomarkers in the CICU : LCOS versus myocardial dysfunction  
*Tissières Pierre*
- 14:36 Inflammatory response triggered by cardio-pulmonary bypass in the CICU  
*Sanchez De Toledo Joan*
- 14:54 Myocardial protection: peri and post-operative strategies  
*Macrae Duncan*
- 15:12 Post-operative pitfalls in single ventricle patients  
*Da Cruz Eduardo*

- Fr 14:00-15:30**                      **Joint Session AEPC-Turkish Society: Tetralogy of Fallot: Surgical and interventional management**  
**Pasteur Amphitheatre**              *Chair:* Karagoz Tevfik (Ankara, TU), Boudjemline Younes (Paris FR)
- 14:00                                      Optimal timing for primary repair of Tetralogy of Fallot  
*Henaine Roland*
- 14:22                                      Stenting the ductus arteriosus in TOF as first palliation  
*Baspinar Osman*
- 14:44                                      Interventional management of complex branch stenosis.  
*Betham Jamie*
- 15:06                                      Transcatheter Pulmonary Valve Replacement in repaired Tetralogy of Fallot patients with dilated RVOT  
*Çelebi Ahmet*
- Fr 14:00-15:30**                      **Imaging Right Ventricle-Pulmonary Artery Unit in volume and pressure overload**  
**Pasteur Lounge**                      *Chair:* Greil Gerald (Dallas, USA), Beghetti Maurice (Geneva, SWI)
- 14:00                                      New useful Echocardiographic and Doppler variables and normal reference values  
*Koestenberger Martin*
- 14:22                                      Echocardiographic outcome variables in pediatric Pulmonary Hypertension  
*Berger Rolf*
- 14:44                                      New useful MRI variables and normal reference values  
*Valsangiacomo Emanuela*
- 15:06                                      Assessment of Pulmonary Vascular Resistance using XMRI technology  
*Hussain Tarique*
- Fr 14:00-15:30**                      **Moderated Posters 3**  
**Rhône 1**                                      *Chair:* Sekarski Nicole (Lausanne, SWI), Bakloul Mohamed (Lyon, FR)
- MP3-1                                      Chylothorax following paediatric cardiac surgery: a case control study of potential risk factors and the impact of a standardised management protocol  
*Day T.G., Zannino D., Golshevsky D., d'Udekem Y., Brizard C., Cheung M.H.*
- MP3-2                                      Late management of truncus arteriosus: 20 years of humanitarian experience  
*Gouton M., Lucet V., Bical O., Leca F.*
- MP3-3                                      Bioimpedance spectroscopy measurements of phase angle and height for age are predictive of outcome following surgery for congenital heart disease  
*Magee A.G., Marino L.V., Meyer R., Johnson M., Newell C., Johnstone C., Magee A., Sykes K., Wootton S., Pappachan J.V.P.*
- MP3-4                                      Impact of higher central venous pressure on brain development and neurocognitive outcome in children before Fontan procedure at 2 to 3 years of age  
*Knirsch W., Mayer K., Scheer I., Tuura R., Beck I., Wetterling K., Schranz D., Hahn A., Latal B., Reich B.*
- MP3-5                                      Is optical coherence tomography superior in comparison to coronary angiography and biopsy regarding the detection of cardiac allograft vasculopathy?  
*Ulrich S.M., Lehner A., Schramm R., Fischer M., Dalla-Pozza R., Haas N.A.*
- MP3-6                                      New stress-induced cardiomyopathy risk criteria in children and adolescents in high-achievement sports (Moscow)  
*Degtyareva E., Linde E., Jdanova O., Ovsiyannikov D.*
- MP3-7                                      Long-term follow up after single ventricle palliation: Comparison of different palliation methods  
*Sames-Dolzer E., Gierlinger G., Kreuzer M., Schrempf J., Benedikt P., Grohmann E., Tulzer G., Mair R.*
- MP3-8                                      Predictors of re-intervention after aortic coarctation repair in childhood - a population based study  
*Ylilin M.\*, Tyni V.\*, Pihkala J., Sairanen H., Sarkola T.*
- MP3-9                                      Pulmonary arterial hypertension related to complete transposition of the great arteries: outcomes after arterial switch  
*Ma K., Li S., Hua Z., Yang K., Yan J., Qi L., Zhang S., Chen Q.*
- MP3-10                                      Aortic root growth in children with Marfan syndrome: evidence for gender differences.  
*Muiño-Mosquera L., De Groot K., Vandekerckhove K., Panzer J., De Wilde H., De Wolf D., De Backer J.*
- MP3-11                                      Primary Repair of Common Arterial Trunk: Is It Safe After Four Months of Age?  
*Hascoet S., Vergnat M., Ly M., Lebrete E., Boet A., Roussin R., Horer J.*
- MP3-12                                      Impact of plasma protein deposition on Staphylococcus aureus adhesion to tissues used for RVOT reconstruction  
*Veloso T.R., Veloso R.P.L., Claes J., Liesenborghs L., Van Kerckhoven S., Jashari R., Gewillig M., Hoylaerts M.F., Meyns B., Heying R.*
- MP3-13                                      Is it really worthy an early complete repair in a Fallot situation?  
*Monteagudo M., Aroca A., Polo L., Gonzalez-Rocafort A., Sanchez R., Bret M., Rey J., Sanabria P., Pérez A., Uceda A., Labrandero C.*

