

Cardiology in the Young

Cardiology in the Young
48th Annual Meeting of the Association for European Paediatric
and Congenital Cardiology, with joint sessions with the
Japanese Society of Pediatric Cardiology and Cardiac Surgery
and Asia-Pacific Pediatric Cardiac Society
Helsinki, Finland, May 21–24, 2014



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Cardiology in the Young

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Opening Hours

| | | |
|-----------|-----------|------------|
| Wednesday | 21.5.2014 | 7.30-20.00 |
| Thursday | 22.5.2014 | 7.30-19.00 |
| Friday | 23.5.2014 | 7.30-18.00 |
| Saturday | 24.5.2014 | 8.30-14.00 |

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Wednesday, 21 May 2014

| Room A | Meeting room 1 | Meeting room 2 | Finlandia-hall | Exhibition space | Congress wing lobby |
|--|---|---|--|----------------------------------|-----------------------------|
| 07:45-15:30 Update Teaching Course - Univentricular Heart from Fetus to Adult | | | | | |
| 08:30-10:10 Univentricular Heart - Pathophysiology and Imaging | 8:30-10:30 Scientific Advisory Committee | | | | |
| 10:40-12:30 Univentricular Heart - Treatment Strategies | | | | | |
| | | 12:30-13:30 National Delegates Meeting & Professional Advisory Committee | | | 10:10-10:40 Coffee Break |
| 13:30-15:30 Univentricular Heart - Late Outcome | 13:30-15:30 Coding Committee | 13:30-15:00 Education Committee | | | 12:30-13:30 Lunch |
| | | | 16:00-18:00 Opening Ceremony and Mannheimer Lecture | | |
| | | | | 18:00-20:00 Welcome Reception | |

Thursday, 22 May 2014

| Room A | Room B | Helsinki-auditorium | Meeting room 1 | Meeting room 2 | Meeting room 3 | Exhibition space |
|--|--|--|--|--|---|---|
| <p>08:00-09:00 WG Business Meeting: Intervention</p> | <p>08:00-09:00 WG Business Meeting: Imaging</p> | <p>08:00-09:00 WG Business Meeting: Electrophysiology</p> | <p>08:00-09:00 WG Business Meeting: Surgery</p> | <p>08:00-09:00 WG Business Meeting: Basic Science & Genetics</p> <p>9:00-10:30 Special program for nurses: Counselling and patient education in congenital heart disease</p> | <p>08:00-09:00 WG Business Meeting: Fetal Cardiology</p> | |
| | | <p>09:15-11:00 AEPC Business Meeting</p> | | | | <p>11:00-11:30 Posters, Industry Exhibition and Coffee</p> |
| <p>11:30-13:00 Working Group Symposium - Joint session Morphology, Intervention and Imaging: Novel approaches in clinical imaging</p> | <p>11:30-13:00 Abstract Session 1: Arrhythmia</p> | <p>11:30-13:00 Working Group Symposium - Basic Science and Genetics: Regeneration in cardiac tissue</p> | <p>11:30-13:00 Abstract Session 2: Fetal</p> | <p>11:30-13:00 Special program for nurses: Transition from pediatric to GUCH clinic</p> | | |
| | | | | | | <p>13:00-14:30 Lunch</p> |
| <p>13:10-14:25 INDUSTRY SYMPOSIUM - Philips: Can imaging innovation improve outcomes?</p> | | <p>13:10-14:25 INDUSTRY SYMPOSIUM - Medtronic: Melody Transcatheter pulmonary valve</p> | <p>13:30-14:25 Meeting: Junior Members</p> | | | |

Thursday, 22 May 2014 (continued ...)

| Room A | Room B | Helsinki-auditorium | Meeting room 1 | Meeting room 2 | Meeting room 3 | Exhibition space |
|--|--|---|---|--|--|---|
| <p>14:30-16:00 Working Group Symposium - Intervention and GUCH: Coronary artery problems and disease in adults with congenital heart disease: how to evaluate, how to prevent, how to treat</p> | <p>14:30-16:00 Abstract Session 3: Prevention</p> | <p>14:30-16:00 Working Group Symposium - Fetal Cardiology: Puzzle the experts</p> | <p>14:30-16:00 Abstract Session 4: Basic science</p> | <p>14:30-16:00 Moderated Posters 1 (General)</p> | | |
| | | | | | | <p>16:00-16:30 Posters, Industry Exhibition and Coffee</p> |
| | | <p>16:30-18:00 Working Group Symposium - Prevention and Psychosocial: Cardiovascular risk in obesity</p> | <p>16:30-18:00 Abstract Session 5: Heart failure</p> | <p>16:30-18:00 Moderated Posters 2 (Imaging + Fetal)</p> | <p>16:30-18:00 Anatomy Exhibition 1</p> | |
| | | | | | <p>18:00-19:00 Business Meeting AEPG/JSPCCS</p> | |

Friday, 23 May 2014

| Room A | Room B | Helsinki-auditorium | Meeting room 1 | Meeting room 2 | Meeting room 3 | Meeting room 4 | Exhibition space |
|---|---|---|---|---|---|--|---|
| <p>08:00-09:00 WG Business Meeting: Prevention</p> <p>09:00-10:30 Joint Session AEPC / JSPCCS: Right ventricle under stress</p> | <p>08:00-09:00 WG Business Meeting: Morphology</p> | <p>08:00-09:00 Meeting: Council meets industry</p> <p>09:00-10:30 Working Group Symposium - Electrophysiology: Arrhythmias in Adult CHD</p> | <p>08:00-09:00 WG Business Meeting: Intensive care</p> <p>09:00-10:30 Abstract Session 6: General 1</p> | <p>08:00-09:00 WG Business Meeting: GUCH Task Force</p> <p>09:00-10:30 Special program for nurses: Special issues in ICU care in congenital heart disease</p> | <p>08:00-09:00 WG Business Meeting: Psycho-Social Care from Fetus to Adult</p> | <p>08:00-09:00 Meeting: Drug Task Force</p> | <p>10:30-11:30 Posters, Industry Exhibition and Coffee</p> |
| <p>11:30-13:00 Young Investigators Award</p> | <p>11:30-13:00 Abstract Session 7: General 2</p> | <p>11:30-13:00 Working Group Symposium - Electrophysiology: Inherited arrhythmia syndromes</p> | <p>11:30-13:00 Abstract Session 8: Imaging</p> | <p>11:30-13:00 Special program for nurses: Professional development in paediatric cardiac nursing</p> | | | |

Friday, 23 May 2014 (continued ...)

| Room A | Room B | Helsinki-auditorium | Meeting room 1 | Meeting room 2 | Meeting room 3 | Meeting room 4 | Exhibition space |
|---|--------|---|--|---|--|----------------|---|
| | | <p>13:10-14:25 INDUSTRY SYMPOSIUM - St. Jude Medical: Congenital heart disease: The boundaries of percutaneous closure</p> | | | | | <p>13:00-14:30 Lunch</p> |
| <p>14:30-16:00 Working Group Symposium - Joint AEP/ASE session on advanced echocardiography and functional MRI imaging</p> | | <p>14:30-16:00 Working Group Symposium - Intervention: Atrial septal defect : do we know everything?</p> | | <p>14:30-16:00 Moderated Posters 3 (Interventional + Surgery and Intensive care + General)</p> | <p>14:30-16:00 Anatomy Exhibition 2</p> | | |
| | | | | | | | <p>16:00-16:30 Posters, Industry Exhibition and Coffee</p> |
| <p>16:30-18:00 Working group symposium - Morphology: The Scimitar Syndrome Revisited</p> | | <p>16:30-18:00 Joint Session AEP/EAETS: Management of complex pulmonary arterial stenosis: Interventional, surgery or hybrid</p> | <p>16:30-18:00 Abstract Session 9: GUCH</p> | <p>16:30-18:00 Moderated Posters 4 (Electrophysiology + Basic + Prev + GUCH)</p> | | | |

Saturday, 24 May 2014

| Room A | Room B | Meeting room 1 | Exhibition space |
|--|---|--|---|
| 09:00-10:45 Working Group Symposium - Intensive care and Surgery | 09:00-10:30 Joint Session AEPC/APPCS: Heterotaxy syndromes - still a challenge. | 09:00-10:30 Abstract Session 10: Intervention | |
| 11:00-12:30 Working Group Symposium Intervention: Successes and failures in the cath lab | 11:00-12:30 Working Group Symposium - Fetal cardiology: Fetal myocardial dysfunction and its consequences | 11:00-12:30 Abstract Session 11 Surgery/Intensive Care | 10:30-11:00 Posters, Industry Exhibition and Coffee |
| 12:40-13:40 Keynote Lecture and closing | | | |



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SCIENTIFIC PROGRAMME

WEDNESDAY 21. MAY 2014

- We 14:00–20:00** **Congress Registration**
- We 07:45–15:30** **Update Teaching Course - Univentricular Heart from Fetus to Adult**
- Room A**
- We 07:45–08:30** **Registration**
- We 08:30–10:10** **Univentricular Heart - Pathophysiology and Imaging**
- Room A**
- 08:30 *Chair:* J Pihkala (Helsinki, Finland), Wim Helbing (Rotterdam, The Netherlands)
Overview - physiology of the univentricular circulation
Gewillig M.
- 08:50 Evolution of fetal heart disease to univentricular heart: Natural history and the role of fetal interventions?
Dangel J.
- 09:10 How much do we understand myocardial mechanics in a functionally single ventricle?
Mertens L.
- 09:30 Univentricular function assessment in clinical practice
Simpson J.
- 09:50 Imaging strategies for achieving best outcome (echo, cath, MRI, CT)
Marek J.
- We 10:10–10:40** **Coffee Break**
- Congress wing lobby**
- We 10:40–12:30** **Univentricular Heart - Treatment Strategies**
- Room A**
- 10:40 *Chair:* G Butera (Milan, Italy), Heikki Sairanen (Helsinki, Finland)
Evolving surgical strategies in UVH
Sano S.
- 11:05 Catheter treatment before and after the Fontan operation
Benson L.
- 11:30 Pre- and postop management of HLHS patients
Tissot C.
- 11:50 Treatment strategies for atrial arrhythmias: drugs, ablation or surgery
Pflaumer A.
- We 12:30–13:30** **Lunch**

Congress wing lobby

We 13:30–15:30 Univentricular Heart - Late Outcome

Room A

Chair: Marc Gewillig (Leuven, Belgium)

13:30

Pulmonary and visceral complications in Fontan patients

Holm J.

