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

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

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: Milanesi 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

Lecture: Genetics in Congenital Heart Disease

Bouvagnet Patrice

We 14:00-15:30 Educational Committee meeting
Rhone 1
We 16:00-16:30 Mannheimer Lecture _____________ A.E.P.C.: A milestone in Pediatric Cardiology History
Lumiere Auditorium
16:00 A.E.P.C.: A milestone in Pediatric Cardiology History
Bozio Andre
We 16:30-18:00 Opening Ceremony
Lumiere Auditorium
We 18:00-20:00 RECEPTION
Forum 2

Th 11:30-13:00 Abstract Session 1: Adult congenital heart disease
Pastor Lounge
11:30 Cases presentation-I
Hebe Joachim
12:15 Cases presentation-II
Happonen Juha-Matti

Chair: Eicken Andreas (Munich, GE), Roubertie François (Bordeaux, FR)
Cardiology in the Young: Volume 27 Supplement 2

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., Bozo 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 multicentric study

12:15 O1-4 Characteristics and outcomes of heart failure-related hospitalization in adults with congenital heart disease
Ladouceur M., 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

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 All about Devices in Congenital Heart Diseases interventions
Rhône 1
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
Rhône 2
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 Pharmacotherapy of the critically ill patient with Pulmonary Hypertension
Rhône 3
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 Trials in Congenital Heart Diseases  
St Clair 3  
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  
Laërt Stephanie

Th 13:00-14:00 LUNCH SYMPOSIUM: Respiratory Syncytial Virus in the Pediatric patient with Congenital Heart Disease  
Pasteur Lounge  
Th 13:00-14:00 Juniors Session 1  
Rhône 1  
Chair: Roest Arno (Leiden, NL)  
Th 13:30-14:00 Lecture: Rheumatic fever, early diagnosis in developing countries  
Lumière Auditorium

Th 14:00-15:30 Fetal Magnetic Resonance Imaging in Congenital Heart Diseases - insight in fetal cardiac hemodynamics and morphology and brain development  
Lumière Auditorium  
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 Joint Session AEPC-Canadian Society: Novelties and future of pacemakers in children and patients with congenital heart disease  
Pasteur Amphitheatre  
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 Aortic Coarctation: Morphology predicting outcomes in Adulthood  
Pasteur Lounge  
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  
Witsenburg Maarten  
15:12 Complex Coarctation / Re-Coarctation and Hybrid approach  
Chessa Massimo

Th 14:00-15:30 Abstract Session 2: Interventional Cardiology I  
Rhône 1  
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.
Results of transcatheter pulmonary valvuloplasty in children < 30 kg.

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.

The Melody™ valved stent: up to 10 years of experience
Cools B., Budts W., Bosshoff D., Heying R., Vanagt W., Troost E., Freichs S., Gewillig M.

Unusual Techniques for Percutaneous Pulmonary Valve Replacement using the Melody valve.
Godart F., Houeijeh A., Guillaume M.P., Gras P., Domanski O

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.

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.

Beyond aortic dilatation - Positive effect of angiotensin II receptor blockers on mitral valve prolapse in a retrospective analysis of pediatric patients with Marfan syndrome

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., Müller E., Kerst G., Marx N., Frick M.

Safety And Short-Term Efficacy Of Transition From Bosentan To Macitentan In Patients With Pulmonary Arterial Hypertension: Preliminary Results
Aypar E., Alehan D.

Out of hospital cardiac arrest and cardiopulmonary resuscitation in children with congenital heart defects
Holmstrøm H., Jortveit J., Eskedal L., Dahlen G., Birkeland S.

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.

Pediatric patients with KCNJ2 mutations: wide clinical spectrum in a special disorder
Zambrano M.D., Cesari S., Carro E., Campuzano O., Maya K., Viadero M.T., Alegría I., Sanchez-de-Toledo J., Brugada J., Sarquella-Brugada G.

First data of the RIKADA study: risk stratification of children and adolescents with primary cardiomyopathies
Degener F., Al-Wakeel-Marquard M., Schmitt B., Kelm M., Kühne T., Berger F., Messroghli D., Klaassen S.

Left ventricular apical pacing in children – feasibility and long-term effect on ventricular function
Kovanda J., Janousek J., Lozek M., Kubus P.

Update on baseline data and first 1-year follow-up from the German multi-centre myocarditis registry in pediatric patients: “MYKKE”

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?

