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Cardiology in the Young

ABSTRACTS

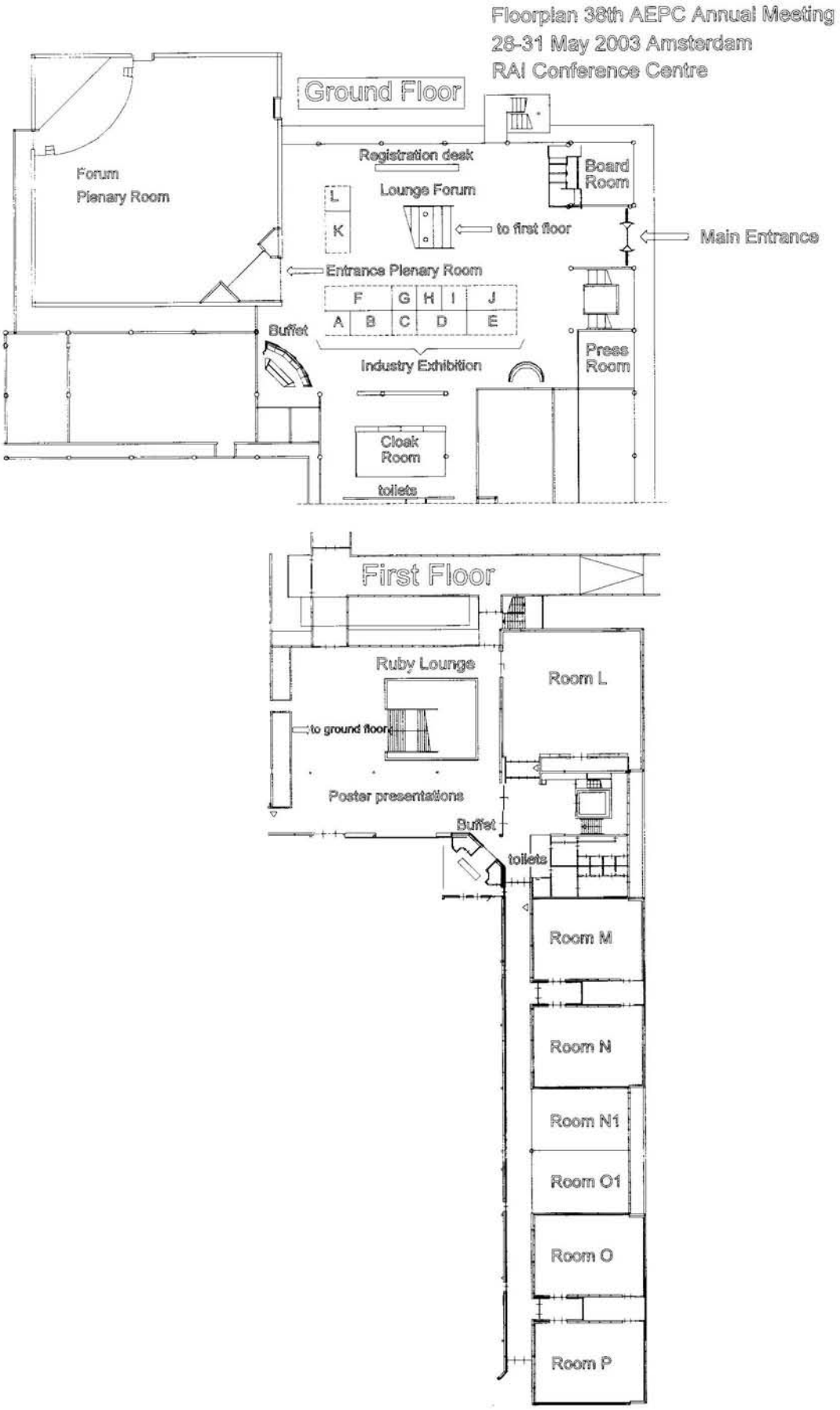


Association for European Paediatric Cardiology
Association Européene pour la Cardiologie Pédiatrique
XXXVIII Annual General Meeting

Amsterdam, 28–31 May 2003



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Cardiology in the Young

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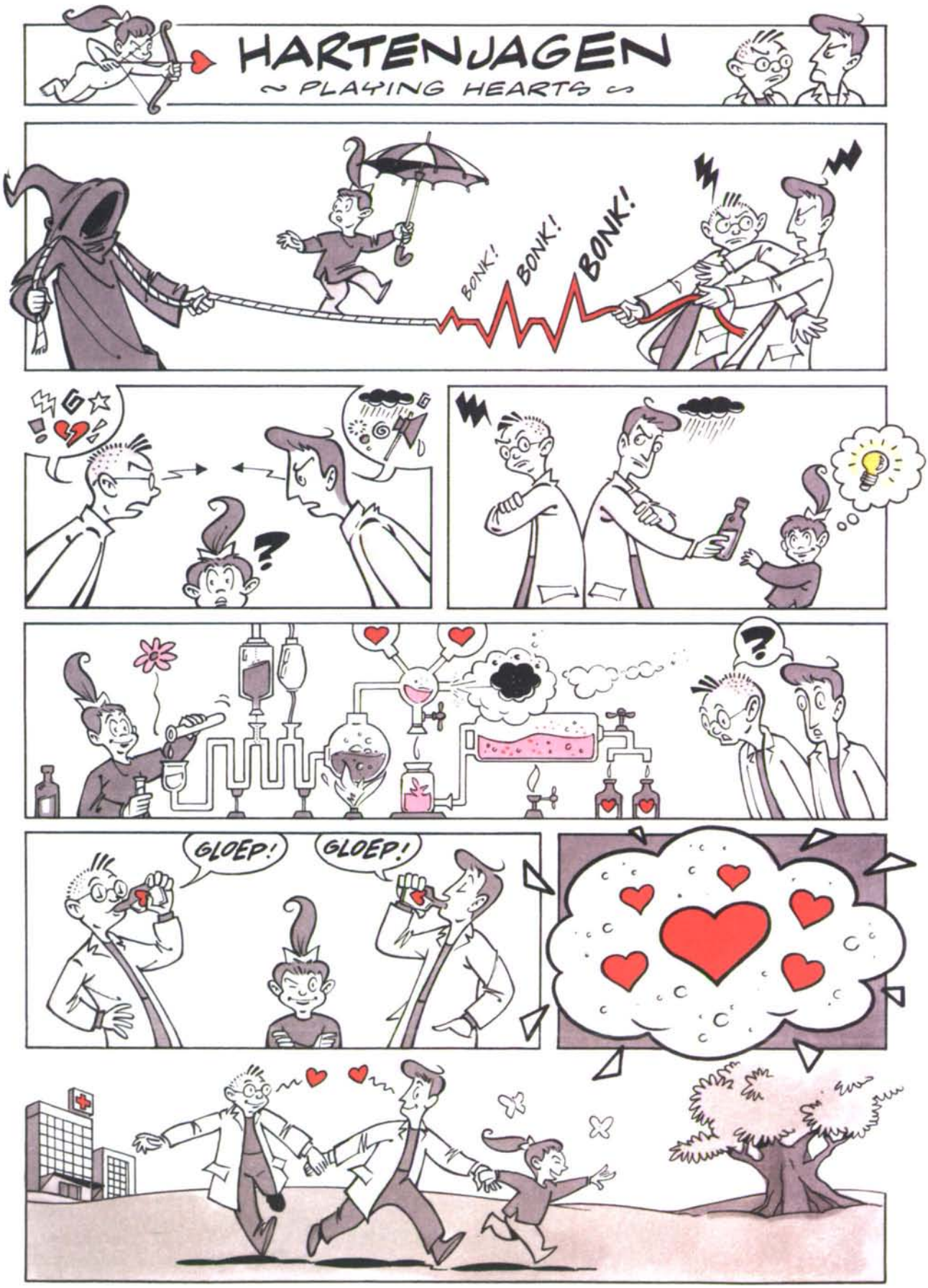
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Wednesday, 28 May 2003 **15:30–17:45** **Forum**