13:50

Treatment and prevention of thromboembolic complications

McCrinkle B.

14:10

Neurodevelopmental outcome

Casey F.

14:30

Sudden death in univentricular heart - epidemiology and prevention

Kriebel T.

14:50

Panel discussion: Management of a failing Fontan patient, The role of palliative care in patients with the end-stage cardiac problems, Timing of transplantation

Benson L., Gewillig M., Marek J., Sano S.

We 8:30–10:30

Scientific Advisory Committee

Meeting room 1

We 12:30–13:30

National Delegates Meeting & Professional Advisory Committee

Meeting room 2

We 13:30–15:00

Education Committee

Meeting room 2

We 13:30–15:30

Coding Committee

Meeting room 1

We 16:00–18:00

Opening Ceremony and Mannheimer Lecture

Finlandia-hall

16:00

Mannheimer lecture: Percutaneous therapies: caveat emptor or caveat venditor?

Benson L.

We 18:00–20:00

Welcome Reception

Exhibition space

THURSDAY 22. MAY 2014

Th 08:00–09:00

WG Business Meeting: Basic Science & Genetics

Meeting room 2

Th 08:00–09:00

WG Business Meeting: Electrophysiology

Helsinki-auditorium

Th 08:00–09:00

WG Business Meeting: Imaging

Room B

Th 08:00–09:00

WG Business Meeting: Surgery

Meeting room 1

Th 08:00–09:00

WG Business Meeting: Intervention

Room A

Th 08:00–09:00

WG Business Meeting: Fetal Cardiology

Meeting room 3

Th 09:15–11:00

AEPC Business Meeting

Helsinki-auditorium

Th 9:00–10:30

Special program for nurses: Counselling and patient education in congenital heart disease

Meeting room 2

Chair: M. Lähdetkorpi (Helsinki, Finland)

09:00

How to inform the family on a serious disease of their child

Lönnqvist T.

- 09:20 Age specific counselling of a child with CHD
Puckey M.
- 09:40 Prescribing exercise for children with CHD
Hwiid-Klausen S.
- 10:00 Special counselling issues in teenagers and young adults
Vissia-Kazemier T.

Th 11:00–11:30 Posters, Industry Exhibition and Coffee

Exhibition space

Th 11:30–13:00 Working Group Symposium - Joint session Morphology, Intervention and Imaging: Novel approaches in clinical imaging

- Room A**
11:30 *Chair:* J. Eichhorn (Leverkusen, Germany), E. Valsangiacomo (Zurich, Switzerland)
When the pathologist becomes a clinician: novel approaches in clinical imaging in Congenital Heart Disease
Yen Ho S.
- 11:50 Imaging for the Electrophysiologist – we can do much more than an EP person can even think of
Razavi R.
- 12:10 Imaging to navigate interventions: How much imaging does the interventionalist need?
Schranz D.
- 12:30 3D/4D MRI changes the future of patients with CHD
Greil G.

Th 11:30–13:00 Working Group Symposium - Basic Science and Genetics: Regeneration in cardiac tissue

- Helsinki-auditorium**
11:30 *Chair:* P. Bouvagnet (Lyon, France), M. Gorenflo (Heidelberg, Germany)
The role of epigenetics in cardiac adaptation to stress
Meder B.
- 11:55 Myocardial regeneration by bioartificial myocardium: targets and challenges
Chachques J.C.
- 12:20 From developmental biology to cardiac regeneration: today's challenges
Puceat M.
- 12:45 Panel discussion

Th 11:30–13:00 Abstract Session 1: Arrhythmia

- Room B**
11:30 *Chair:* F. Drago (Rome, Italy), A. Celiker (Istanbul, Turkey)
Importance and implications of the occurrence of supraventricular arrhythmia in children with Catecholaminergic Polymorphic Ventricular Tachycardia
Shkolnikova M.A., Berezniatskaya V., Termosesov S.
- O1-1
11:45 Risk factors predicting the future presence of long QT syndrome-related symptoms in pediatric patients diagnosed by school-based electrocardiographic screening programs in Japan
Yoshinaga M., Sato S., Ushinohama H., Horigome H., Sumitomo N., Tauchi N., Iwamoto M., Tateno S., Izumida N., Nagashima M.
- 12:00 Heating Effects of Magnetic Resonance Imaging on Epicardial Pacing Leads
O1-3
12:15 *Balmer C., Gass M., Dave H., Luechinger R.*
Determinants of left ventricular dysfunction in children with frequent premature ventricular complexes and/or asymptomatic ventricular tachycardia
Harteveld L.M., Bertels R.A., Filippini L.H., Clur S.-A., Blom N.A.
- O1-4
12:30 Postnatal Outcome of Isolated AV-Block. A Dutch Retrospective Analysis
Van den Berg N.W.E., van Beynum I.M., Clur S.-A., Frohn-Mulder I.M.E., van Loo-Maurus K.E., Rackowitz A.B.M.H., Rammeloo L.A.J., Reimer A., Rijlaarsdam M.E.B., Freund M.W.
- O1-5
12:45 Single catheter technique for radiofrequency ablation of drug-refractory tachycardias in infants
Sarquella-Brugada G., Cesar-Díaz S., Bautista C., Moll I., Esquirol M., Serrano M., Torner S., Berrueto A., Brugada J.

Th 11:30–13:00 Abstract Session 2: Fetal

- Meeting room 1**
11:30 *Chair:* G. Sharland (London, UK), O. Pitkänen (Helsinki, Finland)
A 10-year study of planned delivery of fetuses with prenatally diagnosed congenital heart disease in a single institution
O2-1
Bensemlali M., Bajolle F., Parisot P., Fermont L., Le Bidois J., Laux D., Salomon L., Bonnet D.

- 11:45 Prenatal detection of transposition of the great arteries affects mortality and morbidity
O2-2 *Van Velzen C.L., Reijnders G., Rijlaarsdam M.E.B., Bax C.J., Pajkrt E., Hruđa J., Galindo-Garre F., Bilardo C.M., De Groot C.J.M., Blom N.A., Haak M.C., Clur S.-A.*
- 12:00 Characteristics and outcomes of fetuses with laterality defects. Comparison of the newer outcomes data with the more remote ones
O2-3 *Fesslova V., Boschetto C., Brankovic J.*
- 12:15 Isolated AV-Block in the Fetus. A Dutch Retrospective Analysis
O2-4 *van den Berg N.W.E., van Beynum I.M., de Bruijn D., Bilardo C.M., Clur S.-A., Cohen-Overbeek T.E., Frohn-Mulder I.M.E, Haak M.C., van Loo-Maurus K.E., Manten G.T.R., Rackowitz A.B.M.H., Rammeloo L.A.J., Reimer A., Rijlaarsdam M.E.B., Freund M.W.*
- 12:30 Intrauterine treatment of critical pulmonary stenosis/atresia with intact septum – preliminary experience of intrauterine and postnatal course
O2-5 *Tulzer G., Arzt W., Gitter R.*
- 12:45 Can postnatal aortic arch morphology predict neonatal coarctation of the aorta following prenatal diagnosis?
O2-6 *Vigneswaran T.V., Simpson J.M.*

Th 11:30–13:00 Special program for nurses: Transition from pediatric to GUCH clinic

Meeting room 2

Chair: P. Eriksson (Gothenburg, Sweden)

- 11:30 Optimal transition - cardiologist's view
Eriksson P.
- 11:45 Optimal transition - patient's view
Nieminen H.
- 12:00 Optimal transition - nurse's view
Shaughnessy L.
- 12:15 Optimal transition - nurse's view
Bratt E-L.
- 12:30 Panel discussion

Th 13:00–14:30 Lunch,

Exhibition space

Th 13:10–14:25 INDUSTRY SYMPOSIUM - Philips: Can imaging innovation improve outcomes?

Room B

Chair: N. Haas (Bad Oeynhausen, Germany)

- 13:10 Radiation reduction study in a high volume congenital cath lab: setting a new standard with new image processing
Haas N.
- 13:30 The clinical impact of rotational angiography in single ventricle patients
Goreczny S.
- 13:50 Improved diagnosis and guidance with MRI-fluoroscopy fusion
Schubert S.

Th 13:30–14:25 Meeting: Junior Members

Meeting room 1

Th 14:30–16:00 Working Group Symposium - Fetal Cardiology: Puzzle the experts

Helsinki-auditorium

Chair: S. Clur (Amsterdam, The Netherlands), U. Herberg (Bonn, Germany)

Experts: G. Sharland (London, UK), J. Dangel (Warsaw, PL)

- 14:30 Case 1
Simpson J.
- 14:48 Case 2
Bartrons J.
- 15:06 Case 3
Areias J.C.
- 15:24 Case 4
Herberg U.
- 15:42 Case 5
Clur S.

Th 14:30–16:00**Working Group Symposium - Intervention and GUCH: Coronary artery problems and disease in adults with congenital heart disease: how to evaluate, how to prevent, how to treat****Room A**

14:30

Chair: J. Thomson (Leeds, UK), M. Witsenburg (Rotterdam, The Netherlands)
Risk factors and occurrence of CAD in adolescents and adults with congenital heart disease

Oberhoffer R.

14:50

Special situations (SVAS, Williams, aortic coarctation and other CHD)

Bonnet D.

15:10

Surgical interventions on coronary arteries in congenital heart disease

Comas J.

15:30

Percutaneous interventions on coronary arteries in congenital heart disease

Akagi T.

15:50

Panel discussion

Th 14:30–16:00**Abstract Session 3: Prevention****Room B**

14:30

Chair: R. Oberhoffer (Munich, Germany), V. Herceg-Cavrak (Zagreb, Croatia)

Motor skills in children are no longer influenced by the existence of congenital heart defect

O3-1

Reiner B., Reiner N., Elmenhorst J., Engelhardt A., Ewert P., Oberhoffer R.

14:45

Average-Intima-Media-Thickness and Intima-Media-Roughness as new parameters for cardiovascular health in children

O3-2

Dalla Pozza R., Pirzer R., Weberruß H., Elmenhorst J., Beyerlein A., Schmidt-Trucksäss A., Oberhoffer R., Netz H.