- MP3-14 Evaluation of the different therapeutic options in patients with congenitally corrected transposition of the great arteries.  
*Dewals W., Dessy H., Demanet H., De Wolf D., François K., Benatar A.*
- MP3-15 Atrial Septostomy in Children with Primary Pulmonary Hypertension  
*Degano Iglesias L.A., Yevenes Ruiz S., Manchola Linero A., Betrian Blasco P., Gran Ipiña F., Torrent Vernetta A., Sabaté Rotés A., Abella R., Moreno Galdo A., Albert Brotons D.C.*
- MP3-16 Hybrid palliation for hypoplastic left heart syndrome and variants: a single center 5-year experience  
*Manuri L., Oreto L., Saitta M., Iannace E., Iorio F.S., Guccione P., Agati S.*
- MP3-17 Influence of shear stress on Staphylococcus aureus adhesion to endothelial cells mediated by Fibronectin-binding protein A and Clumping factor A in an in vitro model of endovascular infections  
*Claes J., Veloso T.R., Mancini S., Entenza J.M., Moreillon P., Hoylaerts M.F., Heying R.*
- MP3-18 Lower ministernotomy, a safe alternative for the repair of congenital heart diseases.  
*Garcia-Vieites M., Lozano-Balseiro M., Rueda-Nuñez F., Portela-Torron F., Cuenca-Castillo J.J., Bautista-Hernandez V.*
- MP3-19 Glial Fibrillary Acid Protein – a potential biomarker for cerebral injury in neonates and infants undergoing surgery for congenital heart disease  
*Hansen J.H., Kissner L., Chitadze G., Logoteta J., Jung O., Dütschke P., Scheewe J., Kramer H.-H.*
- MP3-20 Creation of the Fontan circulation in sheep: A survival model.  
*Van Puyvelde J., Rega F., Minami T., Claus P., Cools B., Gewillig M., Meyns B.*
- Fr 14:00-15:30**  
**Rhône 2**
- Nurses Moderated Posters session**  
*Chair: Davies Shaughnessy Lynda (London, UK), Ryberg Carmen and Bodén Anna (Gothenburg, SWE)*
- PN-1 Transition program in pediatric cardiology  
*Geiser Mages V., Gendre C., Sekarski N., Di Bernardo S., Mivelaz Y., Boulos Ksontini T., Prsa M.*
- PN-2 Transition Care Models in adolescents with Congenital Heart Disease: an overview of literature reviews  
*Flocco S.F., Magon A., Dellafiore F., Pittella F., Chessa M., Caruso R.*
- PN-3 How could the clinicians assess the CHD adolescents' and their parents' needs? A preliminary theoretical basis underpinning a tool development  
*Flocco S.F., Magon A., Dellafiore F., Pittella F., Chessa M., Caruso R.*
- PN-4 Intensive Care Nursing - Analysis of Current Practice and Implications for an ECMO Training Program  
*Kröger Y., Stoffel G.*
- PN-5 Like being in another world Parents' experiences of their child being admitted to a pediatric intensive care unit: a qualitative study  
*Dahav P., Sjöström-Strand A.*
- PN-6 Implantation of ICDs in children and teenagers – development of a nurse-led integrated care pathway  
*Walsh H., Hudson M.E., Lord E., English J., Kaski J.P., Mangat J., Field E.*
- PN-7 Computer assisted Learning to understand hemodynamics in congenital heart defect  
*Hjorth-Johansen E., Kynø N.M.*
- Fr 14:00-15:30**  
**Rhône 3**
- Congenitally Corrected Transposition of Great Arteries**  
*Chair: Ewert Peter (Munich, GE), Ovaert Caroline (Marseille, FR)*
- 14:00 The natural history of isolated ccTGA  
*Bonello Beatrice*
- 14:20 When to band the Pulmonary artery in patients with ccTGA?  
*Vouhé Pascal*
- 14:40 Late outcome after the double switch operation  
*Barron David*
- 15:00 Electrical therapies for the failing systemic RV in ccTGA  
*Janousek Jan*
- Fr 14:00-15:30**  
**St Clair 3**
- Morphological demonstration II: Morphology of hypoplastic left heart and endocardial fibro-elastosis**  
*Chair: Houyel Lucile (Paris, FR), Dangel Joanna (Warsaw, PO)*
- 14:00 Morphology of hypoplastic left heart and endocardial fibro-elastosis: cases-I  
*Kolesnik Adam*
- 14:45 Morphology of hypoplastic left heart and endocardial fibro-elastosis: cases-II  
*Jongbloed Monique*
- Fr 16:30-18:00**  
**Lumière Auditorium**
- Abstract Session 9: Electrophysiology II**  
*Chair: Mirczak-Knecht Maria (Warsaw, POL), Maltret Alice (Paris, FR)*

- 16:30 O9-1 Prophylactic Catheter Ablation of the Arrhythmogenic Substrates for Total Cavo-Pulmonary Connection Candidates  
*Toyohara K., Nishimura T., Shoda M., Park I.S.*
- 16:45 O9-2 Interest of coronarography in posteroseptal accessory pathways ablation in children  
*Alazard M., Lacotte J., Piechaud J.F., Maltret A.*
- 17:00 O9-3 Risk factors for Sudden Cardiac Death in Childhood Hypertrophic Cardiomyopathy: A systematic review and meta-analysis.  
*Norrish G., Cantarutti N., Pissaridou E., Ridout D., Limongelli G., Elliott P., Kaski J.P.*
- 17:15 O9-4 Pediatric (aborted) sudden cardiac death: focus on cardiac etiologies and family history  
*Bakker A.M., Buysse C.M.P., Verhagen J.M.A., Van Zellem H.L., Rammeloo L.A.J., Blom M.T., Blom N.A., Helbing W.A., Tan H.L., Kammeraad J.A.E.*
- 17:30 O9-5 Cardiovascular profile in pediatric Myotonic Dystrophy type 1: are our patients at risk?  
*Cesar S., Marzo L., Carro E., Nascimento A., Ortez C., Brugada J., Sarquella-Brugada G.*
- 17:45 O9-6 Resting ECG and Signal-Averaged ECG can Detect Depolarization Abnormalities in Pediatric Catecholaminergic Polymorphic Ventricular Tachycardia  
*Tofighi T., Hamilton R.M.*

**Fr 16:30-18:00**

**Pasteur Amphitheatre**

**Abstract Session 10: Interventional Cardiology II**

*Chair:* Butera Gianfranco (Milan, IT), Ovaert Caroline (Marseille, FR)