Opening Ceremony

Welcome address by the president of AEPC

★

Mannheimer Lecture

★

Welcome address by the local chairman

★

Musical Entertainment with the premier of "Playing Hearts".
This song is especially created for the AEPC conference.
The moral is illustrated in the cartoon.

Chorus:

"Wise ladies and smart men,
Don't play hearts on me.
Listen to what I have to say,
Working together is the only remedy."

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XXXVIII Annual Meeting of
The Association for European Paediatric Cardiology
Amsterdam, 28–31 May, 2003

SCIENTIFIC PROGRAMME

PREORGANISED SESSIONS

Time **Room**

Wednesday, 28 May 2003

08:15–15:00 **Teaching session of the AEPC Working Group on Fetal Cardiology** **L**
Chairs: *I. Oberhänsli-Weiss (Geneva, CH) & G. Sharland (London, UK)*

08:15 Morphology of the Normal Heart
A. Wenink (Leiden, NL)
08:45 Echo – normal structure and function from the late first trimester to term
J. Dangel (Warsaw, PL)
09:15 Discussion
09:30 Morphology of common structural abnormalities detected in the fetus
A. Cook (London, UK)
10:00 Echo diagnosis of common structural lesions in the fetus
R. Oberhoffer (Munich, D)
10:30 Recognition and interpretation of unusual scan findings
G. Sharland (London, UK)
11:00 Outcome and effect of prenatal diagnosis of structural lesions
J. Le Bidois (Paris, FR)
11:30 Discussion
11:50 **Break/Lunch** **Lounge**

Chairs: *Jose Areias (Porto, PT) & new president of FCWG*

12:30 Abnormal ventricular function – assessment and implications
G. Tulzer (Linz, AT)
13:00 Can venous Doppler help the fetal cardiologist?
S. Gudmundsson (Malmö, SE)
13:30 Discussion
13:45 Bradycardias
K. Schmidt (Düsseldorf, D)
14:15 Tachycardias
S. Sonesson (Stockholm, SE)
14:45 Discussion
15:00 **Break** **Lounge**

Mannheimer Lecture **Forum**
15:30 Improving the care of patients with congenital heart disease: and adult focus
G. Webb (Toronto, CA)

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16:15–20:00	**Official opening ceremony**	
16:15	Welcome address and musical entertainment	**Forum**
17:45	Reception, posters and exhibition	**Lounge**
19:00–22:00	**Medtronic Dinner Discussion** Chairs: *M. Hazekamp (Leiden, NL) & H. Vliegen (Leiden, NL)*	**L**

Thursday, 29 May 2003

08:00–08:45	**Business meetings for AEPC Working Groups (Dysrhythmia, Imaging, Fetal, Intervention, Basic Science, GUCH)**	
08:45	Abstract presentations: Fetal	**Forum**
	Abstract presentations: GUCH	**L**
10:15	Break	
11:00	Abstract presentations: Arrhythmia	**L**
	Abstract presentations: Basic sciences	**M**
11:00–12:30	**Industry sponsored symposium: NuMED** Moderator: *M. Carminati (Milan, IT)*	**Forum**
11:00	Reconstruction of RVOT *A. Frigiola (Milan, IT)*	
11:15	Pulmonary regurgitation – the extent of the problem and its implications *M. Gatzoulis (London, UK)*	
11:30	Assessment of pulmonary regurgitation by MRI *R. Razavi (London, UK)*	
11:45	Live case demonstration of transcatheter pulmonary valve replacement *P. Bonhoeffer (London, UK)* ***<timing of live transmission is subject to change>***	
12:30	**Lunch**	**Lounge**
	Poster walk	**Lounge**
	Business meetings for AEPC Working Groups (Morphology, Psychosocial)	
13:15	Short slides presentation	**L**
13:15–14:45	**Industry sponsored symposium: GE meeting** Chairs: *W. Helbing (Rotterdam, NL) & S. Qureshi (London, UK)*	**Forum**
13:15	Tissue Doppler Imaging – current technology *G. Sutherland (Leuven, BE)*	
13:30	Application of tissue Doppler imaging in CHD *L. Mertens (Leuven, BE)*	
13:45	Prenatal echocardiography *J. Marek (Prague, CZ)*	
14:05	Prenatal 3-D/4-D echocardiography *G. Tulzer (Linz, AT)*	
14:25	Intra-operative ultrasound *O. Stümper (Birmingham, UK)*	

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15:00	**State of the Art Lecture** Congenital cardiology in adolescents and adults *M. Gatzoulis (London, UK)*	**Forum**
15:45	Break	**Lounge**

16:30–18:00	**AEPC WG Imaging: Imaging collaterals in Pulmonary Atresia with MAPCAs**	**Forum**
16:30	Role of Angiography *J.F. Piechaud (Paris, FR)*	
16:50	Role of Multislice CT *J.F. Paul (Paris, FR)*	
17:10	Role of MRI *L. Sieverding (Tübingen, D)*	
17:30	Discussion	

16:30–18:00	**AEPC WG Morphology: Inherited cardiomyopathies at risk of sudden death** Chairs: *G. Thiene (Padova, IT) & J. Ottenkamp (Leiden/Amsterdam, NL)*	**L**
16:30	Long QT syndrome *C. Napolitano (Pavia, IT)*	
16:50	Brugada syndrome *A. Wilde (Amsterdam, NL)*	
17:10	Effort ventricular tachycardia *B. Bauce (London, UK)*	
17:30	Arrhythmogenic right ventricular cardiomyopathy/dysplasia *C. Basso (Padova, IT)*	
17:50	General discussion	

13:15–16:15	**Anatomical demonstration followed by hands-on session *(break 14:30–14:45)*** *Y. Ho (London, UK)*	**M**

20:00–21:30	**Official AEPC cultural event sponsored by AGA**	**Forum**

A piano–violin concert will be given with performances by:
Helena Sedy-Plohjar
Martha Sobotka-Plohjar
Arnold Wenink
You are all invited to join!