15:00

Congenital Heart Disease is Associated with the Development of Diabetes Mellitus: A Nationwide Study

O3-3

Madsen N., Marino B.S., Woo J.G., Antonsen S., Videbæk J., Laursen H.B., Olsen M.

15:15

Impact of lifestyles of children and their parents on cardiovascular risk factors in elementary school children

O3-4

Yoshinaga M., Miyazaki A., Aoki M., Ito Y., Kubo T., Hamajima T., Horigome H., Takahashi H., Iwamoto M., Ogata H., Tokuda M., Tachikawa T., Hara M., Shinomiya M., Nagashima M.

15:30

Fitness is not associated with carotid intima media thickness in children

O3-5

Weberruss H., Pirzer R., Elmenhorst J., Netz H., Dalla Pozza R., Oberhoffer R.

15:45

Temporal Trends of Increasing Adiposity are Associated with Diminished Exercise Capacity in Children with Repaired Congenital Heart Disease

O3-6

Tamayo C., Manlhiot C., McCrindle B.W.

Th 14:30–16:00**Abstract Session 4: Basic science****Meeting room 1**

14:30

Chair: M. Gorenflo (Heidelberg, Germany), I. Östman-Smith (Gothenburg, Sweden)

Model of hypoplastic left heart in the fetal lamb created using a percutaneous transhepatic technique - preliminary experience

O4-1

Wong F., Edwards A., Veldman A., Nitsos I., Chan Y., Brew N., Teoh M., Menahem S., Black M.J., Schranz D.

14:45

Pulmonary artery growth in congenital heart disease with duct-dependent pulmonary circulation: role of arterial duct stenting in hypoplastic pulmonary artery tree

O4-2

Santoro G., Giugno L., Capogrosso C., Gaio G., Palladino M.T., Russo M.G.

15:00

PRDM16 is a possible therapeutic target for heart failure

O4-3

Arndt A.-K., Schaefer S., Siebert R., Berger F., Kramer H.-H., MacRae C.A., Klaassen S.

15:15

Pressure volume relations obtained by 3D-real-time echocardiography and mini-pressure wire - multimodal validation-studies with MRI and conductance-catheter in piglets

O4-4

Herberg U., Ladage D., Gatzweiler E., Dewald O., Dörner J., Linden K., Seehase M., Doerr D., Nähle C., Breuer J.

15:30

Defining the pathogenic autoantibodies in congenital heart block

O4-5

Wahren-Herlenius M., Hoxha A., Ruffatti A., Ottosson L., Anandapadmanaban M., Tonello M., Punzi L., Sunnerhagen M.

O4-6

Impact of anti-HLA antibodies on survival and the development of coronary artery vasculopathy in paediatric heart transplant recipients

Day T.G., Burch M., Andrews R., McCloskey D., Gupta A., Fenton M.

Th 14:30–16:00

Moderated Posters 1 (General)

Meeting room 2

Chair: J. Stein (Innsbruck, Austria)

- MP1-1 Fibrillin 1 gene mutations in development of Tetralogy of Fallot
Ceylan Ö., Karademir S., Örün U.A., Tükün A., Özgür S., Doğan V.
- MP1-2 Left Ventricular Functions are Affected in Patients with Familial Mediterranean Fever
Ceylan Ö., Özgür S., Örün U.A., Doğan V., Yılmaz O., Keskin M., An M.E., Erdoğan Ö., Karademir S.
- MP1-3 Does vitamin D level affect cardiac ventricular functions in healthy children?
Doksöz Ö., Meşe T., Güven B., Karaarslan U., Kızılca Ö.D., Gülez P., Küçük M., Özdemir R., Yilmazer M.M., Nacaroglu T.H., Can D., Ünal N.
- MP1-4 Assessment of Left Ventricular Functions With Strain and Strain Rate Echocardiography in Children with Duchenne Muscular Dystrophy
Keskin M., Özgür S., Örün U.A., Ceylan Ö., Dogan V., Yılmaz O., Senocak F., Karademir S.
- MP1-5 The impact of vitamin D status on arterial functions and carotid intima-media thickness in healthy children
Doksöz Ö., Özkök D., Güven B., Gülez P., Meşe T., Çiftçi Ö., Ünal N.
- MP1-6 Treatment of Pulmonary Arterial Hypertension Using Sildenafil in Neonates with Bronchopulmonary Dysplasia
Fournier A., Trottier-Boucher M.N., Lapointe A., Malo J., Raboisson M.J., Martin B., Moussa A.
- MP1-7 The efficacy and reliability of biological markers in pediatric pulmonary hypertension
Pektas A., Kula S., Oğuz D., Tunaoglu S., Olguntürk R.
- MP1-8 In vitro analysis of the mechanisms of intravenous immunoglobulin and prednisolone for the prevention of coronary artery abnormalities in Kawasaki disease
Ueno K., Kawaminami K., Miyahara E., Morita Y., Ninomiya Y., Yanagimoto K., Eguchi T., Masuda K., Nomura Y., Kawano Y.
- MP1-9 GH Therapy Increases the Prevalence of Aortic Dilation in Patients with Turner's Syndrome
Alami Laroussi N., Dahdah N., Dallaire F., Thérien J., Fournier A.
- MP1-10 Pulmonary hypertension in the preterm infant with bronchodysplasia can be caused by pulmonary vein stenosis: a must-know entity
Laux D., Rocchisani M.A., Boudjemline Y., Fraisse A., Bonnet D., Ovaert C.
- MP1-11 Pulmonary hypoplasia associated to congenital heart diseases: a foetal study
Bonnet D., Ruchonnet-Metrailler I., Bessieres B., Vibushan S., Delacourt C.
- MP1-12 Hybrid procedure to postpone successful biventricular repair in left heart obstructive lesions with borderline left ventricle
Eyskens B., Cools B., Heying R., Denolf I., Louw J., Rega F., Meyns B., Gewillig M.
- MP1-13 Toxic Metals in Children's Heart Tissue
Koval O.P., Nagorna N.V., Mokryk I.Yu., Dubova G.V., Novack A.O., Muzychin O.O., Volodyn V.V., Usenko N.O., Kartashova O.O., Gaida S.B., Shvedka O.V., Bilyk A.O.
- MP1-14 Plastic bronchitis after extracardiac total cavopulmonary connection
Tanase D., Balling G., Eicken A., Hafnar-Samprec J., Schreiber C., Ewert P.
- MP1-15 Long standing cyanosis in congenital heart disease does not cause diffuse myocardial fibrosis
Kharabish A., Mkrtychyan N., Meierhofer C., Hadamitzky M., Nadjiri J., Martinoff S., Ewert P., Stern H., Fratz S.
- MP1-16 Preoperative dilatation of the right pulmonary artery is a risk factor for refractory respiratory complications late after the definitive repair of Tetralogy of Fallot with absent pulmonary valve
Iwasa T., Hoashi T., Kurosaki K., Sakaguchi H., Miyazaki A., Ohuchi H., Tsuda E., Yamada O., Kagisaki K., Ichikawa H., Shiraishi I.
- MP1-17 Does exercise training improve cardio-respiratory fitness and daily physical activity in adolescents with corrected tetralogy of Fallot or Fontan circulation? A randomized controlled trial
Duppen N., Etnel J.R.G., Spaans L., Takken T., van den Berg-Emons R.J., Boersma E., Schokking M., Dulfer K., Utens E.M.W.J., Helbing W.A., Hopman M.T.E.
- MP1-18 Clinical Evaluation of Intracardiac and Major Vessel Thrombosis in a Pediatric Cardiology Unit: A Single-Center Experience from Turkey
Tola H.T., Ergul Y., Saygi M., Ozyilmaz I., Guzeltas A., Odemis E., Bakir I.
- MP1-19 Left Ventricular Noncompaction in Childhood: Four Years Single Center Experience from Turkey
Tola H.T., Ergul Y., Sengul F.S., Saygi M., Ozyilmaz I., Guzeltas A., Odemis E., Bakir I.
- MP1-20 Genetic markers of early onset of arterial hypertension
Samarina O., Kovtun O., Chuykov A., Averyanov O.