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.

Significant Diameter Heterogeneity Between Aortic Root and Aortic Annulus in Bicuspid Aortic Valve
Fournier A., Meloch-Dumas L., Dallaire F., Blais S., Dahdah N.

Late Enlargement of Radiofrequency Lesions in Children: This is really truth?
Melo S., Pisani C., Miura N., Rochite C., Scanavacca M.

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.
### Abstract Session 1: Cardiology, Intensive Care and Surgery for Congenital Heart Disease

**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., Popelova J., Timko F., Slezakova D., Skalsky I., Janousek J.

**MP1-17**
**Right ventricular diastolic dysfunction in pediatric patients with ventricular pre-excitation**  

**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**  

**MP1-20**
**Clinical, neurohormonal and psychological characteristics predict on a long-term basis, adverse cardiac events in patients with congenital heart defects**  
Kourkoveil P., Apostolopoulou S., Kiousis M., Moutsou A., Rammos S.

### Abstract Session 2: Neurosurgery and Critical Care

**Th 14:00-15:30**
**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**  

**14:30 O3-3**
**New insight in edema formation after Fontan surgery; the contribution of osmotic pressure in plasma and interstitium**  

**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., Ktraiche D., Raisky O., Bonnet D., Vouhe P.R.

**15:15 O3-6**
**Recurrent Coarctation after Coarctation Repair for Coarctation of the Aorta- A-15 Year Retrospective Study**  
Hansson K., Malm T., Johansson Rampgren J., Liuba P.

### Abstract Session 4: Imaging I

**Th 16:30-18:00**
**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., Haxiandemi D., Moschetti R., Alit A.L.

**17:00 O4-3**
**Giant aneurysms: a gender-specific complication of Kawasaki disease?**  

**17:15 O4-4**
**Regression and complications of z-score based giant aneurysms in a Dutch cohort of Kawasaki disease patients**  

**17:30 O4-5**
**How long does it take for coronary artery aneurysms to resolve after Kawasaki disease?**  
Hillary C., Jaber D., Khader Y., Tullio 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.

### Abstract Session 5: Electrophysiology I

**Th 16:30-18:00**
**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
Kubeš P., Rubačková 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

17:15 O5-4  s-ICD implantation in the young: low BMI as a predictor of surgical complications.

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 Moderated Posters 2
Pasteur Lounge
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?

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?

MP2-6  Three Dimensional Printed Models For Surgical Planning Of Complex Congenital Heart Defects: An International Multicenter Study

MP2-7  Carotid Intima Media Thickness and Arterial Stiffness in Smoking and Passive Smoking Children
Kılıç Z., Bozdag O., Karabel D., Yıldırım A., Canik A., Alatas O., Sumul M., Ucar B.

MP2-8  Non-invasive assessment of arterial function in overweight and obese children and adolescents
Jakab A.E., Hidvegi E.V., Illyés M., Cziraki 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., Huel L.

MP2-10  The efficacy of prenatal and postnatal screening for critical congenital heart defects
Narayen I.C., Duineved 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)

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., Sabinekiewicz 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., Ovrottski 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., Tunaoğlu F.S.T., Kula S.


MP2-19 Sudden death of patients with Kawasaki disease under school supervision in last 30 years

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., Piausco M., Milanesi 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
Laciakova´ L., Blasˇkovanova´ N., Tla´skal 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?
17:00 O6-3 Carotid intima-media thickness in children with congenital heart disease
Reiner B., Oberhofer 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?
Ostman-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 Vlierberghen H., Bove´ T.

Th 16:30-18:00 Workshop ECMO (Pediatric Cardiovascular Intensive Care WG)
St Clair 3
Fr 08:00-09:00 Adult CHD WG business meeting
Pasteur Amphitheatre
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<td>Fr 08:00-09:00</td>
<td>Pasteur Lounge</td>
<td>Surgical WG business meeting</td>
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<td>Fr 08:00-09:00</td>
<td>Rhône 1</td>
<td>Psychosocial WG business meeting</td>
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<td>Preventive WG business meeting</td>
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<td>Fr 08:00-09:00</td>
<td>St Clair 3</td>
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<td>Fr 09:00-10:30</td>
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<td>Ventricular ectopy as a Pediatric Problem</td>
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<tr>
<td>Fr 09:00-10:30</td>
<td>Pasteur Amphitheatre</td>
<td>From Borderline Left Ventricle to Hypoplastic Left Heart Syndrome-Part 1: antenatal issues</td>
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<td>Fr 09:00-10:30</td>
<td>Pasteur Lounge</td>
<td>3D/4D Imaging – Novel developments and clinical application</td>
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<td>Rhône 1</td>
<td>Nutrition and the heart</td>
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<td>Fr 09:00-10:30</td>
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<td>Nurses Scientific Session: Physical activity/and arrhythmias</td>
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**Ventricular ectopy as a Pediatric Problem**
Chair: Blom Nico (Leiden, NL), Drago Fabrizio (Rome, IT)