Friday, 30 May 2003

08:15	Abstract presentations: Intervention	**Forum**
	Abstract presentations: Surgery	**L**
09:45	Break	**Lounge**

10:15	**State of the Art Lecture** Hypoplastic Left Heart Syndrome – from (before) birth until after TCPC (and longer) *H. Kramer (Kiel, D)*	**Forum**

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11:00–12:30 **AEPC WG Intervention** **Forum**
Chairs: *A. Szatmari (Budapest, HU) & J. Weil (Hamburg, D)*

- Cutting balloons: indications, limitations and complications
  M. Gewillig (Leuven, BE)
- Interventional strategies for the management of venous and arterial thrombosis/stenosis
  M. Peuster (Bad Oeynhausen, D)
- Uses, benefits and problems with vascular closure devices (e.g. vasoseal)
  J. De Giovanni (Birmingham, UK)
- Non-surgical closure of perimembranous VSD
  M. Carminati (Milano, IT)

11:00–12:30 **AEPC WG Dysrhythmia: Advances in device therapy in paediatric arrhythmias** **L**
Chair: *C. Wren (Newcastle upon Tyne, UK)*

- Indications for ICD implantation in paediatrics and CHD
  N. Blom (Leiden, NL)
- Technique and result of ICD implantation
  T. Kriebel (Gottingen, D)
- Evolving modalities in pacing and lead extraction
  J. Janousek (Prague, CZ)

12:30 **AEPC General Business Meeting** **Forum**
Lunch **Lounge**

14:00 Short slides presentation **L**

14:00–15:30 **Industry sponsored symposium: Philips meeting** **Forum**
Chairs: *O. Daniels (Nijmegen, NL) & L. Mertens (Leuven, BE)*

14:00 Cardiac MRI
P. Beerbaum (Bad Oeynhausen, D)
14:20 3-dimensional fetal echocardiography
P. Acar (Toulouse, FR)
14:40 MRI interventional suite
R. Razavi (London, UK)
15:00 New developments and future perspectives in cardiac imaging
an update from Philips
15:15 Panel discussion
15:30 Break **Lounge**

16:15–17:45 **AEPC WG GUCH: Emergencies and congenital heart disease** **Forum**
Chairs: *J. Hess (Munich, D) & I. Oberhänsli-Weiss (Geneva, CH)*

16:15 Emergency hospital admissions in adults with congenital heart disease: scope of the problem
H. Kaemmerer (Munich, D)
16:30 Discussion
16:35 Syncope in adults with congenital heart disease
E. Oechslin (Zurich, CH)
16:50 Discussion

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16:55 Diagnosis and management of acute arrhythmia in adults with congenital heart disease
B. Zrenner (Munich, D)
17:10 Discussion
17:15 Sudden death in adults with congenital heart disease
J. Deanfield (London, UK)

16:15–17:45 AEPC WG Interventions **L**
Complications in the catheter lab ("I blew it" trophy)
Panelists: *J.F. Piechaud (Paris, F), M. Witsenburg (Rotterdam, NL), S. Qureshi (London, UK) & J. Weil (Hamburg, D)*

Patients with complications after interventional catheterisations will be presented by:
1. *A. van Oort (Nijmegen, NL)*
2. *G. Agnoletti (Paris, FR)*
3. *L. Mertens (Leuven, BE)*
4. *G. Brzezinska-Rajszys (Warsaw, PL)*
5. *F. Berger (Zürich, CH)*
6. *J. De Giovanni (Birmingham, UK)*

14:00–17:00 Anatomical demonstration followed by hands-on session **M**
(break 14:30–14:45)
Y. Ho (London, UK)

Saturday, 31 May 2003

08:15 Abstract presentations: Imaging **Forum**
Abstract presentations: Interventions **L**
09:45 Break **Lounge**
10:30 Abstract presentations: General **Forum**
Abstract presentations: Interventions **L**
12:00–13:00 Lunch **Lounge**

19:30–23:30 Gala Evening
The Gala Evening takes place in the Dutch Maritime Museum at the heart of Amsterdam's characteristic harbour.
Bus transfers have been arranged from the official conference hotels to the dinner venue and back. The buses will depart at **19:00 hrs** from the hotels. Please make sure to be in time.

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ABSTRACT SESSIONS

Thursday, 29 May

SESSION 1 (08:45–10:15): Fetal

Chairs: *J. Marek (Prague, CZ) & A. Azancot (Paris, FR)*

08:45 **01** Recurrence of congenital heart disease in fetuses with familial risk, referred for fetal echocardiography
V. Fesslova, L. Villa (Milan, I)

08:55 **02** Spectrum and one-year outcome of prenatally diagnosed cardiac malformations
G. Döring, J. Hess, A. Zimmermann, K.T.M. Schneider, R. Oberhoffer (Munich, D)

09:05 **03** Prenatal study of fetal endocardial echogenicity and its association with maternal toxoplasmosis
L.H.S. Nicoloso, P. Zielinsky, T.Z. Hinke, E.I. Gus, J.L. Mânica, F. Satler, A.L. Piccoli Jr (Porto Alegre, BR)

09:15 **04** Relationship of maternal autoimmune response to clinical manifestations in children with congenital complete heart block
E. Marianne, M. Aaro, W. Timo, C. Edward, J. Heikki (Helsinki, FI)

09:25 **05** Prenatally diagnosed complete atrio-ventricular block with and without structural heart disease in the 1990s: management and outcome
E.T. Jaeggi, L.K. Hornberger, J. Smallhorn, F. Proulx, J.C. Fouron (Toronto, CA)

09:35 **06** Treatment of fetal tachycardia with sotalol: transplacental pharmacokinetics and pharmacodynamics
M.A. Oudijk, J.M. Ruskamp, F.F.T. Ververs, E.B. Ambachtsheer, Ph. Stoutenbeek, G.H.A. Visser, E.J. Meijboom (Utrecht, NL)

09:45 **07** Congenital heart disease and outcome in Turner's syndrome diagnosed prenatally
I.C. Huggon, E. Surerus, L.D. Allan (London, UK)

09:55 **08** Chromosome aberrations in children with congenital heart defects. Analysis of microscopic and submicroscopic abnormalities
W. Wiebe, R. Schellberg, G. Schwanitz, R. Raff (St. Augustin, Bonn, D)

10:05 **09** Foetal and neonatal cardiomyopathies: a series of 81 patients
B. Pagis, L. Fermont, J. Le Bidois, D. Sidi, A. Goldenberg, F. Iserin, V. Cormier-Daire, A. Munnich, P. Rustin, D. Bonnet (Paris, FR)

Thursday, 29 May

SESSION 2 (08:45–10:15): GUCH

Chairs: *G. Webb (Toronto, CA) & B. Lundell (Stockholm, SE)*

08:45 **10** The changing practice of GUCH surgery 1990–2002
S.K. Srinathan, R.S. Bonser, B. Sethia, S.A. Thorne, W.J. Brawn, D.J. Barron (Birmingham, UK)