- MP1-21 Impact of Cardiac MRI on Decision-making and Outcomes in Patients with a Borderline Left Ventricle
Wan A.W., Chaturvedi R., Yoo S.J., Grosse-Wortmann L., Lee K.J.
- MP1-22 Palivizumab prophylaxis in the infants with congenital heart disease: A controlled study from Turkey
Ozyurt A., Baykan A., Pamukcu O., Argun M., Uzum K., Zararsiz G., Narin N.
- MP1-23 Are general paediatricians able to accurately distinguish innocent from pathological murmurs in children?
Davidson C., Willcoxson F., Brown E.
- Th 16:00–16:30 Posters, Industry Exhibition and Coffee**
- Exhibition space**
- Th 16:30–18:00** Hands on live demonstration by the WG Cardiovascular Morphology I: Vascular rings and their anatomic variants
Chair: A. Angelini (Padua, Italy), T. Sarkola (Helsinki, Finland)
- Meeting room 3**
- Th 16:30–18:00 Abstract Session 5: Heart failure**
- Meeting room 1**
- 16:30 *Chair: J. Holm (Lund, Sweden), T. Ojala (Helsinki, Finland)*
Prognostic Variables and Their Powers Change Over Time in Fontan Survivors
O5-1 *Ohuchi H., Hayama Y., Noritake K., Negishi J., Mizuno M., Iwasa T., Miyazaki A., Yazaki S., Yamada O.*
- 16:45 Cellular immunodeficiency in patients with Failing-Fontan
O5-2 *Moosmann J., Metzler M., Cesnjevar R., Hartmann A., Dittrich S., Toka O.*
- 17:00 Paediatric Heart Failure from Heart Muscle Disease in the UK and Ireland: 5+ Year Follow Up
O5-3 *Andrews R.E., Fenton M.J., Burch M.*
- 17:15 Reversible Pulmonary Artery Banding for Left Ventricular-DCM with preserved RV function: effect on BNP biomarker and MRI-imaging
O5-4 *Steinbrenner B., Recla S., Gummel K., Latus H., Schmidt D., Apitz C., Bauer J., Thul J., Valeske K., Akintuerk H., Schranz D.*
- 17:30 First experience of Tolvaptan therapy in patients with Failing-Fontan and diuretic resistance
O5-5 *Moosmann J., Kopp C., Cesnjevar R., Uder M., Titze J., Dittrich S., Toka O.*
- 17:45 Usefulness of three-dimensional echocardiography in the evaluation of intraventricular dyssynchrony in children with refractory heart failure secondary to dilated cardiomyopathy and its correlation with QRS morphology and duration
O5-6 *Becerra-Becerra R., Balderrábano-Saucedo N.A., Cano-Hernández K.S., Tamayo-Espinosa T., Arévalo-Salas L.A., Erdmenger-Orellana J.R.*
- Th 16:30–18:00 Moderated Posters 2 (Imaging and Fetal)**
- Meeting room 2**
- MP2-1 *Chair: J. Eichhorn (Leverkusen, Germany)*
Knowledge-based 3D reconstruction compared to MRI for evaluation of right ventricular volumes and function in congenital heart diseases affecting the right ventricle
Khraiche D., Ladouceur M., Bonnet D., Guillard O., Raimondi F.
- MP2-2 Impaired Cardiac Mechanics in a Large Population of Children with Heart Transplantation: A Speckle Tracking and Three-Dimensional Echocardiography Study
Chinali M., Esposito C., Iacobelli R., D'Asaro M.G., Toscano A., Grutter G., Del Pasqua A., Iacomino M., Parisi F., Pongiglione G., Rinelli G.
- MP2-3 Global longitudinal diastolic and systolic right ventricular function decreases during medium-term follow-up of children with Hypoplastic Left Heart Syndrome
Michel M., Schlangen J., Petko C., Hansen J.H., Entenmann A., Voges I., Kramer H.-H.
- MP2-4 Aortopulmonary collateral flow in patients with cavopulmonary bypass is underestimated by fluoroscopic angiography compared to magnetic resonance flow measurements
Riesenkampff E., Shariat M., Drolet C., Yoo S.J., Redington A., Lee K.J., Taylor K., van Arsdell G., Grosse-Wortmann L.
- MP2-5 Clinical significance of left and right ventricle echocardiographic parameters in children with idiopathic pulmonary arterial hypertension
Ladouceur M., Khraiche D., Levy M., Raimondi F., Szezepanski I., Bajolle F., Boudjemline Y., Bonnet D.
- MP2-6 Surrogate echocardiographic parameters to assess right ventricular function in children with congenital heart disease or pulmonary hypertension
Khraiche D., Ladouceur M., Levy M., Raimondi F., Szezepanski I., Bajolle F., Boudjemline Y., Bonnet D.

- MP2-7 Right Ventricular Myocardial Deformation in Adult Patients with a Repaired Atrial Septal Defect
Menting M.E., Van den Bosch A.E., McGhie J.S., Cuypers J.A.A.E., Witsenburg M., Geleijnse M.L., Helbing W.A., Roos-Hesselink J.W.
- MP2-8 Speckle tracking strain echocardiography unmasks left ventricular systolic dysfunction in patients after neonatal coarctation repair
Ten Harkel A.D.J., Kuipers I.M., Rammeloo L., Rijlaarsdam M.E.B., Hazekamp M.G., Robillard L., Blom N.A.
- MP2-9 Echocardiographic Nomograms for Chamber Diameters, Area and Volumes in Children: Preliminary Data
Cantinotti M., Scalese M., Assanta N., Crocetti M., Festa P.L., Marotta M, Arcieri L., Pak V., De Lucia V., Molinaro S., Iervasi G., Murzi B., Spadoni I.
- MP2-10 Long axis dysfunction and stiff arteries in children with severe acute malnutrition in Kenya
Brent B., Obonyo N., Maitland K., Tulloh R.
- MP2-11 Right Ventricular Systolic Function in HLHS: A Comparison of manual and automated software to measure fractional area change
Markkanen H.K., Bellsham-Revell H.R., Chan F., Bell A.J., Pihkala J.I., Ojala T.H., Simpson J.M.
- MP2-12 Effect of inhaled nitric oxide on blood flow dynamics in patients after the Fontan procedure using standard CMR flow measurements
Latus H., Gummel K., Gerstner B., Kerst G., Apitz C., Schranz D., Bauer J.
- MP2-13 Coronary artery imaging in patients with Congenital Heart Disease: Improved image quality by the use of an intravascular contrast agent and specific MR sequence design
Dedieu N., Lossnitzer D., Makowski M., Wong J., Wiethoff A., Botnar R., Kiesewetter C., Razavi R., Schaeffter T., Greil G.
- MP2-14 The Effect of Albumin:Creatinine Ratio on Standard Echocardiographic Parameters in Adolescent Type 1 Diabetes
Bradley T.J., Slorach C., Cherney D.Z.I., Daneman D., Deda L., Dunger D.B., Elia Y., Har R., Hui W., Mahmud F.H., Moineddin R., Mertens L., Sochett E.
- MP2-15 Exploring Myocardial Function in Adolescent Type 1 Diabetes
Bradley T.J., Slorach C., Cherney D.Z.I., Daneman D., Deda L., Dunger D.B., Elia Y., Har R., Hui W., Mahmud F.H., Moineddin R., Sochett E., Mertens L.
- MP2-16 Three-dimensional echocardiography in Ebstein's anomaly of the tricuspid valve; a comparison with MRI
Ramakrishnan S., Deka P., Gupta S.K., Gulati G., Saxena A., Sharma S., Juneja R., Kothari S.S., Bahl V.K.
- MP2-17 Contrast echocardiography for screening of pulmonary arterio-venous fistula in children with portal hypertension
Tissot C., Mc Lin V., Wildhaber B.E., Aggoun Y., Beghetti M., Maggio A.
- MP2-18 From Studies to Clinical Practice: Screening for Anthracycline-Induced Cardiomyopathies with 2-dimensional Speckle-Tracking Derived Global Strain and Strain Rate – A Feasibility Study in Consecutive Outpatients
Spiestersbach H., Schmitt B., Berger F., Schmitz L.
- MP2-19 The Effect of Gender and Heart Rate on 2-dimensional Speckle-Tracking derived Strain and Strain Rate in Children and Young Adults
Spiestersbach H., Schmitt B., Berger F., Schmitz L.
- MP2-20 Subclinical Anthracycline Induced Cardiotoxicity in The Long-term Follow-up of Asymptomatic Childhood Cancer Survivors: a Speckle Tracking Echocardiographic Study
Babaoglu K., Başar EZ., Kayabey O., Çorapçioğlu F.
- MP2-21 Residual right ventricular outflow tract obstruction preserves right ventricular contractility in patients after repair of tetralogy of Fallot: a CMR feature tracking study
Latus H., Gummel K., Hachmann P., Khalil M., Moysich A., Yerebakan C., Akintuerk H., Bauer J., Schranz D., Apitz C.
- MP2-22 Fetal Tachyarrhythmia – transplacental treatment and longterm outcome in 153 subjects
Ekman-Joelsson B-M., Mellander M., Lagnefeldt L., Sonesson S-E.
- MP2-23 Clinical presentation of isolated transposition of the great arteries in a complete population based cohort. Implications for pre- and postnatal screening routines
Mellander M., Bartos M.
- MP2-24 Prenatal Diagnosis And Outcome For Fetuses With Congenital Absence of The Pulmonary Valve
Babaoglu K., Uzun O., Deveci M., Kayabey O.
- MP2-25 Idiopathic dilatation of the right atrium. Report of four fetal cases
Walter C., Carretero J.M., Bartrons J., Prada F.
- MP2-26 Fetal aortic valvuloplasty – how to improve outcome?
Dangel J., Debska M., Kolesnik A., Kraska A., Debski R.

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| Th 16:30–18:00 | Working Group Symposium - Prevention and Psychosocial: Cardiovascular risk in obesity |
| Helsinki-auditorium | <i>Chair:</i> F. Casey (Dublin, Ireland), B. Bjelakovic (Nis, Serbia) |
| 16:30 | Epidemiology of obesity and cardiovascular risk in Europe <i>Oberhoffer R.</i> |
| 16:50 | Genetic and epigenetic background <i>Gittenberger de Groot A.</i> |
| 17:10 | Cardiovascular consequences of obesity <i>Hansen H.</i> |
| 17:30 | Therapy and prevention of obesity in the young <i>Ehringer D.</i> |

Th 18:00–19:00 **Business Meeting AEPC/JSPCCS**
Meeting room 3

FRIDAY 23. MAY 2014

Fr 08:00–09:00 **Meeting: Council meets industry**

Helsinki-auditorium

Fr 08:00–09:00 **WG Business Meeting: Prevention**

Room A

Fr 08:00–09:00 **WG Business Meeting: Morphology**

Room B

Fr 08:00–09:00 **WG Business Meeting: GUCH Task Force**

Meeting room 2

Fr 08:00–09:00 **WG Business Meeting: Intensive care**

Meeting room 1

Fr 08:00–09:00 **WG Business Meeting: Psycho-Social Care from Fetus to Adult**

Meeting room 3

Fr 08:00–09:00 **Meeting: Drug Task Force**

Meeting room 4

Fr 09:00–10:30 **Joint Session AEPC/JSPCCS: Right ventricle under stress**

Room A

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| 09:00 | <i>Chair:</i> T. Nakanishi (Tokyo, Japan), E. Jokinen (Helsinki, Finland) Follow-up of the RV after TOF-repair <i>Beerbaum P.</i> |
| 09:20 | Evaluation of RV as the systemic ventricle <i>Yasukochi S.</i> |
| 09:40 | The options to treat the failing RV <i>Sano S.</i> |
| 10:00 | Evaluation of the hemodynamic performance/clinical state of the pediatric patient with pulmonary hypertension <i>Fraisse A.</i> |
| 10:20 | Discussion |

Fr 09:00–10:30 **Working Group Symposium - Electrophysiology: Arrhythmias in Adult CHD**