- 16:30 O10-1 Utility of 3D printing techniques for Interventional planning  
*Velasco Forte M.N., Byrne N., Valverde I., Pusphparajah K., Gomez-Ciriza G., Rosenthal E., Qureshi S., Tandon A., Razavi R., Krasemann T., Hussain T.*
- 16:45 O10-2 Long-term results after implantation of an unrestrictive Babystent in the infant population  
*Zartner P., Hraska V., Asfour B., Schneider M.*
- 17:00 O10-3 The role of interventional cardiology in the follow-up of TGA patients operated with Mustard technique  
*Alvarez-Fuente M., Sánchez-Pérez I., Abelleira-Pardeiro C., Herraiz I., Bermudez-Cañete R., Villagrà-Albert S., Garrido-Lestache M.E., Fernandez-Pineda L., Tamariz R., del Cerro M.J.*
- 17:15 O10-4 Pulmonary Artery Growth after Arterial Duct Stenting in Completely Duct-dependent Pulmonary Circulation  
*Santoro G., Capozzi G., Mahmoud H.T., Gaio G., Giordano M., Palladino M.T., Iacono C., Carrozza M., Esposito R., Ricci C., Morelli C., Russo M.G.*
- 17:30 O10-5 Percutaneous Access to atrial mass in following TCPC surgery (Modified Fontan) for single ventricle physiology  
*DeGiovanni J.V., Mehta C., Noonan P., Clift P., Grech V., Spadoni I.*
- 17:45 O10-6 Transcatheter embolisation of the hepatic vascular anomalies – treatment of neonates with severe CHF secondary to hepatic AV shunt  
*Brzezinska-Rajszyz G., Zubrzycka M., Kolesnik A., Rewers B., Markiewicz-Kijewska M., Kalicinski P., Kosciesza A.*

**Fr 16:30-18:00**

**Pasteur Lounge**

**Abstract Session 11: Imaging II**

*Chair:* Valsangiacomo Emmanuella (Zurich, SWI), Gournay Véronique (Nantes, FR)

- 16:30 O11-1 Natural History of Bicuspid Aortic Valve Disease Over First Two Decades of Life  
*Hagler D., Niaz T., Poterucha J.T., Olson T.M., Johnson J.N.*
- 16:45 O11-2 Updating Pediatric Norms for Peak VO<sub>2</sub> in a Clinical Setting  
*Nederend M., Ten Harkel A.D.J., Allison T.G.*
- 17:00 O11-3 Contribution of semi quantitative MRI perfusion imaging in adolescents with suspicion of myocardial ischemia after the arterial switch operation  
*Atallah V., Kara M., Meot M., Raimondi F., Khraiche D., Bonnet D.*
- 17:15 O11-4 Aortic Elasticity and Carotis Intima Media Thickness in Children with Mitral Valve Prolapse  
*Gunay E.E., Ibis Z., Cevik S.B., Akalin F.*
- 17:30 O11-5 Longitudinal assessment of global and segmental right ventricular deformation in children with hypoplastic left heart syndrome through their univentricular palliation  
*Kramer B., Charakida M., Bellsham-Revell H., Tibby S.M., Simpson J.M.*
- 17:45 O11-6 Association between obesity and abnormal postprandial hemodynamics in adolescents  
*Hauser J.A., Muthurangu V., Taylor A.M., Jones A.*

**Fr 16:30-18:00**

**Rhône 1**

**Abstract Session 12: Basic Science & Genetics**

*Chair:* Heying Ruth (Leuven, BE), Bouvagnet Patrice (Lyon, FR)

- 16:30 O12-1 A Gene, MMP12, which encodes a Metalloprotease is Responsible for nearly 6% of Patients with Congenital Heart Defects and Heterotaxy  
*Veyrier M., Guimier A., Bajolle F., El Malti R., Oufadem M., Di Filippo S., Bole-Feysot C., Masson C., Schoen P., Deleuze J.F., Nitschké P., Lyonnet S., de Pontual L., Bonnet D., Amiel J., Bouvagnet P., Gordon C.T.*
- 16:43 O12-2 Exome Sequencing Reveals Overrepresentation of Rare Variants in ErbB Pathway Genes in Patients with Left Ventricular Outflow Tract Obstruction Defects  
*Helle E., Ojala T., Wernick R., Ashley E., Priest J.*



- 16:56 O12-3 Analysis of Pediatric Heart Failure Patients Identifies Novel Genetic Variants in Cardiac Disease Genes.  
*Kühnisch J., Herbst C., Al-Wakeel N., Degener F., Messroghli D., Berger F., Klaassen S.*
- 17:09 O12-4 Characterisation of Paediatric Hypertrophic Cardiomyopathy Patients with RASopathy Mutations  
*Bolton C., Norrish G., Kaski J.P.*
- 17:22 O12-5 Genetic characterization of childhood-onset cardiomyopathies in Finland  
*Vasilescu C., Ojala T.H., Brilhante V., Ojanen S., Palin E., Alastalo T.P., Koskenvuo J., Hiippala A., Jokinen E., Jahnukainen T., Lohi J., Pihkala J., Tyni T.A., Carroll C.J., Suomalainen A.*
- 17:35 O12-6 A novel compound heterozygous loss-of-function mutation in KIF20A is associated with a rare, lethal cardiomyopathy in two siblings.  
*Louw J.J., Verdood C., Nunes Bastos R., Chen X., Corveleyn A., Jia Y., Breckpot J., Gewillig M., Peeters H., Santoro M., Barr F., Devriendt K.*
- 17:48 O12-7 Using a zebrafish model to quantify a cardiomyopathy phenotype in a causal novel gene  
*Louw J.J., Verdood C., Nunes Bastos R., Chen X., Corveleyn A., Jia Y., Breckpot J., Gewillig M., Peeters H., Santoro M., Barr F., Devriendt K.*