08:55 **11** Plamsa BNP level and chronic heart failure syndrome in adults with congenital heart disease
K. Norozi, R. Buchhorn, D. Bartmus, A. Hagen, Ch. Kaiser, G. Hess, L. Binder, A. Wessel (Gottingen, D)

09:05 **12** Cyanotic congenital cardiac disease in adults: new findings on hematologic and serologic variables
S. Fratz, H. Kaemmerer, S.L. Braun, K. Kölling, A. Eicken, S. Brodherr-Heberlein, K. Pietrzik, J. Hess (Munich, Bonn, DE)

09:15 **13** Carotid and femoral intima-media thickness in adult patients succesfully operated for aortic coarctation
J.W.J. Vriend, E. De Groot, D. Samson, W.J. Stok, J.J.P. Kastelein, B.J.M. Mulder (Amsterdam, NL)

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09:25 **14** Spontaneous decrease in severity occurs frequently in pulmonary but not in aortic valvar stenosis
M. Pavlovic, M. Zürcher, B. Leu, J. Pfammatter (Berne, CH)

09:35 **15** Bicuspid Aortic Valve (BAV): median and long term follow up
R.M. Bini, S. Favilli, I. Pollini, L. De Simone, G. Calabri, L. Capuzzo (Firenze, IT)

09:45 16 Health status and quality of life in children post-Fontan procedure – comparison to their healthy siblings
B.W. McCrindle, S. Knezevich, E. Radojewski, G. Cullen-Dean, W.G. Williams (Toronto, CA)

09:55 **17** Long-term outcome and quality of life after Fontan operation
A.E. van den Bosch, J.W. Roos-Hesselink, R. van Domburg, F.J. Meijboom (Rotterdam, NL)

10:05 **18** Right ventricular function analysis after repair of Tetralogy of Fallot (TOF) by an angiocardiographic pressure-volume loop: Options and limitations
A. Uebing, G. Fischer, F.K. Schmiel, D.G. Onnasch, H.-H. Kramer (Kiel, D)

Thursday, 29 May

SESSION 3 (11:00–12:30): Arrhythmias/Pulmonary Hypertension
Chairs: *J. Hebe (D) & E. Rosenthal (London, UK)*

11:00 **19** ECG Differentiation of AV node reentrant tachycardia from AV reciprocating tachycardia mediated by concealed accessory pathway in children
E.T. Jaeggi, T. Gilljam, U. Bauersfeld, C. Chiu, R.M. Gow (Toronto, Ottawa, CA, Goteborg, SE & Zurich, CH)

11:10 **20** Cardiac resynchronization therapy in congenital heart disease
J. Janousek, V. Razek, V. Tomek, V. Chaloupecky, P. Vojtovic, T. Tlaskal, R. Gebauer, B. Hucin (Prague, CZ)

11:20 **21** Multicenter cryoablation experience in pediatric patients
G.J. Gross, J.A. Kirsh, R. de Ponti, M. Dubuc, A. Fournier, M. Sturmer, C. Chiu, S. O'Connor, R.M. Hamilton (Toronto, Montreal, Kirkland, CA & Varese, IT)

11:30 **22** Influence of bradycardia on right ventricular function after the atrial baffle procedure for transposition of great arteries
J. Janousek, R.A. Gebauer, O. Reich, V. Chaloupecky, J. Skovranek (Prague, CZ)

11:40 **23** Automatic implantable cardioverter-defibrillators in pediatric patients in The Netherlands
N.A. Blom, R. Tukkie, D.J. Ten Harkel, A. Reimer, N. Sreeram, M.T.E. Bink-Boelkens (Leiden, Amsterdam, Rotterdam, Nijmegen, Utrecht, Groningen, NL)

11:50 **24** Cardiac index and endurance time to exercise test during vvir and av sequential pacing in children with VDD/DDD pacemakers: the effect of atrioventricular delay settings
A. Celiker, O. Baspinar, T. Karagoz (Ankara, TR)

12:00 **25** Neurophysiologic abnormalities in children treated with amiodarone
E. Dilber, B. Kaymak, R. Celiker, S. Özer, A. Celiker (Ankara, TR)

12:10 **26** Current experience with Bosentan (Tracleer) in the treatment of primary and secondary pulmonary hypertension in children
M. Vogel, S. Maiya, S.G. Haworth (London, UK)

12:20 **27** Aerosolized versus intravenous iliprost in secondary pulmonary hypertension in children with congenital heart disease
O. Hallioglu, E. Dilber, A. Celiker (Ankara, TR)

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Thursday, 29 May

SESSION 4 (11:00–12:30): Basic Sciences

Chairs: *M.C. Seghaye (Munich, D) & J. Parsons (Leeds, UK)*

11:00 **28** Increased myocardial MMP-2 activity after resuscitation with 100% O_2 in hypoxic newborn piglets
W. Børke, B. Munkeby, K. Bjørnland, E. Thaulow, B. Halvorsen, O. Saugstad (Oslo, N)

11:10 **29** Vascular mediators in the flow-or pressure-overloaded pulmonary circulation
R. Zimmermann, D. Tsikas, I. Michel-Behnke, D. Schranz, J. Kreuder (Giessen, Hannover, D)

11:20 **30** The myocardial expression of growth factors in infants with congenital cardiac defect involves the activation of the Jak/STAT pathway
M. Qing, K. Schumacher, F. Haas, M. Sokalska, J. Hess, R. Lange, M.-C. Seghaye (Munich, D)

11:30 **31** Myocardial volume and organization are changed by failure of addition of secondary heart field myocardium to the cardiac outflow tract
T.M. Yelbuz, K.L. Waldo, X. Zhang, M. Zdanowicz, J. Parker, T.L. Creazzo, G.A. Johnson, M.L. Kirby (Münster, D & Durham, USA)

11:40 **32** Characterization of chronic right ventricular pressure overload in young lambs: evidence of a hyperplastic response
B.P.J. Leeuwenburgh, W.A. Helbing, A.C.G. Wenink, P. Steendijk, A.C. Gittenberger-de Groot, J. Baan, A. van der Laarse (Leiden, Rotterdam, NL)

11:50 **33** Systolic left ventricular dysfunction and compensatory dilatation in juvenile rats treated with glucocorticosteroids in neonatal period
M.P. Bal, W. de Vries, F. van der Leij, E.E. van der Wall, J. Baan, F. van Bel, P. Steendijk (Leiden, Groningen, Utrecht, NL)

12:00 **34** Bradykinin prevents arterial endothelial dysfunction caused by ischemia-reperfusion in humans
P. Liuba, E. Pesonen, O. Werner, S. Batra, A. Maxedius (Lund, SE)