Helsinki-auditorium

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| 09:00 | <i>Chair:</i> J-M Happonen (Helsinki, Finland), J. Janousek (Prague, Czech Republic) Arrhythmias in Congenital Heart Disease - what is the substrate? <i>Paul T.</i> |
| 09:20 | Pharmacological therapy for tachyarrhythmias in Adult Congenital Heart Disease |
| 09:40 | Routine arrhythmia surgery for the prevention of atrial and ventricular arrhythmias in subpopulations of CHD? <i>Deal B.</i> |
| 10:00 | Catheter ablation of arrhythmias in congenital heart disease - indications and results |

Fr 09:00–10:30 Abstract Session 6: General 1

Meeting room 1

- 09:00 *Chair: J. Sunnegårdh (Gothenburg, Sweden), B. Bonello (Marseille, France)*
The relative role of echocardiography and magnetic resonance imaging in identifying critical lesions in patients with single-ventricle physiology, prior to bidirectional cavo-pulmonary connection (BCPC)
- O6-1 *Krupickova S., Quail M., Yates R., Gebauer R., Hughes M., Marek J.*
09:15 NT-proBNP in Acute Kawasaki Disease is Predictive of Coronary Artery Involvement
- O6-2 *Adjagba P., Desjardins L., Fournier A., Spiegelblatt L., Montigny M., Cousineau J., Delvin E., Dahdah N.*
09:30 Early detection of isolated coarctation of the aorta – still a challenging task
- O6-3 *Lannering K., Mellander M.*
09:45 High yield and therapeutic implications justifies genetic investigations in childhood hypertrophic cardiomyopathy
- O6-4 *Östman-Smith I.*
10:00 Neurodevelopmental Outcomes after Staged Palliation for Hypoplastic Left Heart Syndrome – Impact of Cerebral Tissue Oxygen Saturation
- O6-5 *Hansen J.H., Rotermann I., Jung O., Scheewe J., Kramer H.-H.*
10:15 Acute Vasodilator Response in Paediatric Pulmonary Arterial Hypertension: current clinical practice from the TOPP-registry
- O6-6 *Douwes J.M., Barst R.J., Humpl T., Beghetti M., Bonnet D., Schulze-Neick I., Ivy D.D., Berger R.M.F.*

Fr 09:00–10:30 Special program for nurses: Special issues in ICU care in congenital heart disease

Meeting room 2

- 09:00 *Chair: I. de Barbieri (Padua, Italy)*
Medical and nursing staff in the ICU - roles and responsibilities
Tuominen N.
- 09:20 Nursing advocacy in PICU
de Barbieri I.
- 09:40 Family Centered Care in cardiology intensive care unit, a path of improvement
Petrangeli F.
- 10:00 Core curriculum for pediatric cardiac critical care nurses across Europe?
de Barbieri I.
- 10:20 Discussion

Fr 10:30–11:30 Posters, Industry Exhibition and Coffee

Exhibition space

Fr 11:30–13:00 Young Investigators Award

Room A

- 11:30 *Chair: K. Brockmeier (Cologne, Germany), S. Yasukochi (Nagano, Japan)*
Telmisartan improves RV function and hypertrophy by modulating processes of fibrosis and autophagy in PA banded rat
- YIA-1 *Urashima T., Itohisa M., Mori T., Ito R., Kawachi S., Fujiwara M., Ida H.*
11:45 The Impact of the Stage I Palliative Strategy on Echocardiographic Changes in Cardiac Size and Function in Children with Hypoplastic Left Heart Syndrome. A comparison between the Norwood and the Hybrid approach
- YIA-2 *Grotenhuis H., Ruijsink B., Chetan D., Dragulescu A., Friedberg M.K., Kotani Y., Caldarone C.A., Honjo O., Mertens L.L.*
12:00 The importance of right atrium tension in patients after atriopulmonary Fontan procedure
- YIA-3 *Izumi G., Takeda A., Senzaki H., Abe J., Furukawa T., Yamazawa H., Takei K., Inai K., Shinohara T., Nakanishi T.*
12:15 Transcatheter Stenting and Upsizing of Stenosed GoreTex Grafts Delays Further Surgery in Complex Congenital Heart Disease
- YIA-4 *Penford G., Quandt D., Ramchandani B., Mehta C., Dhillon R., Bhole V., Stumper O.*
Survey of School Students indicated of Implantable Cardioverter-Defibrillators
- YIA-5 *Kato M., Ayusawa M., Watanabe H., Chou A., Komori A., Ohkuma H., Abe Y., Ichikawa R., Kamiyama H., Sumitomo N.*
12:30 3rd trimester fetal heart rate discriminates between non-carriers, carriers of single and double LQT1 mutations in Swedish Long QT Syndrome families
- YIA-6 *Winbo A., Fosdal I., Lindh M., Wettrell G., Rydberg A.*

- Fr 11:30–13:00** **Working Group Symposium - Electrophysiology: Inherited arrhythmia syndromes**
- Helsinki-auditorium** *Chair:* T Kriebel (Leverkusen, Germany), J-P Pfammatter (Berne, Switzerland)
- 11:30 Competitive Sports and the Athlete with LQTS: Who Says I Can't Play Anyway?
Ackerman M.
- 11:55 ICD's in inherited arrhythmia syndromes
Blom N.
- 12:20 CPVT - an update
- 12:40 Panel discussion: Genetic testing in inherited arrhythmia syndromes
- Fr 11:30–13:00** **Abstract Session 7: General 2**
- Room B** *Chair:* A. Petropoulos (Baku, Azerbaijan)
- 11:30 Executive functions development in children with transposition of the great arteries: A first longitudinal study
- 07-1 *Calderon J., Jambaque I., Bonnet D., Angeard A.*
- 11:45 Clinical Presentation, Therapy and Prognosis of Pulmonary Arterial Hypertension in Patients with Congenital Heart Defects: An Analysis Based on the Data of the German National Register for Congenital Heart Defects
- 07-2 *Diller G.P., Körten M.A., Bauer U.M.M., Miera O., Baumgartner H. (Competence Network for Congenital Heart Defects)*
- 12:00 Longitudinal Development of Psychopathology and Subjective Health Status in Congenital Heart Disease Adults: a 30-43 year Follow-Up in a Unique Cohort
- 07-3 *Utens E.M.W.J., Opic P., Roos-Hesselink J.W., Cuyper J.A.A.E., Witsenburg M., van den Bosch A.E., van Domburg R.T., Bogers A.J.J.C.*
- 12:15 Percutaneous pulmonary valve implantation for free pulmonary regurgitation after conduit-free RVOT plasty
- 07-4 *Boshoff D., Cools B., Brown S., Heying R., Frerich S., Vanagt W., Troost E., Budts W., Gewillig M.*
- 12:30 Can NT-ProBNP indicate the timing of the defect closure in children with ASD and VSD?
- 07-5 *Ozyurt A., Baykan A., Argun M., Pamukcu O., Uzum K., Zararsiz G., Narin F., Narin N.*
- 12:45 Long-term experience with Heart Transplantation in children and patients with congenital heart disease
- 07-6 *Di Filippo S., Henaine R., Veyrier M., Ducreux C., Ninet J., Sebbag L., Boissonnat P., Roussoulières A., Di Filippo S.*
- Fr 11:30–13:00** **Abstract Session 8: Imaging**
- Meeting room 1** *Chair:* O. Krogmann (Duisburg, Germany), H. Grotenhuis (Toronto, Canada)
- 11:30 Aortic and carotid stiffening in patients after successful coarctation repair and its impact on left ventricular diastolic function
- 08-1 *Voges I., Kees J., Jerosch-Herold M., Gottschalk H., Trentmann J., Scheewe J., Hart C., Gabbert D., Pardun E., Pham H., Wegner P., Hansen T., Kramer H.-H., Rickers C.*
- 11:45 Importance of haemodynamic right and left ventricular parameters and CPET-results in patients with Tetralogy of Fallot
- 08-2 *Meierhofer C., Tavakkoli T., Kühn A., Hager A., Müller J., Martinoff S., Ewert P., Stern H., Fratz S.*
- 12:00 Initial shunt type for the Norwood procedure affects long-term myocardial function in children with HLHS
- 08-3 *Markkanen H.K., Pihkala J.I., Salminen J.T., Sairanen H.I., Ojala T.H.*
- 12:15 Left ventricular preload is reduced in patients with tetralogy of Fallot and chronic pulmonary regurgitation
- 08-4 *Ylitalo P., Pitkänen O., Lauerma K., Holmström M., Jokinen E.*
- 12:30 Outcomes and 3D Echocardiographic Predictors of Mitral Valve Reconstruction for Congenital Mitral Valve Disease
- 08-5 *Lang N., Krizman E., Gauvreau K., Bueno A., Myers P., Baird C., Emami S., del Nido P., Marx G.*
- 12:45 Determinants of pulmonary valve replacement indication in repaired Tetralogy of Fallot patients: a multicenter experience
- 08-6 *Leonardi B., Ait-Alia L., Chinali M., Festa P., Trocchio G.L., Stragnaro N., Crepez R., Secinaro A., Cantarutti N., Albanese S., Pongiglione G.*
- Fr 11:30–13:00** **Special program for nurses: Professional development in paediatric cardiac nursing**
- Meeting room 2** *Chair:* E-L Bratt (Gothenburg, Sweden)
- 11:30 Optimising nurses' professional expertise and development
Combes J.
- 11:50 Physician's assistant in paediatric cardiology - role and training
Visser-Solognier E.

- 12:10 Advanced nursing practice within paediatric cardiology
Renwick C.
- 12:30 Do we need a European network in congenital heart disease nursing?
Bratt E-L.

Fr 13:00–14:30 Lunch

Exhibition space

Fr 13:10–14:25 INDUSTRY SYMPOSIUM - St. Jude Medical: Congenital heart disease: The boundaries of percutaneous closure

- Helsinki-auditorium** *Chair:* M. Carminati (Milan, Italy), P. Ewert (Munich, Germany)
- 13:10 Percutaneous ASD closure - What do we know today?
Carminati M.
- 13:30 The limits of percutaneous PDA closure
Ewert P.
- 13:50 Percutaneous embolization of abnormal vascular connections in CHD
Pihkala J.