- 09:00: Ventricular ectopy in children with a normal heart
  Kórnyei Laszlo
- 09:22: Ventricular ectopy as a risk marker in Congenital heart diseases and Cardiomyopathies
  Papagiannis Ioannis
- 09:44: Ventricular ectopy in chanellopathies
  Odland Hans Henrik
- 10:06: Ventricular ectopy in children – when and how to ablate?
  Kriebel Thomas

**From Borderline Left Ventricle to Hypoplastic Left Heart Syndrome-Part 1: antenatal issues**
Chair: Sakola Taisto (Helsinki, FI), Tulzer Gerald (Linz, AU)

- 09:00: Left ventricular development and substrate for endocardial fibroelastosis in the fetus with aortic stenosis
  Gittenberger-de Groot Adriana
- 09:20: Echocardiographic criteria in the fetus to predict biventricular or univentricular outcome in borderline left ventricle
  Herberg Ulrike
- 09:40: Prenatal intervention in fetuses with a borderline left ventricle: why, when and how
  Tulzer Gerald

Interactive cases presentation

- 10:00: Antenatal restrictive foramen ovale without structural heart disease
  Grzyba Agnieszka
- 10:10: Critical aortic stenosis and borderline Left Ventricle
  Grohmann Eva
- 10:20: Panel discussion

**3D/4D Imaging – Novel developments and clinical application**
Chair: Miller Owen (London, UK), Kececioglu Deniz (Bad Oeynhausen, GE)

- 09:00: 3D Echocardiography – current application in clinical practice
  Laser Kai Thorsten
- 09:22: 4D Flow MRI and its clinical utility
  Inga Voges
- 09:44: Coronary evaluation - are CT, MRI and catheterisation complementary?
  Greil Gerald
- 10:06: Myocardial strain imaging – from 2D to 3D
  Simpson John

**Nutrition and the heart**
Chair: Dalla Pozza Robert (Munich, GE), Milanesi Ornella (Padova, IT)

- 09:00: Eating habits and their impact on metabolism and cardiovascular risk
  Jokinen Eero
- 09:15: Dyslipidemias-what pediatric cardiologists have to know
  Oberhoffer Renate
- 09:30: Healthy nutrition-actual recommendations in youth
  Petropoulos Andreas

**Nurses Scientific Session: Physical activity/and arrhythmias**
Chair: Lahdetkorpi Mia (Helsinki, FI), Svensson Birgitta (Lund, SWE)
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  Double Outlet Right Ventricle Spectrum (DORV)
Rhône 3
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 Sertac

Fr 09:00-10:30  Young Investigators Awards
St Clair 3
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

YIA-3  Clinical Evaluation of Regional Myocardial Viability and Segmental Strain in Adults with Repaired Tetrology 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  Physical activity and the heart
Rhône 1
Chair: Oberhofer Renate (Munich, GE), Ehringer Doris (Wiener Neustadt, AU)

09:45  Physical activity and sports in prevention – how much, how often, how intense?
       Bohm 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  AEPC / PACES debates
Lumière Auditorium
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 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 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.

12:00 O7-3 Transcatheter Potts Shunt creation in children for suprasystemic pulmonary hypertension: initial and midterm results
Malekzadeh Milani S, Stetfane F., Sizarov A., Khraiche D., Mirabile C., Lenoir M., Levy M., Bonnet D., Boujdjemle 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

12:30 O7-5 The PPARγ 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., Laskaris C.V., Rammos S.

Fr 11:30-13:00 Abstract Session 8: Preventive Medicine
Chair: Jokinen Eero (Helsinki, FL), 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., Webernuss H., Oberhofer R., Ewert P., Müller J.