12:10 **35** Acute infections in children promote oxidative modification of LDL, and are followed by thickening of carotid intima-media
P. Liuba, E. Pesonen, J. Persson, J. Luoma, S. Ylä-Herttuala (Lund, SE)

12:20 **36** Carvedilol improves I123-metaiodobenzylguanidine (MIBG) uptake and left ventricular ejection fraction in children with dilated cardiomyopathy
F. Iserin, C. Maunoury, P. Acar, Y. Boudjemline, C. Beyler, E. Villain, D. Sidi, D. Bonnet (Paris, FR)

Friday, 30 May

SESSION 5 (08:15–09:45): Intervention

Chairs: *J.F. Piechaud (Paris, FR) & M. Carminati (Milan, IT)*

08:15 **37** Coil closure of very large (>5 mm) patent ductus arteriosus by bioptome assisted simultaneous multiple coil delivery technique
R.K. Kumar, B.R.J. Kannan, S.R. Anil, K. Sivakumar (Kochi, IND)

08:25 **38** Stent implantation in the ductus arteriosus versus surgical aorto-pulmonary shunt in duct dependent congenital heart disease – a retrospective study
I. Michel-Behnke, H. Akintuerk, M. Luedemann, J. Thul, M. Mueller, K.-J. Hagel, J. Bauer, K. Valeske, J. Kreuder, R. Zimmermann, D. Schranz (Giessen, D)

08:35 **39** Stenting the neonatal arterial duct in duct dependent pulmonary circulation: new techniques, better results
M. Gewillig, D.E. Boshoff, L. Mertens, B. Eyskens, L.N. Benson (Leuven, BE & Toronto, CA)

08:45 **40** Evolving use of stent implantation for preserving patency of the arterial duct in cyanotic neonates
E. Rosenthal, P. Chandak, S.A. Qureshi (London, UK)

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08:55 **41** In-vivo results of MRI guided stent placement using patient safe automated catheter visualization and slice tracking with an optically switchable resonant marker
T. Kuehne, S. Weiss, M. Gutberlet, P. Ewert, I. Schulze-Neick, R. Felix, P. Lange (Berlin, Hamburg, DE)

09:05 **42** Preliminary results of genesis stents in native and post-operative pediatric congenital cardiac lesions: a multi-institutional study
Z. Amin, J.M. Ringewald, P. Moore, T. Fagan, D. Turner, G. Felix, Z.M. Hijazi, T.J. Forbes (Omaha, USA)

09:15 **43** Endovascular stents for coarctation of the aorta: initial results and intermediate-term follow-up
G. Brzezinska-Rajszys, M. Zubrzycka, R. Sabiniewicz, M. Chojnicki, J. Bialkowski, M. Szkutnik, J. Ksiazyk, B. Rewers, J. Erecinski, S.A. Qureshi, M. Tynan (Warsaw, Gdansk, Zabrze, PL & London, UK)

09:25 **44** Middle aortic syndrome in children – results of interventional treatment (single centre experience)
M. Zubrzycka, G. Brzezinska-Rajszys, J. Ksiazyk, B. Rewers, S.A. Qureshi, M. Tynan, A. Jonczyk, G. Kowalik, A. Kosciesza, W. Kawalec, A. Turska-Kmiec, B. Maruszewski (Warsaw, PL)

09:35 **45** Rapid right ventricular pacing is an alternative to adenosine in catheter interventional procedures for congenital heart disease
I. Daehnert, M. Wiener, C. Rotzsch, P. Schneider, H.J. Haeusler (Leipzig, D)

Friday, 30 May

SESSION 6 (08:15–09:45): Surgery

Chairs: *B. Maruszewski (Warsaw, PL) & A. Serraf (Paris, FR)*

08:15 **46** Risk factors for postoperative morbidity and length of stay in 99 consecutive patients following Stage I Norwood reconstruction
M. Kuijpers, M.C. Van Rossem, B.S. Marino, S. Tabbutt, J.W. Gaynor, T.L. Spray, G. Wernovsky (Philadelphia, USA)

08:25 **47** Early primary repair of Tetralogy of Fallot: low prevalence of early arrhythmias
E. Lechner, R. Mair, R. Gitter, E. Grohmann, J. Steiner, G. Tulzer (Linz, A)

08:35 **48** Ventricular assist devices in children
A.T. Fuchs, U. Roemer, R. Kozlik-Feldmann, S. Daebritz, B. Reichart, H. Netz (Munich, D)

08:45 **49** Heart transplantation in children following mechanical circulatory support with pulsatile pneumatic assist device
B. Stiller, R. Hetzer, Y. Weng, M. Hübler, M. Hummel, E. Hennig, N. Nagdyman, H. Lehmkuhl, M. Redlin, P.E. Lange (Berlin, D)

08:55 **50** Influence of balanced ultrafiltration on plasma and urinary cytokine homeostasis and renal dysfunction during cardiac surgery in newborns and infants
S. Dittrich, D. Aktuerk, S. Seitz, M. Krause, P. Mehwald, T. Doenst, C. Schlensak, D. Kececioglu (Freiburg, D)

09:05 **51** Hypoplastic aortic arch in newborns rapidly adapts to postcoarctectomy circulatory conditions
L. Kiraly, L. Környei, A. Szatmari (Budapest, H)

09:15 **52** Self-expandable valved stent: off-bypass implant in pulmonary position
A.F. Corno, J. Zhou, C. Huber, P. Tozzi, L.K. von Segesser (Lausanne, CH)

09:25 **53** Early results of the bovine jugular vein for right ventricular outflow tract reconstruction
H. Dave, A. Kadner, S. DiBernardo, F. Berger, U. Bauersfeld, M. Turina, R. Prêtre (Zurich, CH)

09:35 **54** Performance of Contegra bovine valved jugular vein conduits for pediatric RVOT-reconstruction – 3.5 years experience with 108 implantations
T. Breymann, D. Boethig, R. Goerg, W.-R. Thies, U. Blanz, R. Koerfer (Bad Oeynhausen, D)

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Saturday, 31 May

SESSION 7 (08:15–09:45): Imaging

Chairs: *G. Bjorkhem (Lund, SE) & W. Helbing (Rotterdam, NL)*

08:15 **55** Non-invasive diagnosis of congenital vascular anomalies in newborns and infants: multi-slice CT-angiography and partially parallel 3D-MR-angiography
J. Eichhorn, C. Fink, W. Springer, R. Dunckelmann, M. Bock, S. Delorme, H.E. Ulmer (Heidelberg, D)

08:25 **56** Pulmonary blood flow pattern in patients with Fontan circulation depicted by cine MRI
A. Hager, S. Fratz, J. Hess, M. Schwaiger, H. Stern (Munich, D)

08:35 **57** Hearts late after Fontan – operation have normal mass, normal volume and reduced systolic function – a magnetic resonance imaging study
A. Eicken, S. Fratz, Ch. Gutfried, G. Balling, J. Hess, M. Schwaiger, H. Stern (Munich, D)