Fr 14:30–16:00 Working Group Symposium - Joint AEP/ASE session on advanced echocardiography and functional MRI imaging

- Room A** *Chair:* O. Milanesi (Padua, Italy)
- 14:30 Echocardiography - how to run a state of the art echo laboratory
Mertens L.
- 14:50 How echocardiography helps us to understand the cardiovascular system better
Lopez L.
- 15:10 MRI & Echocardiography: Do we need both?
Eidem B.
- 15:30 Imaging in Paediatric Cardiology - too much for too little?
Marek J.
- 15:50 Discussion

Fr 14:30–16:00 Working Group Symposium - Intervention: Atrial septal defect : do we know everything?

- Helsinki-auditorium** *Chair:* G. Butera (Milan, Italy), P. Eriksson (Gothenburg, Sweden)
- 14:30 ASD and pulmonary resistances: different scenarios
Budts W.
- 14:45 ASD in the elderly: why, when and how to close
Chessa M.
- 15:00 Rhythm and conduction disorders after ASD closure
Kornyei L.
- 15:15 Erosion: any news?
Ewert P.
- 15:30 Closing the PFO - indications revisited
Sinisalo J.
- 15:45 Panel discussion

Fr 14:30–16:00 Hands on live demonstration by the WG Cardiovascular Morphology II: Univentricular heart malformations

Meeting room 3 *Chair:* L. Houyel (Paris, France), A. Gittenberger de Groot (Leiden, The Netherlands)

Fr 14:30–16:00 Moderated Posters 3 (Interventional and Surgery and Intensive care and General)

- Meeting room 2** *Chair:* E. Lechner (Linz, Austria)
- MP3-1 Long-term fate of children operated for the hypoplastic left heart syndrome in a country with high foetal termination rate and centralized paediatric cardiovascular care
Vojtovic P., Tlaskal T., Gebauer R., Hucin B., Reich O., Selko M., Chaloupecky V., Skovranek J., Tomek V., Krupickova S., Matejka T., Hecht P., Janousek J.
- MP3-2 Early clinical outcomes for fetuses with severe or greater tricuspid regurgitation in the era of cone reconstruction
Hoashi T., Kagisaki K., Mizuno M., Sakaguchi H., Kitano M., Kurosaki K., Tanaka H., Yoshimatsu J., Shiraishi I., Ichikawa H.
- MP3-3 Performance and survival of epicardial leads in pediatric patients and congenital heart disease patients. A 15 years single center experience with two unusual cases and a review of the literature
Paech C., Kostelka M., Riede F.T., Weidenbach M., Gebauer R.A.

- MP3-4 Early bidirectional cavopulmonary anastomosis: impact on outcome and Fontan completion
Ruf B., Balling G., Cleuziou J., Kasnar-Samprec J., Ewert P.
- MP3-5 Right ventricular outflow tract reconstruction without conduit in neonates with tetralogy of Fallot: comparison of pulmonary stenosis vs. pulmonary atresia
Zahorec M., Skrak P., Kovacicova L.
- MP3-6 Safety and Efficacy of Percutaneous closure of ventricular septal defect with Amplatzer duct occluder II in small children and adults
Kanaan M., Schubert S., Assa S., Schmitt K., Peters B., Berger F.
- MP3-7 Long-term outcomes and complications of transvenous pacemaker implantation in small infants
Vos L.M., Blank A.C., Kammeraad J.A., Freund M.W., Breur J.M.P.J.
- MP3-8 Transcatheter closure of congenital Coronary artery fistulae – Medium to long-term Outcome
Ahmad Z., Alwi M., Latif H.A., Kandavello G., Samion H.
- MP3-9 The pediatric interventionist “lost” in the upper abdomen – diagnosis and management of congenital portosystemic venous shunts, liver hemangioma and portal vein thrombosis in children
Knirsch W., Buehr P., Braegger C., Dave H., Moehrlen U., Schiestl C., Kellenberger C., Kretschmar O.
- MP3-10 Use of 3 dimensional rotational angiography in pediatric interventional cardiology
Breur J.M.P.J., van Lummel E.V.T.J., Molenschot M.M., Freund M.F., Krings G.K.
- MP3-11 Is percutaneous patent ducts arteriosus closure a safe and effective alternative to surgery in small infants?
Giugno L., Santoro G., Capogrosso C., Gaio G., Palladino M.G., Russo M.G.
- MP3-12 A population based study of survival and lifestyle assessment after staged surgical management of hypoplastic left heart syndrome in Croatia – 12 years study: Does the fact that surgery is performed in developed European centers but rest of care in small
Dilber D., Malcic I., Dasovic Buljevic A, Eicken A., Schreiber C., Kasnar-Samprec J., Ewert P., Tulzer G., Mair R., Saric D., Kniewald H., Bartonicek D, Glavas E.
- MP3-13 N-terminal pro-BNP Correlates with Myocardial Involvement in Patients with Acute Kawasaki Disease
Desjardins L., Fournier A., Dahdah N.
- MP3-14 Value of research of plasma homocysteine-risk factor for cardiovascular diseases, in obese school children
Dimitriu L., Dimitriu A.G.
- MP3-15 An Audit of Rheumatic Fever in South Wales Region
Wong J., Goel N., Wilson D., Ofoe V., Uzun O.
- MP3-16 Health Related Quality of Life in Pediatric Patients with Marfan’s syndrome
Steiner K.J., Wild J.M., Stark V., Mueller G.C., Arndt F., Weil J., Mir T.S.
- MP3-17 Surgical treatment of infective endocarditis in children and young adults
Hostasa J., Chaloupecky V., Tomek V., Tláškal T., Janoušek J.
- MP3-18 Relationships between renal vasculature abnormalities and arterial hypertension in children and adolescents
Giordano U., Secinaro A., Chinali M., Fabrizi E., Cafiero G., Turchetta A., Rollo M., Tomà P., Matteucci M.C.
- MP3-19 Establishment of a German Research Network for Congenital Heart Defects
Bauer U.M.M., Pickardt T., Asfour B., Baumgartner H., Bahlmann J., Berger F., Breithardt G., De Haan F., Hetzer R., Hofbeck M., Kececioglu D., Klaassen S., Kramer H.-H., Nürnberg J.H., Sarikouch S., Schmaltz A.A., Abdul-Khaliq H.
- MP3-20 Predictors of Left Ventricular Hypertrophy after Correction of Aortic Coarctation
Araújo A.R., Almeida C., Rassi L., Mendes I.C., Cordeiro S., Gaspar L., Carvalho S., Nogueira G., Menezes I., Anjos R.
- MP3-21 Myocardial infarction in Kawasaki disease patients
Bregel L., Subbotin V., Podkamenny V., Nadiradse Z.
- MP3-22 Cardiac rehabilitation in postoperated Tetralogy of Fallot children: an useful tool?
Castillo Martín J., Rodríguez-López A., García-Cuenillas L., Centeno M., Camino M, Medrano C., Rodríguez A., Zunzunegui J.L., Maroto E., Álvarez T., Ballesteros F., Panadero E.
- MP3-23 Total Anomalous Pulmonary Venous Connection: Clinical Presentation and Long Term Outcome of 60 Patients at a Single Institution in 32 Years
Uzun O., Babaoglu K., Bendapudi P., Wong A., Parry A., Ofoe W., Caputo M., Wilson D., Musumeci F.

Fr 16:00–16:30 Posters, Industry Exhibition and Coffee

Exhibition space

Fr 16:30–18:00 Working group symposium - Morphology: The Scimitar Syndrome Revisited

Room A

- 16:30 *Chair:* D. de Wolf (Gent, Belgium)
Embryology
Jongbloed M.
- 16:45 Morphological spectrum and genetic basis
Angelini A.
- 17:00 Physiopathology and Diagnosis
Milanesi O.
- 17:15 Imaging and Interventional approach
Valsangiacomo E.
- 17:30 Surgical approach and results of the European Registry
Vida V.

Fr 16:30–18:00 Abstract Session 9: GUCH

Meeting room 1

- 16:30 *Chair:* J. Sinisalo (Helsinki, Finland)
Main pulmonary artery area limits exercise capacity in patients long-term after arterial switch operation for Transposition of the Great Arteries (TGA)
- 09-1 *Baggen V.J.M., Driessen M.M.P., Sieswerda G.Tj., Jansen N.J.G., Takken T., van Wijk S.W.H., Leiner T., Meijboom F.J., Schoof P.H., Breur J.M.P.J.*
- 16:45 Right Ventricular Myocardial Deformation and Ventricular-Ventricular Interaction in Adults with Corrected Tetralogy of Fallot
- 09-2 *Menting M.E., Van den Bosch A.E., McGhie J.S., Eindhoven J.A., Cuypers J.A.A.E., Witsenburg M., Geleijnse M.L., Helbing W.A., Roos-Hesselink J.W.*
- 17:00 Long-term outcome and late morbidity of adolescent and adult patients with Fontan circulation
- 09-3 *Kramer P., Mössinger L.S., Alexi-Meskishvili V., Miera O., Peters B., Photiadis J., Berger F., Ovroutski S.*
- 17:15 Coronary anatomy and lumen area in patients after the arterial switch operation: a long term follow-up study
- 09-4 *Driessen M.M.P., Schouten-Netten K.J., Breur J.M.P.J., van Wijk W.H.S., Jansen N.J.G., Schoof P.H., Sieswerda G.Tj., Leiner T., Meijboom F.J.*
- 17:30 Causes of Hemoptysis in Eisenmenger Syndrome – A CT Angiography Study
- 09-5 *Ramakrishnan S., Joseph J., Gulati G., Gupta S.K., Saxena A., Jagia P., Juneja R., Kothari S.S., Sharma S., Bahl V.K.*
- 17:45 Quantitative Assessment of Systolic Right Ventricular Function and its Relationship with NT-proBNP in Patients with a Systemic Right Ventricle
- 09-6 *Eindhoven J.A., Menting M.E., Van den Bosch A.E., McGhie J.S., Geleijnse M.L., Witsenburg M., Boersma H., Roos-Hesselink J.W.*

Fr 16:30–18:00 Joint Session AEPC/EACTS: Management of complex pulmonary arterial stenosis: Interventional, surgery or hybrid

Helsinki-auditorium

- 16:30 *Chair:* S. Qureshi (London, UK), E. da Cruz (Denver, USA)
Complex pulmonary artery stenosis - Imaging strategies
Eichhorn J.
- 16:45 Complex pulmonary artery stenosis - Transcatheter treatment
Nakanishi T.
- 17:00 Complex pulmonary artery stenosis - Surgical approach
Cicek S.
- 17:15 Complex pulmonary artery stenosis - Hybrid procedures: the interventionist's view
Butera G.
- 17:25 Complex pulmonary artery stenosis - Hybrid procedures: the surgeon's view
Sarris G.
- 17:35 Panel discussion

Fr 16:30–18:00 Moderated Posters 4 (Electrophysiology 1 Basic 1 Prev 1 GUCH)

Meeting room 2

- MP4-1 *Chair:* N. Blom (Leiden, The Netherlands), Panelists: D. Ehringer (Wien, Austria) and R. Gebauer (Leipzig, Germany)
Catheter ablation of supraventricular tachycardias in children and adolescents – safety and effectiveness
Backhoff D., Bahrke S., Kriebel Th., Müller M.J., Schneider H.E., Paul Th., Krause U.