11:45 O8-2 Survival and neurocognitive outcome after cardiac ECLS in children - a single centre study

12:00 O8-3 Postmortem genetic analysis in paediatric patients. Familial implications.
12:15 O8-4 Hypertrophic Cardiomyopathy in children: Genotypic-phenotypic correlation in a large Dutch cohort

12:30 O8-5 (Cost)effectiveness of pulse oximetry screening after homebirths and early discharge: a prospective study of 20,000 newborns

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 The Fontan physiology: more than just the heart
Rhône 3
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 Malposition of great arteries - Fetal diagnosis
St Clair 3
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 LUNCH SYMPOSIUM: Pulse oxymetry for screening of Congenital Heart Disease in the neonates

Fr 13:00-14:00 Juniors Session 2
Rhône 1
Chair: Qureshi Shakeel (London, UK)

Fr 14:00-15:30 Postoperative issues in the Cardiac Pediatric Intensive Care Unit
Lumière Auditorium
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
### Joint Session AEPC-Turkish Society: Tetralogy of Fallot: Surgical and interventional management

**Pasteur Amphitheatre**  
Chair: Karagoz Tevfik (Ankara, TU), Boudjemline Younes (Paris FR)

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenter</th>
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<tbody>
<tr>
<td>14:00</td>
<td>Optimal timing for primary repair of Tetralogy of Fallot</td>
<td>Henaine Roland</td>
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<tr>
<td>14:22</td>
<td>Stenting the ductus arteriosus in TOF as first palliation</td>
<td>Baspinar Osman</td>
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<tr>
<td>14:44</td>
<td>Interventional management of complex branch stenosis.</td>
<td>Betham Jamie</td>
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<tr>
<td>15:06</td>
<td>Transcatheter Pulmonary Valve Replacement in repaired Tetralogy of Fallot patient s with dilated RVOT</td>
<td>Çelebi Ahmet</td>
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### Imaging Right Ventricle-Pulmonary Artery Unit in volume and pressure overload

**Pasteur Lounge**  
Chair: Greil Gerald (Dallas, USA), Beghetti Maurice (Geneva, SWI)

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<thead>
<tr>
<th>Time</th>
<th>Title</th>
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<tr>
<td>14:00</td>
<td>New useful Echocardiographic and Doppler variables and normal reference values</td>
<td>Koestenberger Martin</td>
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<tr>
<td>14:22</td>
<td>Echocardiographic outcome variables in pediatric Pulmonary Hypertension</td>
<td>Berger Rolf</td>
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<tr>
<td>14:44</td>
<td>New useful MRI variables and normal reference values</td>
<td>Valsangiacomo Emanuela</td>
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<td>15:06</td>
<td>Assessment of Pulmonary Vascular Resistance using XMRI technology</td>
<td>Hussain Tarique</td>
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### Moderated Posters 3