**Fr 16:30-18:00**  
**Rhône 3**

**Moderated Posters 4**

*Chair:* Casey Frank (Belfast, IR), Jimenez Maria (Bordeaux, FR)

- MP4-1 Cracking of coronary stents  
*Tanase D., Gendera K., Georgiev S., Genz T., Eicken A., Ewert P.*
- MP4-2 Percutaneous Closure of Arterial Duct with Amplatzer Duct Occluder II Additional Sizes in a high-volume tertiary referral centre  
*Santoro G., Mahmoud H.T., Gaio G., Giordano M., Palladino M.T., Iacono C., Di Nardo G., Esposito R., Argiento P., Fratta F., Morelli C., Ricci C., Russo M.G.*
- MP4-3 Antenatal referral for hospice care: A New approach to pregnancy birth and beyond  
*Barwick S., Wray M.T.*
- MP4-4 Prophylactic endocardial lead extraction in pediatric patient  
*Maltret A., Horvilleur J.*
- MP4-5 Tissue Doppler Imaging in diagnosing fetal Long-QT syndrome: the development and validation of a novel diagnostic approach  
*Vink A.S., Kuipers I.M., De Bruin-Bon H.A.C.M., Wilde A.A.M., Blom N.A., Clur S.A.B.*
- MP4-6 Radiation doses from paediatric interventional cardiology in France: a multicentre study  
*Baysson H., Dreuil S., De Zordo-Banliat F., Bernier M.O.*
- MP4-7 The Amplatzer Duct Occluder II Additional Sizes device for transcatheter PDA closure in preterms infants : Monocentric experience.  
*Chalard A., Lang M., Cosserant B., Ruse F., Lusson J.R., Boeuf B., Dauphin C.*
- MP4-8 Fetal versus postnatal echocardiogram accuracy in the diagnosis of interrupted aortic arch  
*Larios G., Jaeggi E., Yoo S.-J., Dutil N., Thakur V.*
- MP4-9 Cardiac Erosion after the Transcatheter Closure of Atrial Septal Defect Using Amplatzer Septal Occluder: Japanese Nationwide Experience  
*Akagi T., Yazaki S., Tomita H., Hara H., Takayama M.*
- MP4-10 Assessment of linear insertion of atrioventricular valves in fetuses with postmortem cardiac MRI  
*Blondiaux E., Autret G., Dhombres F., Gonzales M., Clément O., Jouannic J.M., Houyel L.*
- MP4-11 Outcomes of antenatal and postnatal diagnosis of TAPVC with unbalanced ventricles: 13 years' experience at a single cardiac surgical centre.  
*Fernandes P., Mantagou L., Lim J.S.L.*
- MP4-12 Foetal intrapericardial Teratoma: relevance of the EXIT strategy  
*Quarti A., Iezzi F., Pozzi M.*
- MP4-13 Transcatheter Pulmonary Valve implantation in native and postsurgical, non conduit right ventricular outflow tracts. A single center experience.  
*Giugno L., Chessa M., Butera G., Piazza L., Conforti E., Pluchinotta F.R., Micheletti A., Negura D.G., Saracino A., Giusti G., Carminati M.*
- MP4-14 Absorb Bioresorbable stents in children : indications, initial experience and mid term results  
*Malekzadeh-Milani S., Sitefan F., Boudjemline Y.*
- MP4-15 A New Covered Stent for Complex Coarctation.  
*DeGiovanni J.V., Morgan G.J., Ciuffreda M.*
- MP4-16 Ductus-stenting in complex congenital heart disease – early and long-term results in the Netherlands  
*Bökenkamp R., van Beynum I.M., Molenschot M.C., Roofthoof M.T.R., Dalinghaus M., Krings G., Berger R.M.F., Blom N.A.*
- MP4-17 Transcatheter closure of Tubular (Type C) PDA's in Patients with Pulmonary Hypertension  
*Celebi A., Yuçel I.K., Bulut M.O., Balli S., Oner T., Akgun G.*
- MP4-18 Feasibility of volumetric methods in the assessment of right ventricular (RV) function in fetuses  
*Duliban J., Pietrzak M., Grzyb A., Dangel J.*

- MP4-19 Outcomes of congenitally disconnected and non confluent branch pulmonary arteries - a single centre experience over 24 years  
*Durairaj S., Alias A., Stickley J., Barron D., Stumper O., Mehta C.*
- MP4-20 Initial experience of percutaneous PDA closure in preterm and low birth weight infants.  
*Malekzadeh-Milani S., Patkai J., Sitifane F., Mirc M., Bonnet D., Boudjemline Y.*

**Fr 16:30-18:00  
St Clair 3**

**Abstract Session 13: Fetal Cardiology**

*Chair:* Thomson John (Leeds, UK), Pangaud Nicolas (Lyon, FR)

- 16:30 O13-1 Pulmonary vein flow impedance: an early predictor of cardiac dysfunction in intrauterine growth restriction  
*Bravo-Valenzuela N.J.M., Zielinsky P., Peralta J.Z., Nicoloso L.H., Picolli A., Sulis N.M., Ritter C.C., Van der Sand L.F.*
- 16:45 O13-2 Isovolumic relaxation time is prolonged in fetal long QT syndrome  
*Clur S.A., Vink A.S., Robles de Medina P., Blom N.A., Wilde A.A., Rydberg A., Donofrio M.T., Benson D.W., Cuneo B.*
- 17:00 O13-3 Diagnosis, Management and Mid Term Outcome of Congenitally Corrected Transposition of the Great Arteries in the Fetus: a single centre experience  
*Tuo G., Paladini D., Cheli M., DeTonetti G., Santoro F., Marasini M.*
- 17:15 O13-4 Anatomical and functional changes in foetal left ventricular myocardium  
*Castaldi B., Cattapan I., Fedrigo M., Bordin G., Padrini M., Susin F., Angelini A., Milanese O.*
- 17:30 O13-5 Persistent pulmonary hypertension in newborns with TGA – can it be predicted prenatally?  
*Grzyb A., Kolesnik A., Brzezinska-Rajszyz G., Brodzikowska A., Zubrzycka M., Rewers B., Bokiniac R., Dangel J.*