08:45 **58** Myocardial perfusion of the anatomic right systemic ventricle in patients with congenitally corrected
M. Hauser, F.M. Bengel, A. Kuehn, A. Hager, S.G. Nekolla, H. Kaemmerer, M. Schwaiger, J. Hess (Munich, D)

08:55 **59** The systemic right ventricle in patients after atrial switch repair for TGA compared to congenitally corrected TGA (ccTGA) – a study by magnetic resonance imaging (MRI)
H. Stern, A. Hager, S. Fratz, H. Kaemmerer, M. Hauser, M. Schwaiger, J. Hess (Munich, D)

09:05 **60** Regional left ventricular function in patients with ALCAPA late post repair: an ultrasound-based regional strain and strain rate imaging study
G. Di Salvo, B. Eyskens, P. Claus, J. D'Hooge, B. Bijnens, B. Suys, D. De Wolf, M. Gewillig, G.R. Sutherland, L. Mertens (Leuven, BE)

09:15 **61** The impact of cardiac MRI in the optimal timing for pulmonary valve replacement in severe pulmonary regurgitation after repair for Tetralogy of Fallot
E.R. Valsangiacomo, T. Hany, U. Bauersfeld (Zurich, CH)

09:25 **62** Surgical correction of HOCM in children by a new approach
L.A. Bockeria, K.V. Borisov, A.F. Sinyov, E.V. Zlotchevskaya (Moscow, RUS)

09:35 **63** Non-invasive assessment of stent lumen patency using MRI in swine
T. Kuehne, M. Gutberlet, P. Ewert, I. Schulze-Neick, H. Abdul-Khaliq, B. Schmitt, R. Felix, P. Lange (Berlin, D)

Saturday, 31 May

SESSION 8 (08:15–09:45): Interventions 2

Chairs: *H. Sievert (Frankfurt, D) & F. Berger (Zurich, CH)*

08:15 **64** Transcatheter closure of perimembranous ventricular septal defects with the Amplatzer asymmetric ventricular septal defect occluder in children. Further experience and follow-up
B.D. Thanopoulos, M.L. Rigby, G.S. Tsaousis, E. Karanasios, S.S. Simeuvovic, C. Stefanadis (Athens, GR, London, UK & Belgrade, New YU)

08:25 **65** Perimembranous ventricular septal defect occlusion in children, using the transcatheter patch
E.B. Sideris, B. Macuil, S. Toumanides, M. Poursanov (Athens, GR)

08:35 **66** Percutaneous closure of perimembranous septal defects
G. Butera, M. Carminati, M. Chessa, A. Giamberti, G. Pomé, D.G. Negura, L. Piazza, A. Delogu, L. Rosti (Milan, IT)

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08:45 **67** Transcatheter closure of congenital ventricular septal defects by the amplatzer VSD occluder device: mid-term follow-up
M. Chessa, G. Butera, G.D. Negura, L. Piazza, M. Drago, R. Youssef, M. Carminati (Milan, IT)

08:55 **68** Percutaneous closure of perimembranous ventricular septal defect – initial experience in the British Isles
O. Franklin, G. Derrick, P. Bonhoeffer, N. Wilson, K. Walsh (London, UK)

09:05 **69** Transcatheter therapy of vascular occlusions affecting the venous or arterial circulation
M. Peuster, J. Reckers, C. Fink (Bad Oeynhausen, Hamburg, D)

09:15 **70** Percutaneous closure of patent foramen ovale for paradoxical embolism in patients with and without a thrombophylic condition
A. Donti, A. Giardini, R. Formigari, G. Bronzetti, D. Prandstraller, M. Bonvicini, F.M. Picchio (Bologna, IT)

09:25 **71** Do we have to expect atrial fibrillation after transcatheter closure of interatrial communications? Single center experience in 1184 patients
T. Trepels, S. Ostermayer, K. Billinger, K. Horvath, U. Krumsdorf, H. Sievert (Frankfurt, D)

09:35 **72** Transcatheter closure of paravalvar leaks using the Amplatzer muscular VSD occluder and gianturco coils
W.A.K. Radtke, V.M. Bandisode, R. Villavicencio, B.R. Waller (Charleston, USA)

Saturday, 31 May

SESSION 9 (10:30–12:00): General

Chairs: *I. Ostman-Smith (Göteborg, SE) & M. Schneider (D)*

10:30 **73** CardioPat – a comprehensive computer system which uses the European Paediatric Cardiology Code for documenting medical data in a clinical environment
C. Camphausen, H. Meyer (Bad Oeynhausen, D)

10:40 **74** Complete atrioventricular septal defect: surgical outcome of biventricular repair in relation to preoperative echocardiographic measurements
G. Ciotti, R.A. Johnson, K. Booker, I. Peart, M. Pozzi (Liverpool, UK)

10:50 **75** Systemic embolism in children with myocarditis
M. Sadiq, N. Haider, F. Ahmed, A. Khan (Lahore, PAK)

11:00 **76** Carvedilol in pediatric patients with myocardial failure
S. Läer, F. Behn, H. Scholz, T.S. Mir, M. Eiselt, J. Weil (Hamburg, D)

11:10 **77** Modulation of neurohormonal activity after carvedilol therapy in pediatric patients with heart failure
A. Giardini, R. Formigari, G. Bronzetti, D. Prandstraller, A. Donti, M. Bonvicini, F.M. Picchio (Bologna, I)

11:20 **78** Clinical feature of Kawasaki Disease in infants younger than 3 months of age
W. Himeno, T. Akagi, M. Ishii, Y. Maeno, D. Urabe, K. Ohbu, H. Kato, T. Matsuishi (Kurume, J)

11:30 **79** Identification of high-risk status among patients with childhood hypertrophic cardiomyopathy
I. Östman-Smith, G. Wettrell, B. Keeton, T. Riesenfeld, D. Holmgren, U. Ergander (Gothenburg, Lund, Stockholm, S & Southampton, UK)

11:40 **80** Management of children with severe pulmonary hypertension
S. Maiya, M. Vogel, S.G. Haworth (London, UK)

11:50 **81** Levosimendan is a pulmonary vasodilator in children after cardiac surgery
K. Hartenstein, I. Schulze-Neick, Y.C. Luther, B. Stiller, N. Nagdyman, M. Hübler, A. Koster, P.E. Lange (Berlin, D)

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Saturday, 31 May

SESSION 10 (10:30–12:00): Interventions 3/General
Chairs: *D. Schranz (Giessen, D) & M. Sadiq (Punjab, PAK)*

10:30 **82** Left ventricular pressure–volume relationship in patients with atrial septal defect: acute influence of the balloon occlusion of atrial septal defect
W. Himeno, T. Akagi, M. Iemura, H. Koizumi, H. Muta, M. Ishii, Y. Maeno, T. Matsuishi (Kurume, J)

10:40 **83** Catheter therapy of pulmonary valve atresia with intact ventricular septum in neonates
E. Pesonen, S. Sivasubramonian, E. Rosenthal, S.A. Qureshi (London, UK)