**Rhône 1**  
Chair: Sekarski Nicole (Lausanne, SWI), Bakloul Mohamed (Lyon, FR)

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<thead>
<tr>
<th>Poster</th>
<th>Title</th>
<th>Authors</th>
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<tbody>
<tr>
<td>MP3-1</td>
<td>Chylothorax following paediatric cardiac surgery: a case control study of potential risk factors and the impact of a standardised management protocol</td>
<td>Day T.G., Zannino D., Golshevsky D., d’Udekem Y., Brizard C., Cheung M.H.</td>
</tr>
<tr>
<td>MP3-2</td>
<td>Late management of truncus arteriosus: 20 years of humanitarian experience</td>
<td>Gouton M., Lucet V., Bical O., Leca F.</td>
</tr>
<tr>
<td>MP3-3</td>
<td>Bioimpedance spectroscopy measurements of phase angle and height for age are predictive of outcome following surgery for congenital heart disease</td>
<td>Magee A.G., Marino L.V., Meyer R., Johnstone C., Magee A., Sykes K., Wootton S., Pappachan J.V.P.</td>
</tr>
<tr>
<td>MP3-4</td>
<td>Impact of higher central venous pressure on brain development and neurocognitive outcome in children before Fontan procedure at 2 to 3 years of age</td>
<td>Knirsch W., Mayer K., Scheer I., Tuura R., Beck I., Wetterling K., Schranz D., Hahn A., Latal B., Reich B.</td>
</tr>
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<td>MP3-5</td>
<td>Is optical coherence tomography superior in comparison to coronary angiography and biopsy regarding the detection of cardiac allograft vasculopathy?</td>
<td>Ulrich S.M., Lehner A., Schramm R., Fischer M., Dalla-Pozza R., Haas N.A.</td>
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<tr>
<td>MP3-6</td>
<td>New stress-induced cardiomyopathy risk criteria in children and adolescents in high-achievement sports (Moscow)</td>
<td>Degtyareva E., Linde E., Jdanova O., Ovsyannikov D.</td>
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<td>MP3-7</td>
<td>Long-term follow up after single ventricle palliation: Comparison of different palliation methods</td>
<td>Sames-Dolzer E., Gierlinger G., Kreuzer M., Schrempf J., Benedikt P., Grohmann E., Tulzer G., Mair R.</td>
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<td>MP3-8</td>
<td>Predictors of re-intervention after aortic coarctation repair in childhood - a population based study</td>
<td>Yilnen M.<em>, Tyni V.</em>, Pihkala J., Sairanen H., Sarkola T.</td>
</tr>
<tr>
<td>MP3-9</td>
<td>Pulmonary arterial hypertension related to complete transposition of the great arteries: outcomes after arterial switch</td>
<td>Ma K., Li S., Hua Z., Yang K., Yan J., Qi L., Zhang S., Chen Q.</td>
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</table>
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


MP3-16
Hybrid palliation for hypoplastic left heart syndrome and variants: a single center 5-year experience

Manuri L., Oreo 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


MP3-18
Lower ministernotomy, a safe alternative for the repair of congenital heart diseases


MP3-19
Glial Fibrillary Acid Protein – a potential biomarker for cerebral injury in neonates and infants undergoing surgery for congenital heart disease


MP3-20
Creation of the Fontan circulation in sheep: A survival model

Van Puyvelde J., Rega F., Minami T., Claus P., Coops B., Gewillig M., Meyns B.

Fr 14:00-15:30  Nurses Moderated Posters session  Rhône 2
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., Kaksi J.P., Mangat J., Field E.

PN-7
Computer assisted Learning to understand hemodynamics in congenital heart defect

Hjorth-Johansen E., Kynä N.M

Fr 14:00-15:30  Congenitally Corrected Transposition of Great Arteries  Rhône 3
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  Morphological demonstration II: Morphology of hypoplastic left heart and endocardial fibro-elastosis  St Clair 3
Chair: Houyet 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  Abstract Session 9: Electrophysiology II  Lumière Auditorium
Chair: Mirzczak-Knecht Maria (Warsaw, POL), Maltret Alice (Paris, FR)
16:56 O12-3 Analysis of Pediatric Heart Failure Patients Identifies Novel Genetic Variants in Cardiac Disease Genes.
Kühnish 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

17:35 O12-6 A novel compound heterozygous loss-of-function mutation in KIF20A is associated with a rare, lethal cardiomyopathy in two siblings.

17:48 O12-7 Using a zebrafish model to quantify a cardiomyopathy phenotype in a causal novel gene

Fr 16:30-18:00 Moderated Posters 4
Rhône 3
Chair: Casey Frank (Belfast, IR), Jimenez Maria (Bordeaux, FR)

MP4-1 Cracking of coronary stents
Tanase D., Gendra 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
Maître A., Horvillier J.

MP4-5 Tissue Doppler Imaging in diagnosing fetal Long-QT syndrome: the development and validation of a novel diagnostic approach

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., Houyet 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 stategy
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., Negra D.G., Saracino M., Giusti G., Carminati M.

MP4-14 Absorb Biodesorbable 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.
DeGiovanne J.V., Morgan G.J., Cufrreda M.