**Sa 1. Apr 2017**

**Sa 08:00-09:00  
Rhône 2**

**Nurses WG business meeting**

**Sa 09:00-10:30  
Pasteur Amphitheatre**

**Congenital Coronary arteries anomalies**

*Chair:* Bozio Andre (Lyon, FR), Milanese Ornella (Padua, IT)

- 09:00 Coronary artery arising from the opposite sinus : diagnostic issues and risk stratification  
*Dewolf Daniel*
- 09:20 Surgical techniques for Abnormal Aortic Origin of a Coronary Artery, intramural trajets  
*Ninet Jean*
- 09:40 Intramural coronary artery associated with transposition of great arteries : preoperative diagnosis and prognosis
- 10:00 Assessment, management and prognosis of coronary fistulae in pulmonary atresia and intact interventricular septum

**Sa 09:00-10:30**

**Joint Session AEPC- Pediatric Cardiac Society of India: Infective endocarditis and rheumatic heart disease**

**Pasteur Lounge**

*Chair:* Qureshi Shakeel (London, UK), Saxena Anita (Dehli, UK)

- 09:00 Diagnosis of Infective endocarditis in Congenital Heart Diseases: from Echo to PET-CT  
*Pushparajah Kuberan*
- 09:18 Treatment and prophylaxis of infective endocarditis in congenital heart disease  
*Gillet Yves*
- 09:36 Secondary prophylaxis for rheumatic heart disease: what are the challenges in developing countries  
*Saxena Anita*
- 09:54 Surgical valve sparing techniques in children with acquired valve disease  
*Hazekamp Mark*
- 10:12 Outcomes of balloon valvuloplasty in children with rheumatic mitral valve lesions  
*Jayanganath M.*

**Sa 09:00-10:30  
Rhône 1**

**Puzzle the experts: systemic disorders**

*Chair:* Kaski Juan Pablo (London, UK), Klaassen Sabine (Berlin, GE)

- 09:00 Cardiac involvement in neuromuscular disorders  
*Kaski Juan Pablo*
- 09:30 Cardiac involvement in storage diseases  
*Klaassen Sabine*
- 10:00 Cardiac involvement in childhood cancer  
*Mathur Sujeev*

**Sa 09:00-10:30  
Rhône 2**

**Nurses Scientific Session: Home monitoring and follow up**

*Chair:* Svensson Birgitta (Lund, SWE), Stoffel Gaby (Zürich, SWI)

- 09:00 Caring for Children with Complex Heart defects: the multidisciplinary work?  
*Ryberg Carmen and Bodén Anna*

09:22	Pulse oximetry /Interstage Care (HLHS and children with a shunt or stent dependent circulation) <i>Fredriksen Britt Elin</i>
09:44	Home Monitoring Warfarin and Coaguchek <i>Perrier Gaelle, Monnet Fernande</i>
10:06	Belfast Home Monitoring Program (A randomised trial of a remote home support programme for infants with severe congenital heart disease) <i>Casey Frank</i>
<b>Sa 09:00-10:30</b> <b>Rhône 3</b>	<b>Preparing and preserving the Right Heart for life</b> <i>Chair: Thomson John (Leeds, UK), Butera Gianfranco (Milan, IT)</i>
09:00	Prenatal intervention to promote right ventricular growth <i>Dangel Joanna</i>
09:18	How to score the small RV/PA for primary interventional or surgical RVOT-opening <i>Taylor Andrew</i>
09:36	Ballooning versus stenting the RVOT in neonates - what to expect on the long run <i>Stumper Oliver</i>
09:54	Strategies in multifocal lung perfusion <i>Schneider Martin</i>
10:12	Surgical options to prepare the right ventricle for the long run <i>Giamberti Alessandro</i>
<b>Sa 11:00-12:30</b> <b>Pasteur Amphitheatre</b>	<b>Failure and successes session together with Gerd Hausdorf lecture: cases from all over Europe</b> <i>Chair: Thomson John (Leeds, UK), Qureshi Shakeel (London, UK)</i>
11:00	<b>Failure and successes session: cases from all over Europe</b>
12:00	Gerd Hausdorf lecture: Errors in the cath lab - how to improve patient safety <i>Carminati Mario</i>
<b>Sa 11:00-12:30</b> <b>Pasteur Lounge</b>	<b>Puzzle the experts:</b> <b>Fetal cases</b> <i>Chair: Clur Sally (Amsterdam, NL), Ohmann Anika (SWE)</i>
<b>Sa 11:00-12:30</b> <b>Rhône 1</b>	<b>Imaging debates</b> <i>Chair: Grosse-Wortmann Lars (Toronto, CA), Valsangiacomo Emmanuela (Zurich, SW)</i>
11:00	Imaging of the newborn with congenital heart disease – is echo all we need? FOR <i>Eidem Benjamin</i>
11:22	Imaging of the newborn with congenital heart disease – is echo all we need? AGAINST <i>Berbaum Philipp</i>
11:44	Imaging in patients with heart failure: Is echocardiography all we need? FOR <i>Lopez Leo</i>
12:06	Imaging in patients with heart failure: Is echocardiography all we need? AGAINST <i>Muthurangu Vivek</i>
<b>Sa 11:00-12:30</b> <b>Rhône 2</b>	<b>Nurses Scientific Session: Young people with Congenital Heart Disease new challenges- and future perspectives</b> <i>Chair: Goossens Eva (Leuven, BE), Bratt Ewa-Lena (Gothenburg, SWE)</i>
11:00	Vocational aspects/planning for future <i>Goossens Eva</i>
11:22	Body modification: Are tattoos and piercings save for patient with CHD? <i>Leaver Lindsay-Kay</i>
11:44	Alcohol, Cannabis and Co? Is it bad for my heart? <i>Thomet Corina</i>
12:06	Pregnancy and CHD <i>Furunás Eva</i>
<b>Sa 11:00-12:30</b> <b>Rhône 3</b>	<b>Congenital Atrio-Ventricular Valves anomalies</b> <i>Chair: Fraise Alain (London, UK), Mace Loic (Marseille, FR)</i>
11:00	Imaging modalities for preoperative assessment of congenital mitral valve anomaly <i>Godart François</i>
11:18	Shone complex: conservative surgical management of mitral valve, valve growth and long-term outcome <i>Belli Emre</i>
11:36	Ebstein valve anomaly : the determinants of right ventricle function <i>Mocerì Pamela</i>
11:54	Individualized Surgical Treatments for Children with Ebstein Anomaly. <i>Vida Vladimiro</i>