10:50 **84** Percutaneous pulmonary valve replacement in large right ventricular outflow tract: an experimental study
Y. Boudjemline, G. Agnoletti, D. Bonnet, D. Sidi, P. Bonhoeffer (Paris, FR & London, UK)

11:00 **85** Percutaneous pulmonary valve implantation in humans – initial experience
S. Khambadkone, Y. Boudjemline, O. Franklin, G. Derrick, D. Sidi, J. Deanfield, P. Bonhoeffer (Paris, FR & London, UK)

11:10 **86** New percutaneous technology of vascular shunting
N.A. Chigogidze, M.V. Avaliani, V.A. Cherkasov (Moscow, RUS)

11:20 **87** Mitral valve repair in children with rheumatic valve disease – long term results
A. Kalangos, M. Beghetti, E. Jaeggi, I. Oberhaensli, N. Lahlaidi, J.T. Christenson (Geneva, CH)

11:30 **88** Impact of associated cardiac lesions on outcomes of parachute mitral valve in 84 patients
M.V. Schaverien, B.W. McCrindle (Toronto, CA)

11:40 **89** Long-term experience with heart transplantation in children
S. Di Filippo, L. Houyel, J. Petit, F. Sassolas, A. Bozio (Lyon, FR)

11:50 **90** The prevalence and manifestation of post transplantation lymphoproliferative disorder (PTLD) in paediatric heart transplant recipients
H. Abdul-Khaliq, H. Lehmkuhl, B. Schmitt, S. Schubert, S. Kapell, Ch. Knosalla, M. Hummel, M. Dandel, M. Hübler, R. Hentze, B. Stiller, Y. Weng, P.E. Lange, R. Hetzer (Berlin, D)

Thursday, 29 May

SESSION 11: Short Slide Presentations 1
Chairs: *A. Bozio (Lyon, FR) & J. De Giovanni (Birmingham, UK)*

13:15 **91** Changing patterns of infective endocarditis in congenital heart diseases over the past decade
S. Di Filippo, B. Semiond, F. Sassolas, A. Bozio (Lyon, FR)

13:20 **92** Percutaneous pulmonary valve implantation for right ventricular outflow tract lesions after congenital heart surgery
S. Khambadkone, Y. Boudjemline, O. Franklin, G. Derrick, D. Sidi, J. Deanfield, P. Bonhoeffer (London, UK & Paris, FR)

13:25 **93** Enhanced visualisation of the right ventricle by contrast echocardiography in congenital heart disease
A.E. van den Bosch, F.J. Meijboom, J.S. McGhie, J.W. Roos-Hesselink, F.J.T. Cate, J.R.T.C. Roelandt (Rotterdam, NL)

13:30 **94** Left ventricular structure and function in adolescent swimmers
E.S. Horowitz, R. Petkowicz, F. Meyer (Porto Alegre, BR)

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13:35 **95** Value of the novel isovolumetric acceleration index in the evaluation of ventricular systolic function in patients following corrective surgery of TOF
M.Y. Abd EL Rahman, W. Hui, H.A. Khaliq, A. Rentzsch, F. Dsebissowa, P.E. Lange (Berlin, D)

13:40 **96** Outcome of transcatheter closure of muscular ventricular septal defects using the Amplatzer ventricular septal defect occluder
B.D. Thanopoulos, M.L. Rigby (Athens, GR & London, UK)

13:45 **97** Early cardiopulmonary functional improvement following transcatheter atrial septal defect closure
A. Donti, A. Giardini, R. Formigari, M. Bonvicini, G. Bronzetti, D. Prandstraller, F.M. Picchio (Bologna, I)

13:50 **98** Comparison of surgical repair with balloon angioplasty for native coarctation in infants over 3 months of age
R.J. Walhout, J.C. Lekkerkerker, G.H. Oron, P.A. Hutter, G.B.W.E. Bennink, E.J. Meijboom (Utrecht, NL)

13:55 **99** Accelerated transcatheter patch occlusion of large patent ductus arteriosus
E.B. Sideris, B. Macuil, R. Moguil, B. Alekyan (Athens, GR)

14:00 **100** Stent implantation into the arterial duct in lambs
F. Godart, D. Corseaux, S. Jaillard, L. Storme, L. Houyel, B. Jude, C. Rey (Lille, Paris, FR)

14:05 **101** Use of covered Cheatham-Platinum stents in aortic coarctation and recoarctation
G. Brzezinska-Rajszys, S.A. Qureshi, M. Zubrzycka, A. Kosciesza, J. Ksiazyk, W. Kawalec (Warsaw, PL & London, UK)

14:10 **102** Transcatheter treatment of aortic coarctation. Fifteen years experience
I. Spadoni, L. Ait-Ali, S. Giusti, M. Carminati, G. Kraft, S. Redaelli (Massa, I)

14:15 **103** Problems and complications during transcatheter closure of the moderate and large patent ductus arteriosus utilizing Amplatzer duct occluder in 22 patients
M.O. Galal, A. Kouatli, J. Al-Ata, M. Amin, O. Isaaq, A. Hussain (Jeddah, SAU)

14:20 **104** Left-sided atrioventricular valve insufficiency after AVSD correction
A.D.J. Ten Harkel, B.C.C. Heinerman, A.J.J.C. Bogers, A.H. Cromme-Dijkhuis (Rotterdam, NL)

14:25 **105** Pediatric cardiac surgery risk stratification: The Pediatric Cardiac Care Consortium (PCCC) categories reflect mortality and length of stay in a large German unit
D. Boethig, T. Breymann, C. Camphausen, J.-U. Lueth, W.-R. Thies, R. Koerfer (Bad Oeynhausen, D)

14:30 **106** Postoperative course and growth after extracardiac Fontan operation in children under 4 years of age
S. Ovrutskiy, P. Ewert, V. Alexi-Meskishvili, J.-H. Nürnberg, B. Stiller, H. Abdul-Khaliq, R. Hetzer, P.E. Lange (Berlin, D)

14:35 **107** A new clip device for construction of vascular interrupted anastomosis in congenital cardiac surgery
P.A. Berdat, J.-P. Pfammatter, M. Pavlovic, T.P. Carrel (Bern, CH)

14:40 **108** Blood cardioplegia protects myocardial metabolism and function better than crystalloid cardioplegia in pediatric heart surgery
K. Åmark, R. Ekroth, J. Sunnegårdh, H. Berggren (Goteborg, S)

14:45 **109** One stage correction for aortic arch obstruction and ventricular septal defect
I. Daehnert, T. Walther, W. Bellinghausen, H. Kiefer, C. Rotzsch, M. Kostelka (Leipzig, D)

14:50 **110** Long-term mortality and complication rate in children with mechanical prosthesis: a 30 years single center experience
I. Sahnoun, J.B. Thambo, M. Jimenez, R. Girardot, A. Choussat (Pessac, F)