- MP4-2 The use of electroanatomic mapping for diagnosis of arrhythmogenic right ventricular cardiomyopathy
Kubuš P., Riedlbauchová L., Materna O., Janoušek J.
- MP4-3 QT correction methods in children
Benatar A., Dewals W., Decraene T., Feenstra A.
- MP4-4 Clinical spectrum of frequent premature ventricular contractions in children
Turska-Kmiec A., Ziolkowska L., Sobielarska D., Kawalec W., Czarnowska E., Kosciesza A., Daszkowska J., Biernatowicz M., Bieganowska K., Brzezinska-Rajszys G., Zuk M.
- MP4-5 Comparison of Cryo- vs. Radio-Frequency-Current-ablation in patients with av-nodal-reentry-tachycardia [AVNRT]
Emmel M., Khalil M., Udink ten Cate F.E.A., Brockmeier K., Sreeram N.
- MP4-6 Development of a Whole Heart Model in Patients with Tetralogy of Fallot
Pflaumer A., Butler C., Jones B., Rice J., Gurev V., Reumann M.
- MP4-7 Do sick children with severe acute malnutrition in Kenya die of arrhythmia?
Brent B., Obonyo N., Hickmann M., Maitland K., Tulloh R.
- MP4-8 Prolonged QTc in atrial septal defect – an example of mechano-electrical feedback due to right ventricular volume overload?
Rücklova K., Koubsky K., Janoušek J.
- MP4-9 Drug-induced Brugada Syndrome in Children: Clinical Features, Device-based management and long-Term Follow-up
Benatar A., Dewals W., De Asmundis C., Chierchia G.B., Brugada P.
- MP4-10 Myocardial Perfusion Single Photon Emission Computed Tomography (SPECT) in children with ventricular arrhythmias
Turska-Kmiec A., Sobielarska D., Biernatowicz M., Ziolkowska L., Kawalec W., Czarnowska E., Kosciesza A., Daszkowska-York J., Kowalczyk M., Knecht M., Zubrzycka M.
- MP4-11 Comparison of a simplified, minimally invasive, non-fluoroscopic approach for catheter ablation of supraventricular arrhythmias in children and adults
Ras M., Stec S., Sledz J., Mazij M., Ludwik B., Skiba E., Spikowski J., Kusa J.
- MP4-12 Transseptal Perforation for Radiofrequency Catheter Ablation in Patients with Fontan Procedure
Toyohara K., Nishimura T., Takeuchi D., Nakanishi T.
- MP4-13 Genetic diagnosis of early-onset cardiomyopathies using next-generation sequencing technologies
Vasilescu C., Carroll C.J., Brilhante V., Hiippala A., Jokinen E., Tyni T.A., Ojala T.H., Suomalainen A.
- MP4-14 Influence of aortic valvuloplasty by tricuspidalization and leaflet extensions on proximal aorta morphology in bicuspid aortic valve
Kantorova A., Kaldararova M., Vrsanska V., Nagi A.S., Nosal M.
- MP4-15 Recovery of long-term volume overloaded right ventricle after pulmonary valve implantation in patients with ToF repair
Kaldararova M., Kantorova A., Berecova Z., Neuschl V., Vrsanska V., Harencarova A., Nosal M., Hulman M., Masura J., Simkova I.
- MP4-16 Clinical, neurohormonal and psychological predictors of survival in patients with congenital heart disease
Kourkoveci P., Rammos S., Parissis J., Maillis A., Kremastinos D., Paraskevaidis I.
- MP4-17 Percentiles for central blood pressure in childhood
Elmenhorst J., Hulpke-Wette M., Dalla Pozza R., Springer S., Oberhoffer R.
- MP4-18 Tipping the Scales – Distribution of Body Mass Index in Adults with Congenital Heart Disease
Cullington D., Balerdi M., Oliver J., Ballard G., Thomson J.D.R., Birkett J., Pick E., Quirk J., English K.
- MP4-19 Is there a link between ferritin and the cardiac function in anorexic adolescents ?
Docx M.K.F., Simons A., Gewillig M., Vandenberghe Ph., Mertens L.
- MP4-20 Screening for cardiac risk in children and young adolescent athletes - data from outpatient sports clinic
Batinica M., Alić A.

SATURDAY 24. MAY 2014

Sa 09:00–10:30 **Joint Session AEPC/APPCS: Heterotaxy syndromes - still a challenge**

Room B *Chair: A. Saxena (New Delhi, India), K. Hanseus (Lund, Sweden)*

09:00 Epidemiology in the era of prenatal diagnosis
Herberg U.

09:20 Rhythm disturbances in heterotaxy syndromes
Hu M-W.

- 09:40 Extracardiac morbidity in heterotaxy syndrome
Di Filippo S.
- 10:00 Long term outcome in heterotaxy syndromes
Saxena A.

Sa 09:00–10:45 Working Group Symposium - Intensive care and Surgery

- Room A** *Chair:* E. Lechner (Linz, Austria), J. V. Comas (Madrid, Spain)
- 09:00 Pulse oximetry screening of neonates
Martin G.
- 09:20 ICU staff and surgeons in the ICU - roles and responsibilities
Sarris G.
- 09:30 ICU staff and surgeons in the ICU - roles and responsibilities
Da Cruz E.
- 09:40 Discussion
- 09:45 Delayed closure of the sternum in the neonate - when and for whom?
Rautiainen P.
- 09:55 Delayed closure of the sternum in the neonate - when and for whom?
Bennink G.
- 10:05 Discussion
- 10:10 BT shunt or PDA stent - the ICU view?
Sano S.
- 10:20 BT shunt or PDA stent - the ICU view?
Tissot C.
- 10:30 Discussion

Sa 09:00–10:30 Abstract Session 10: Intervention

- Meeting room 1** *Chair:* G. Døhlen (Oslo, Norway), A. Wan (Edmonton, Canada)
- 09:00 Long-term results of complex treatment of middle aortic syndrome in children
- O10-1 *Brzezinska-Rajszyz G., Zubrzycka M., Rewers B., Antoniewicz J., Turska-Kmiec A., Kawalec W., Kosciesza A., Ostoja-Chyzynska A., Bacewicz L., Kalicinski P., Burczynski P., Kolesnik A.*
Significance of 3DRA in the cath lab for congenital heart disease
- 09:15 *Glöckler M., Halbfass J., Stenger A., Dittrich S.*
- O10-2 The Melody valved stent is more vulnerable for endocarditis than homografts or Contegra conduits in RVOT
- 09:30 *Van Dijk I., Budts W., Eyskens B., Cools B., Heying R., Louw J., Boshoff D., Frerich S., Vanagt W., Troost E., Meyns B., Rega F., Gewillig M.*
- O10-3 Experience with the Cook Formula balloon expandable stent in congenital heart disease
- 09:45 *Quandt D., Ramchandani B., Penford G., Bhole V., Mehta C., Dhillon R., Stumper O.*
- O10-4 One Year Follow-Up of the PREMIER Multicenter Registry for the Edwards SAPIEN Pulmonic Transcatheter Heart Valve: An Interim Report
- 10:00 *Ewert P., Al-Halees Z., Biernacka E.K., Pongiglione G., Haas N., Mullen M., Schubert S., Odemis E., Birk E., Mandinov L., Gewillig M.*
- O10-5 Pre and post operative characteristics of tetralogy of Fallot patients undergoing primary repair versus initial RVOT stent palliation
- 10:15 *Sandoval J.P., Chaturvedi R., Morgan G., Eastaugh L., Benson L., Lee K.J.*
- O10-6

Sa 10:30–11:00 Posters, Industry Exhibition and Coffee

Exhibition space

Sa 11:00–12:30 Working Group Symposium Intervention: Successes and failures in the cath lab

- Room A** *Chair:* D. Boshoff (Leuven, Belgium), S. Qureshi (London, UK)

Sa 11:00–12:30 Working Group Symposium - Fetal cardiology: Fetal myocardial dysfunction and its consequences

- Room B** *Chair:* J. C. Areias (Porto, Portugal), M. Mellander (Gothenburg, Sweden)
- 11:00 Assessment of fetal cardiac function - an overview
Sharland G.
- 11:20 Fetal cardiovascular physiology assessed by MRI
Seed M.
- 11:40 The failing right ventricle
Herberg U.

12:00 Fetal brain abnormalities and neurodevelopmental outcome after a fetal diagnosis of CHD
Jowett V.

Sa 11:00–12:30 Abstract Session 11 Surgery/Intensive Care

Meeting room 1

- 11:00 *Chair:* N. Haas (Bad Oeynhausen, Germany), S. Cicek (Istanbul, Turkey)
Non-invasive measurements of energy expenditure and respiratory quotient in children on extracorporeal membrane oxygenation by respiratory mass spectrometry
Li J., Li X.H., Yu X.Y., Andriy C.
- O11-1 11:15 Noninvasive measurement of cerebral hemodynamics and oxygen metabolism in neonates and infants with congenital heart defects
Hofbeck M., Sandner K., Haller C., Fink C., Neunhoeffler F.
- O11-2 11:30 Tracheal reconstruction in patients with aortic arch anomalies and tracheomalacia
Ziesenitz V.C., Springer W., Gorenflo M., Sebening C., Karck M., Loukanov T.
- O11-3 11:45 Reoperation for Right Ventricular Outflow Tract Obstruction After Arterial Switch Operation for TGA and Aortic Arch Obstruction
Bökenkamp R., Aguilar E., Sojak V., Bruggemans E., Rijlaarsdam M.E.B., Hruda J., Kuipers I., Hazekamp M.
- O11-4 12:00 Decreased airway epithelial sodium transport in chronically hypoxemic patients with cyanotic congenital heart defect
Kaskinen A., Helve O., Andersson S., Rautiainen P., Mattila I., Pitkänen O.
- O11-5 12:15 Long-term results of Ross procedure in a population-based follow-up
Kallio M., Pihkala J.I., Mattila I.
- O11-6

Sa 12:40–13:40 Keynote Lecture and closing

Room A

- 12:40 *Chair:* K Brockmeier (Cologne, Germany)
Prevention of coronary heart disease starts in childhood
Jokinen E.