12:12 Outcomes and Factors of Mortality in Fetal or Neonatal Diagnosis of Ebstein Anomaly.  
*Veyrier Magali*

Sa 12:30-13:00  
Pasteur Amphitheatre

**KEYNOTE CLOSURE**

**Wednesday, Mar 29 to Saturday, Apr 01, 2017**

08:00-18:00  
Forum 2

**Posters & Exhibition**

**Arrhythmia/electrophysiology**

- P-1 Can psychostimulant drug therapy change the electrophysiological properties of low-risk manifest accessory pathways?: A case report  
*Karadeniz C.*
- P-2 Does obesity influence ventricular repolarization in children?  
*Yildiz N.Y., Uçar T., Berberoğlu M., Şıklar Z., Ramoğlu M., Köse S.K., Tutar E., Atalay S.*
- P-3 Post pediatric cardiac surgery arrhythmia - can we predict and prevent their occurrence in children after cardiac surgery?  
*Harpanahalli R.R., Maiya S.S., Pujar S.V.*
- P-4 Miniaturized subcutaneous Holter: finally a paediatric tool  
*Sarquella-Brugada G., Moll I., Cesar S., Carro E., Brugada J.*
- P-5 Flecainide test in paediatric population: safety, effectiveness and risk factors for a positive test  
*Sarquella-Brugada G., Cesar S., Carro E., Reiter D., Moll I., Torner S., Esquirol M., Campuzano O., Brugada J.*
- P-6 QT correction during exercise testing: performance of new QT formulae computed from normal cohort at baseline  
*Benatar A., Dewals W., Decraene T., Feenstra A.*
- P-7 Feasibility and outcome of near zero fluoroscopy ablation procedures in children  
*De Wilde H., De Pooter J., Timmers L., Van Heuverswyn F., De Wolf D.*
- P-8 Management of electrical storm in a 14-year-old girl with Anderson-Tawil syndrome  
*Schmidt K., Follmann P., Pohler J., Fritsche K., Mitschke T., Zimmer M., Kriebel T.*
- P-9 Rate Control by Transoesophageal Atrial Qverdrive Pacing for Refractory Supraventricular Tachycardia  
*Paech C., Janousek J., Wagner F., Gebauer R.A.*
- P-10 Surface electrocardiographic features and prevalence of arrhythmias in paediatric Friedreich's ataxia  
*Montañes M.E., Toledano M., Field E., Walsh H., Maguire K., Cervi E., Kaski J.P.*
- P-11 The Effect of Metilpheniydate, Risperidone and Combination Therapy on ECG in Children With Attention-Deficit Hyperactivity Disorder  
*Karpuz D., Hallioglu O., Toros F., Tasdelen B.*
- P-12 Filling the gap in the detection and management of dysrhythmia - the life-vest  
*Fernandez Rodriguez S., Haas N.A., Lehner A., Birnbaum J., Fischer M., Schulze-Neick I.*
- P-13 The role of endomyocardial biopsy in establishing the etiology of progressive ventricular arrhythmias in children  
*Vasichkina E.S., Mitrofanova L.B., Tatarsky R.B., Pervunina T.M., Lebedev D.S.*
- P-14 Extension of right-sided T wave inversion to Lead V4: an ECG marker of atrial septal defect in children  
*Saito-Benz M., Gnanapragasam J.*
- P-15 Efficiency and safety of CARTO ablation of atrial tachycardias in preschool children  
*Svintsova L., Dzhaifarova O., Plotnikova I., Krivolapov S., Batalov R., Popov S.*
- P-16 Signal-Averaged Electrocardiogram (SAECG) in children with ventricular arrhythmias  
*Turska-Kmiec A., Miszczak-Knecht M., Kosciesza A., Ziolkowska L., Brzezinska-Rajszyz G., Zuk M., Kowalczyk-Domagala M., Sobielarska D., Czarnowska E.*

**Basic science, Genetics**

- P-17 Effects of Vagus Nerve Stimulation on Heart Rate Variability in Children with Epilepsy  
*Cetin I.I., Serdaroglu A., Hirfanoglu T., Kurt G., Capraz I., Bilir E., Arhan E., Aydin K.*
- P-18 The Etiology and Clinical Characteristics of Patients with Pulmonary Hypertension without Congenital Heart Disease  
*Gümüştaş M., Dönmez Y.N., Alehan D.*
- P-19 Predictive genotype testing in pediatric healthy phenotypes with family history of ARVC-5  
*Laser K.T., Kececioğlu D., Milting H.*
- P-20 Incidence of Aspirin-Related Hepatotoxicity in Pediatric Cases with Acute Rheumatic Fever  
*Olgun H., Bulgan M., Ceviz N., Yolcu C., Sahin I.O., Laloglu F.*
- P-21 Two Patients with the Heterozygous R189H Mutation in ACTA2 and Complex Congenital Heart Defects expands the Cardiac Phenotype of Multisystemic Smooth Muscle Dysfunction Syndrome  
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## The Association for European Paediatric and Congenital Cardiology: active middle-ager moving forward

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**T**HIS YEAR WAS A LANDMARK FOR THE ASSOCIATION for European Paediatric Cardiology (AEPC), as the 50th annual meeting was held in Rome, Italy. The next AEPC meeting will be held in Lyon, France, from 27 March to 1 April 2017.