MP4-16 Ductus-stenting in complex congenital heart disease – early and long-term results in the Netherlands
Boekenkamp R., van Beynum I.M., Molenschot M.C., Roothood M.T.R., Dailinghaus M., Krijgs 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., Yucel 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.
09:22 Pulse oximetry /Interstage Care (HLHS and children with a shunt or stent dependent circulation)
Fredriksen Britt Elin

09:44 Home Monitoring Warfarin and Coaguchek
Perrier Gaelle, Monnet Fernande

10:06 Belfast Home Monitoring Program (A randomised trial of a remote home support programme for infants with severe congenital heart disease)
Casey Frank

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

**Preparing and preserving the Right Heart for life**
**Rhône 3**

*Chair:* Thomson John (Leeds, UK), Butera Gianfranco (Milan, IT)

09:00 Prenatal intervention to promote right ventricular growth
*Dangel Joanna*

09:18 How to score the small RV/PA for primary interventional or surgical RVOT-opening
*Taylor Andrew*

09:36 Ballooning versus stenting the RVOT in neonates - what to expect on the long run
*Stumper Oliver*

09:54 Strategies in multifocal lung perfusion
*Schneider Martin*

10:12 Surgical options to prepare the right ventricle for the long run
*Giamberti Alessandro*

**Sa 11:00-12:30**

**Failure and successes session toghether with Gerd Hausdorf lecture: cases from all over Europe**

**Pasteur Amphi***theatre**

*Chair:* Thomson John (Leeds, UK), Qureshi Shakeel (London, UK)

11:00 Failure and successes session: cases from all over Europe

12:00 Gerd Hausdorf lecture: Errors in the cath lab - how to improve patient safety
*Carminati Mario*

**Sa 11:00-12:30**

**Puzzle the experts:**

**Pasteur Lounge**

*Chair:* Clur Sally (Amsterdam, NL), Ohmann Anika (SWE)

11:00 Imaging debates

*Chair:* Grosse-Wortmann Lars (Toronto, CA), Valsangiacomo Emmanuela (Zurich, SW)

11:00 Imaging of the newborn with congenital heart disease – is echo all we need? FOR
*Eidem Benjamin*

11:22 Imaging of the newborn with congenital heart disease – is echo all we need? AGAINST
*Beerbaum Philipp*

11:44 Imaging in patients with heart failure: Is echocardiography all we need? FOR
*Lopez Leo*

12:06 Imaging in patients with heart failure: Is echocardiography all we need? AGAINST
*Muthurangu Vivek*

**Sa 11:00-12:30**

**Nurses Scientific Session: Young people with Congenital Heart Disease new challenges- and future perspectives**

**Rhône 2**

*Chair:* Goossens Eva (Leuven, BE), Bratt Ewa-Lena (Gothenburg, SWE)

11:00 Vocational aspects/planning for future
*Goossens Eva*

11:22 Body modification: Are tattoos and piercings save for patient with CHD?
*Leaver Lindsay-Kay*

11:44 Alcohol, Cannabis and Co? Is it bad for my heart?
*Thomet Corina*

12:06 Pregnancy and CHD
*Furunás Eva*

**Sa 11:00-12:30**

**Congenital Atrio-Ventricular Valves anomalies**

**Rhône 3**

*Chair:* Fraisse Alain (London, UK), Mace Loïc (Marseille, FR)

11:00 Imaging modalities for preoperative assessment of congenital mitral valve anomaly
*Godart François*

11:18 Shone complex: conservative surgical management of mitral valve, valve growth and long-term outcome
*Belli Emre*

11:36 Ebstein valve anomaly : the determinants of right ventricle function
*Moceri Pamela*

11:54 Individualized Surgical Treatments for Children with Ebstein Anomaly.
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Outcomes and Factors of Mortality in Fetal or Neonatal Diagnosis of Ebstein Anomaly. Veyrier Magali

**KEYNOTE CLOSURE**

Wednesday, Mar 29 to Saturday, Apr 01, 2017

**Posters & Exhibition**

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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-9 Rate Control by Transoesophageal Atrial Overdrive 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 Montanés 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-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 Svinstova L., Dzhaftarova O., Plotnikova I., Krivolapov S., Batavol R., Popov S.


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Prognostic significance of myocardial ischemia detected by single-photon emission computed tomography in children with hypertrophic cardiomyopathy.

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The Association for European Paediatric and Congenital Cardiology: active middle-ager moving forward

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This 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 Mannheimer lecture on the opening day. An area that has
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 organizing 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 organizes several teaching courses each year for those in training. These are organized by the various working groups in rotation and cover the various different aspects of the specialty; two to three such courses are organized by different working groups every year, and these are appreciated highly by the trainees. Most recently, AEPC working groups organized basic training courses in fetal cardiology, imaging, and intervention. These courses are popular as they are affordable and organized 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 organization 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)

AEPC 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 1 300 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

The 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) 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 11th 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.