WEDNESDAY, MAY 21 to SATURDAY, MAY 24, 2014

Poster area

Posters

**Arrhythmia/
electrophysiology**

- P-1 Effects of methylphenidate treatment on the heart rate variability in patients with attention deficit and hyperactivity disorder
Kocabaş A., Çetin İ., Ekici F., Arı M.E., Eminoğlu S., Güney E., Dinç G.Ş., Göker Z., Aktaş D.
- P-2 Sotalol and sinus arrest; an unreported side effect in children resulting in presyncope
Ceviz N., Olgun H., Yolcu C., Sahin I.
- P-3 Successful endocardial catheter ablation of epicardial premature ventricular complexes by contact force-guided lesion size formation
Kerst G., Gonzalez Y Gonzalez M.B., Lambert H., Moysich A., Apitz C., Latus H., Schmidt D., Schreieck J., Schranz D.
- P-4 Efficacy of Implantable Loop Recorders in Establishing Symptom-Rhythm Correlation in Children with Unexplained Syncope; The first experience from Turkey
Ergul Y., Tanidir I.C., Ozyilmaz I., Akdeniz C., Tuzcu V.
- P-5 Can the use of flecainide for incessant refractory supraventricular tachycardia reduce ablation requirements in neonates and infants?
Ergul Y., Ozyilmaz I., Tola H.T., Akdeniz C., Tuzcu V.
- P-6 Swallowing Syncope in a 14 year-old girl with an atypical course of the oesophagus
Henn K., Pohler J., Fritsche K., Dundurs D., Kriebel T.
- P-7 Life threatening QT prolongation associated with congenital hydrocephalus in a preterm infant
Paech C., Gebauer R.A., Weidenbach M., Knüpfer M.
- P-8 Increased Microvolt T-wave Alternans in Pediatric Patients with Renal Failure Before Developing Severe Hypertrophy and Arrhythmia
Hallioğlu O., Keceli M., Delibas A., Cıtrık D., Selvi H.
- P-9 Sudden arrhythmic death syndrome (SADS): Diagnostic yield of comprehensive clinical evaluation of paediatric first-degree relatives
Giudici V., Spanaki A., Hendry J., Mead-Regan S., Field E., Bryant R., Ralph J., Abrams D., Lowe M., Kaski J.P.
- P-10 Heterogeneity of ventricular repolarization in newborns with intrauterine growth restriction
Karatza A.A., Fouzas S., Davlouros P.A., Chrysis D., Alexopoulos D., Mantagos S., Dimitriou G.

- P-11 Monitoring Flecainide levels in Paediatric Arrhythmias
Rehman R., Patel D., Taliotis D.
- P-12 Rhythm status in contemporary Fontan patients
Bossers S.S.M., Duppen N., Kapusta L., Maan A.C., Duim A.R., van Iperen G., Helbing W.A., Blom N.A.
- P-13 PocketECG - a new noninvasive, continuous and real-time ambulatory ECG monitoring in children with non-diagnosed tachycardia episodes – the first experiences
Bieganowska K., Miszczak-Knecht M., Brzezinska M., Kaszuba A., Posadowska M., Pręgoska K., Werner B.
- P-14 The First Documentation Of Direct Contact Force Measurement In Catheter- induced Trauma During Ablation Of Atrial Tachycardia In Young Boy - Case Report
Ras M., Stec S., Sledz J., Mazij M., Klank-Szafran M., Celej Z., Kusa J.

Basic science

- P-15 Neonatal myocardium is more sensitive to ischemia than the adult one
Lueck S., Delis A., Schaefer M., Pliquett U., Preusse C.J.
- P-16 A missense mutation in the actin cardiac gene ACTC1 results in a varieties of congenital heart malformations and midline defects
Bouvagnet P., Augière C., El Zein L., Megarbane A.
- P-17 Possible involvement of IL-23/IL-17 axis in pathogenesis of Kawasaki disease like vasculitis
Suzuki C., Nakamura A., Okigaki M., Miura N., Ohono N., Yahata T., Okamoto-Hamaoka A., Yoshioka A., Ikeda K., Hamaoka K.
- P-18 Possible implication of Proline-rich tyrosine kinase 2 (Pyk2) in the pathogenesis of Kawasaki disease
Suzuki C., Nakamura A., Okigaki M., Miura N., Ohono N., Yahata T., Okamoto-Hamaoka A., Yoshioka A., Ikeda K., Hamaoka K.
- P-19 Influence of *S. aureus* coagulases on bacteria-vessel wall interactions in infective endocarditis
Claes J., Vanassche T., Hoylaerts M., Heying R., Verhamme P.
- P-20 Homozygous loss-of-function mutation causes the lethal disorder mitogenic cardiomyopathy in two siblings
Louw J.J., Corveleyn A., Jia Y., Iqbal S., Boshoff D., Gewillig M., Peeters H., Moerman P., Devriendt K.
- P-21 Trio analysis using Next generation sequencing technology to identify de novo mutations in individuals with syndromic cardiopathy
Louw J.J., Corveleyn A., Jia Y., Gewillig M., Devriendt K.
- P-22 Sympathetic arousal in response to acute and chronic stress
Visnovcova Z., Mestanik M., Jurko A.Jr., Jurko A., Tonhajzerova I.
- P-23 Prognostic value of BNP in newborns with congenital heart defects
Neves A.L., Henriques-Coelho T., Leite-Moreira A., Monterroso J., Vilan A., Guimarães H., Guimarães J.T., Matias A., Areias J.C.
- P-24 The Effect of modafinil in pulmonary hypertension rat models
Bae H.K., Lee H.R., Kim K.C., Suh S.H., Hong Y.M.
- P-25 Changes of pulmonary pathology and genes according to dose of umbilical cord blood derived mesenchymal stem cells in monocrotaline-induced pulmonary artery hypertension rat
Hong Y.M., Bae H.K., Lee H.R., Kim K.C., Yang Y.S., Oh W.I., Choi S.J.
- P-26 How to Correctly Evaluate Blood Pressure Values in Children? Strengths, Limitations and Gaps of Current Pediatric Blood Pressure Nomograms: a Critical Review
Cantinotti M., Assanta N., Scalese M., Crocetti M., Marotta M., Arcieri L., Pak V., De Lucia V., Spadoni I., Iervasi G., Ghione S., Murzi B.
- P-27 Molecular lesions in right ventricular infundibulum in Tetralogy of Fallot
Shammy S., Arun S., Gayathri A.K., Jaleel A., Sureshkumar R., Kartha C.C.
- P-28 Tissue engineered heart valve leaflet substitute in orthotopic aortic position in a sheep model – preliminary results
Schweiger M., Knirsch W., Cesarovic N., Bettex D., Lemme F., Romanchenko O., Frauenfelder T., Weber B., Hoerstrup S.P., Kretschmar O., Hübler M.

End-stage heart and lung disease

- P-29 Left Ventricular Assist Device Support for 2 Months Followed by V-A ECMO for 68 Days as a Bridge to Cardiac Transplantation in an Infant with Dilative Cardiomyopathy
Kosmac B., Knezevic I., Mazic U., Grosej Grenc M., Poglajen G., Vrtovec B., Pavcnik M.

- P-30 Effect of cardiac resynchronization therapy in children with dilated cardiomyopathy and refractory heart failure with a narrow QRS complex
Balderrabano-Saucedo N.A., Townsend-Nava S., Becerra-Becerra R., Tamayo-Espinosa T., Cano-Hernández K.S., Arévalo-Salas L.A., Romero-Cárdenas P., Ruíz-González S., Bolio-Cerdán A., Erdmenger-Orellana J.R.
- P-31 Diagnostics and clinical patterns of idiopathic pulmonary hypertension in Russia. A two-center study
Miklashevich I.M., Ivanov S.N., Gorbatih Yu.N., Volkov R.B., Shkolnikova M.A.

Fetal cardiology

- P-32 Abnormal ductus venosus peak velocity index measured during fetal echocardiographic examination can predict failure of functional closure of the foramen ovale in the postnatal period
Yozgat Y., Kilic A., Karadeniz C., Ozdemir R., Kucuk M., Karaarslan U., Mese T., Unal N.
- P-33 Impact of Gestational Diabetes Mellitus on Fetal Cardiac Morphology and Performance
Atik F., Pac F.A., Alhan A., Ekici E.
- P-34 Congenital Heart Disease and the Placenta
Sekar P., Albalawi A., Ehsanipoor R., Askin.F.
- P-35 Prenatal diagnosis of cardiac tumours and postnatal outcomes
Mota C.C.C., Capurço C.A.B., Jamil L.C., Palmerston M.F.
- P-36 Prenatal diagnosis of Tricuspid Atresia in a family with heritability positive for NKx2.5 mutation, atrial septal defect and atrioventricular block
Cairello F., Tuo G., Paladini D., Faravelli F., Marasini M.
- P-37 Characteristics of the Atrial Septum in Foetuses with d-Transposition of the Great Arteries
Tuo G., Buffi D., Volpe P., De Robertis V., Puncuh F., Zannini L., Marasini M.
- P-38 Left ventricular systolic function in preterm and term neonates: Calculation of reference values and of z-score values of the M-mode derived mitral annular plane systolic excursion
Koestenberger M., Nagel B., Ravekes W., Binder C., Avian A., Pansy J., Cvirm G., Urlesberger B., Rehak T., Gamillscheg A.
- P-39 Fetal left ventricular non compaction cardiomyopathy and fatal outcome due to deficiency of mitochondrial trifunctional protein
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