The Association for European Paediatric Cardiology (AEPC) was founded in Lyon in 1963, as *Association Européenne pour la Cardiologie Pédiatrique*. In the beginning, the Association was a small club including around 35 members, each representing their own country. Since its conception, the AEPC has changed beyond recognition and has developed to form a network of specialists who are committed to the practice and advancement of congenital cardiology and closely related fields. The total membership of the Association now comprises of >1300 paediatric cardiologists and other specialists working in the field. The number of members has been steadily increasing by ~10% a year. Members of AEPC originate from virtually all countries in Europe, and most European countries are represented within the Association by an elected National Delegate. Although AEPC was originally formed as a European Association, there were important changes in the constitution and the philosophy of the AEPC in the 1990s, such that now there are members from all the continents, and the number of members from outside Europe is continuing to increase. This makes AEPC the largest democratically governed organisation with a global membership in the field of paediatric and congenital cardiology.

The Association is governed by a Council of 10 officers, who include Paediatric Cardiologists, as

well as representatives for Paediatric Cardiac Surgery, Adult Congenital Cardiology and Juniors in Training. Thus, the Council is formed from a diverse group of specialists with different areas of interest, but all with the same goal of treating patients with CHD.

In addition to the Council, the Association now has a total of 13 working groups, with the most recent working group – for nursing and allied specialties – being established in 2016. Thus, the working groups represent all fields of paediatric and congenital cardiology. The Association also has an Education Committee, whose role is to oversee teaching and training.

### Mission of AEPC

The mission of AEPC is to promote the following:

- Knowledge of the normal and diseased heart and circulation from the fetus into adulthood.
- Exchange of expertise and knowledge between experts and members from Europe and globally.
- Continuous medical education.
- Harmonising training in paediatric cardiology and its subspecialties in Europe.

All the activities of the Association are aimed towards achieving these goals. Promoting training and exchange of expertise are major tasks of the Association. The annual meetings in the earlier years were important grounds for exchange of knowledge. Over the last two decades, however, the scientific content of the annual meeting has changed such that the meeting is now considered one of the best in paediatric cardiology throughout the world. This has been the result of the Association moving with the times. An aspect that has remained consistent since the early years is the prestigious Edgar Mannheim lecture on the opening day. An area that has

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continued to develop at the annual meeting is the number of abstracts and posters, which have now become of a very high standard scientifically and provide opportunities for doctors from all over the world to present their scientific research.

### **Working group activity**

The activity of AEPC working groups is the cornerstone of AEPC. The major tasks of the working groups are to promote and develop their own subspecialty area by sharing information and expertise. The working groups are also responsible for organising teaching and training courses for juniors, as well as designing and setting up multi-centre research studies.

### **Continuous medical education**

In addition to the annual scientific meeting of AEPC, the Association organises several teaching courses each year for those in training. These are organised by the various working groups in rotation and cover the various different aspects of the specialty; two to three such courses are organised by different working groups every year, and these are appreciated highly by the trainees. Most recently, AEPC working groups organised basic training courses in fetal cardiology, imaging, and intervention. These courses are popular as they are affordable and organised in cities that can easily be accessed from all the European countries. The training courses are also a good platform for junior fellows to get to know each other and to start networking in the community of congenital cardiology.

### **Scientific grants provided by AEPC**

AEPC and its working groups aim to enhance collaboration among members for scientific research and professional development and to maintain high standards of professional practice. AEPC promotes exchange of young researchers and multi-centre studies annually with a grant of €30,000 per year for a young investigator to travel anywhere in the world to other centres for research studies. In addition, AEPC encourages scientific activity within the working groups by awarding €5000 each year to the best scientific publication from an AEPC working group.

### **Harmonising training**

Although there are no clear European obligations for training in paediatric and congenital cardiology, the transfer of services and experts within the European Union makes homogeneous training of experts critical. Our vision is that all children who receive

treatment for CHD should be able to rely on high-quality expertise. With this in mind, AEPC training recommendations were developed for basic training in paediatric cardiology. These may be particularly helpful for European countries, where no guidelines or recommendations for basic training in paediatric cardiology currently exist.

### **AEPC exchange programmes**

The AEPC also promotes the development of exchange programmes for trainees and young investigators between different teaching hospitals in Europe, with gradually increasing exchange outside Europe as well. This contributes towards their training as well as collaboration in international research. This is another area that is appreciated by trainees. It is also an area that has received major emphasis from the AEPC over the last two decades.

### **Participation in registries**

The aim of all the activities in training and teaching is to promote uniformity in high-quality treatment across Europe; however, some measure of the quality of treatment is required, and to achieve this large multi-centre intercontinental registries in the different subspecialties of paediatric and congenital cardiology are needed. The AEPC is currently participating in a few registries in conjunction with other associations and societies, but the quality assessment is still in early stages. Ultimately, these registries will allow each unit to compare its standards of care with other hospitals, thus acting as a stimulus to improve care in each unit.

The standard of diagnosis and treatment of patients with CHD is high in many countries, but it is variable. Owing to the rarity of CHD compared with other diseases, there is a risk that patients with CHD are not high priority in health programmes in different countries. AEPC is an advocate and is lobbying for better service for these patients. We are very pleased that the European Union has created the European Reference Network for rare diseases. CHD will be a part of this programme next year, and AEPC has strongly supported this.