14:55 **111** Transvenous pacemaker implantation for sinus node dysfunction and arrhythmias after the Fontan operation
E. Rosenthal, J. Rogers, D. Elliott, J. Bostock (London, UK)

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FRIDAY, 30 MAY

SESSION 12: Short Slide Presentations 2
Chairs: *J. Sunnegardh (Göteborg, SE) & M. Witsenburg (Rotterdam, NL)*

14:00 **112** Magnetic Resonance Imaging in children with ventricular arrhythmias
A. Turska, A. Kosciesza, K. Bieganowska, J. Rekawek, W. Kawalec, E. Szymaniak, J. Daszkowska, M. Biernatowicz, L. Ziolkowska, J. Ksiazyk, E. Czarnowska (Warsaw, PL)

14:05 **113** Pharmacological treatment of young children with permanent junctional reciprocating tachycardia: follow-up data of tachycardia and cardiac function
M. van Stuijvenberg, G.C.M. Beaufort-Krol, J. Haaksma, M.T.E. Bink-Boelkens (Groningen, NL)

14:10 **114** Tissue factor expression is promoted by thrombin via Rac and the p21-activated kinase PAK in pulmonary artery smooth muscle cells
A. Görlach, T. Djordjevic, R.S. BelAiba, A. Pogrebniak, S. Bonello, O. Herkert, T. Kietzmann, J. Hess (Munich, D)

14:15 **115** Differential proteomic profiling of right ventricle after 3 weeks of RV pressure overload in young rats
M. Dalinghaus, K. Bezstarosti, J.M.J. Lamers, I.M. Lankhuizen, R.G. Schoemaker, W.A. Helbing (Rotterdam, NL)

14:20 **116** N-terminal pro-B-type natriuretic peptide. Normal plasma levels from birth to adolescence. Elevated levels at birth, and in patients with heart disease
A. Nir, B.B. Oz, Z. Perles, R. Brooks, A. Korach, A.J.J.T. Rein (Jerusalem, IL)

14:25 **117** Doppler evaluation of cardiac function in trisomy 21 and normal fetuses prior to 14 weeks of gestation
I.C. Huggon, N. Zosmer, L.D. Allan (London, UK)

14:30 **118** Prenatal closure of the fetal ductus arteriosus – result of thoughtless pain medication?
B. Schiessl, A. Zimmermann, F. Kainer, R. Oberhoffer (Munich, D)

14:35 **119** Ectopia cordis in prenatal life
M.V.L. Machado, A.C. Beduschi, H. Werner, P.R. Marinho, D.P. Lapa, U.G. Lippi (São Paulo, BR)

14:40 **120** Amiodarone: efficacious treatment of refractory fetal tachycardia
J.F. Strasburger, M.M. Michon, M.A. Oudijk, E.J. Meijboom (Utrecht, NL)

14:45 **121** Cardiac disturbances in insulin-dependent diabetes mellitus in child
T. Condurache, A.G. Dimitriu, C. Jitareanu (Iasi, R)

14:50 **122** Prognostic value of balloon occlusion test (BOT) in candidates for various types of cavo-pulmonary anastomosis
R. Bermudez-Canete, J. Kusa, I. Herraiz, J. Bialkowski, M. Szkutnik, M.P. Diaz, F. Villagra, P.A. Sanchez (Madrid, SP & Zabrze, PL)

14:55 **123** Normal values of B type natriuretic peptide in infants, children, and adolescents
A. Koch, H. Singer (Erlangen, D)

15:00 **124** Cardiac involvement and myocardial microcirculation disturbance in children with systemic sclerosis
D. Bonnet, P. Quartier, V. Chassot, C. Bodemer, C. Maunoury, P. Acar, D. Sidi, A.M. Prieur (Paris, F)

15:05 **125** Myocardial performance, baroreceptor reflexes and coronary flows evaluation using the tilt table in preterm and term neonates
A.R. Özyürek, E. Levent, M. Yalaz, Z. Ulger, M. Akisu, N. Kültürsay, A. Parlar (Izmir, TR)

15:10 **126** Conversion from cyclosporine A to tacrolimus after pediatric heart and heart lung transplantation
A.T. Fuchs, U. Roemer, R. Kozlik-Feldmann, H. Netz (Munich, D)

15:15 **127** Double orifice mitral valve (DOMV) – clinical presentation, natural history and outcome in children and adolescence
E. Zalzstein, R. Hamilton, N. Zucker, A. Levitas, G. Gross (Beer Sheva, IL & Toronto, CA)

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15:20 **128** Preoperative immunological and serological differences between children with and without post-surgical capillary leak syndrome
J. Hambsch, D. Lenz, P. Schneider, A. Tarnok (Leipzig, D)

15:25 **129** Slow kinetics of oxygen uptake during exercise in patients with a Fontan-type circulation
L. Mertens, T. Reybrouck, B. Eyskens, D.E. Boshoff, W. Daenen, B. Meyns, M. Gewillig (Leuven, B)

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PROGRAMME AT A GLANCE

	Tuesday 27/5			Wednesday 28/5		Thursday 29/5						Friday 30/5				Saturday 31/5			
				Registration & Exhibition		Registration & Exhibition						Registration & Exhibition				Exhibition			
Room	Board	Press	M	Forum	L	Forum	L	M	N1	Board	Press	Forum	L	M	Press	Forum	L	Board	Room
8:00						BM WG Dysrhythmia	BM WG Imaging	BM WG Fetal	BM WG Intervention	BM WG Basic science	BM WG GUCH								8:00
9:00					Teaching Course	Abstracts Fetal	Abstracts GUCH					Abstracts Intervention	Abstracts Surgery			Abstracts Imaging	Abstracts Interventions		9:00
10:00	AEPC council meeting					Break						Break			Coding committee	Break			10:00
11:00												State of the Art							11:00
12:00					Lunch	NuMED Symposium	Abstracts Arrhythmia	Abstracts Basic science				WG Intervention	WG Dysrhythmia			Abstracts General	Abstracts Interventions		12:00
13:00					Teaching Course	Lunch & poster walk				BM WG Morphology	BM WG Psychosocial	Lunch & AEPC general business meeting (Forum)				Lunch			13:00
14:00						GE Symposium	Short slides	Anatomical presentation				Philips symposium	Short slides	Anatomical presentation				AEPC council meeting	14:00
15:00			National delegates meeting		Break			Break						Break					15:00
16:00				Mannheimer Lecture		State of the Art		Anatomical presentation				Break		Anatomical presentation					16:00
17:00	SAC Meeting	PAC Meeting		Opening Ceremony		Break						WG GUCH	WG Interventional						17:00
18:00				Reception & poster		WG Imaging	WG Morphology												18:00
19:00					Medtronic diner discussiant											Gala Evening at the Dutch Maritime Museum			19:00
20:00						Official AEPC cultural event													20:00
21:00																			21:00
22:00																			22:00
23:00																			23:00

Sessions for conference delegates

Meeting(s) for AEPC council members or AEPC working group members