### **International collaboration**

The work on behalf of children and patients with CHD is global. The AEPC has made itself a global organisation by its close collaboration with other international organisations. These include the European Society of Cardiology and especially its working group for adult congenital cardiology; the Japanese Society of Paediatric Cardiology and Cardiac Surgery; the

European Association for Cardio-Thoracic Surgery and especially its domain for congenital cardiac surgery; the Adult Congenital and Pediatric Cardiology Section of the American College of Cardiology; the Asia Pacific Pediatric Cardiac Society; the European Heart Surgeons Association, the World Congress of Paediatric Cardiology and Cardiac Surgery and several others. The AEPC is viewed and respected at an international

level because of its willingness to collaborate with all the organisations dealing with CHD. This will be a key strength for the AEPC in the next two decades.

As has been highlighted in this editorial, the AEPC has grown from a small club into a major international organisation in CHD, with a gradually increasing membership and increasing attendance each year at its annual meetings.



# Association for European Paediatric and Congenital Cardiology (AEPC)



**A**EPC WAS FOUNDED IN LYON IN 1963 (as Association Européenne pour la Cardiologie Pédiatrique) and subsequently has created a network of specialists who are committed to the practice and advancement of Congenital Cardiology and closely related fields. *Cardiology in the Young* is the official journal of the AEPC. AEPC offers a free subscription of 'Cardiology in the Young' (CitY) as part of the annual membership fee. The membership also offers several other benefits.

The overall membership of the Association currently stands at 1300 paediatric cardiologists and other specialists working in the field of paediatric cardiology and its related disciplines. As far as we are aware, the AEPC is the largest democratically administered global association in the field of paediatric and congenital cardiology. Members of the AEPC originate from virtually all countries in Europe and it is encouraging that there are now increasing numbers of members from all the continents. New members are very welcome as they bring with them new ideas and innovations.

AEPC and its Working Groups aim to enhance collaboration amongst members for scientific research, promoting training, professional development and to maintain high standards of professional practice. The work on behalf of children and patients with congenital heart diseases is global and the AEPC has made itself a global organisation by its close collaboration with other international organizations. These include the European Society of Cardiology;

the Japanese Society of Paediatric Cardiology and Cardiac Surgery (JSPCCS); the European Association for Cardio-Thoracic Surgery (EACTS) and; the Adult Congenital and Pediatric Cardiology Section of the American College of Cardiology (ACC); the Asia Pacific Pediatric Cardiac Society (APPCS); the European Heart Surgeons Association (ECHSA), the World Congress of Paediatric Cardiology and Cardiac Surgery and several others.

## Working groups

Several activities of AEPC are organized by the Working Groups. The Working Groups represent different subspecialties and specific areas of paediatric and congenital cardiology. The Association now has 13 Working Groups, to bring together workers with similar interests in order to facilitate research and collaboration and to organise teaching and training.

## Annual meetings

An Annual Meeting and an Update-On Course are organised by the AEPC, usually in the third week of May in collaboration with one of the member countries. The AEPC organizes 2–3 Teaching courses for trainees in Paediatric Cardiology each year. Additional symposia and courses are usually a part of the annual meetings.

# The International Society for Nomenclature of Paediatric and Congenital Heart Disease



**T**HE INTERNATIONAL SOCIETY FOR NOMENCLATURE of Paediatric and Congenital Heart Disease (ISNPCHD) is an established not-for-profit organization, incorporated in Canada, with the collective mission to identify, standardize, and maintain an international system of nomenclature, the International Paediatric and Congenital Cardiac Code (IPCCC), to enhance global communication and facilitate patient care, research, and training in paediatric and congenital heart care across disciplines. In other words, the IPCCC provides a common language and terminology, inclusive of definitions and imaging, which covers the entire field of diagnostic and procedural terms for paediatric and congenital heart care. The IPCCC is the product of the cross-mapping work by the ISNPCHD Nomenclature Working Group during the decade following the publication in 2000 of two similar and complementary nomenclature systems, namely the International Congenital Heart Surgery Nomenclature and Database Project under the auspices of the European Association for Cardio-Thoracic Surgery and Society of Thoracic Surgeons, and the European Paediatric Cardiac Code under the auspices of the Association for European Paediatric Cardiology. The IPCCC is owned by the ISNPCHD but is digitally published for free download for private use ([www.ipccc.net](http://www.ipccc.net)) in these two Societal versions, both with a Long List of over 10,000 terms with qualifiers, and a Short List of up to 1000 terms for use in databases when comparing institutional outcomes, both nationally and internationally. The Long Lists of the IPCCC comprehensively cover the field of paediatric and congenital cardiac care, including diagnoses of congenital and related acquired pathology, comorbid conditions, transcatheter and operative procedures, and a full list of postprocedural complications. The Short Lists are used within databases across the world with over 500,000 registered patients. The ISNPCHD encourages the commercial use of the

IPCCC by requiring and providing free-of-charge license agreements for its use, to ensure that the IPCCC remains unaltered by parties other than the ISNPCHD.

Since 2007 the ISNPCHD has been operating through three working groups:

- The Nomenclature Working Group, which continues to maintain, develop, expand, update, and preserve the IPCCC;
- The Definitions Working Group, which is engaged in writing definitions for the terms in the IPCCC. More recently this initiative has focused on the terms provided by the ISNPCHD at the behest of the World Health Organization (WHO) for the 11<sup>th</sup> revision of the International Classification of Diseases;
- The Archiving Working Group, which is engaged in linking images and videos to the IPCCC, including cardiac morphologic specimens, echocardiography, angiography, computerized axial tomography, magnetic resonance imaging, intraoperative photographs and intraoperative videos.

The ISNPCHD, through the IPCCC, enables institutions from around the world to seamlessly communicate with each other, comparing and then improving outcomes and the quality of care that is given to children, young people, and adults born with malformed hearts. This common language enables institutions to learn from those hospitals performing best at a global level, as well as facilitating research projects, such as comparing the longer term quality of life and complications in those who have required operative and transcatheter interventions. In addition, the nomenclature with corresponding definitions and matching imaging, enhances teaching of this specialty to the next generation of clinicians dedicated to pediatric and congenital cardiac care, both in the developed and developing world.