



6th biennial Meeting of the Association for European Cardiovascular Pathology

Paris, Hôpital Européen Georges Pompidou HEGP
October 9 - 11 2014

PROGRAM

THURSDAY 9th OCTOBER

12:00 **REGISTRATION**

13:00 **OPENING CEREMONY**

Patrick Bruneval (FR) Local organizer, **Allard van der Wal** (NL) President AECVP, **Philippe Ménasché** (FR) President of Medical Committee of Pompidou hospital - Director of the university department of Cardiology, **Xavier Jouven** (FR) PARCC- Paris Centre de recherche Cardiovasculaire- HEGP.

13:30 **SYMPOSIUM I. "OLSEN-GOURLEY SYMPOSIUM" on VIRAL MYOCARDIAL DISEASES**

Chairs: Ulrik Baandrup, Hjorring (DK) & Patrick Gallagher, Bristol (UK)

13:30 **Pathogenesis and molecular biology of viral myocarditis**

Elisa Carturan, Padova (IT)

13:50 **EMB as a diagnostic and research tool**

Ornella Leone, Bologna (IT)

14:10 **Enterovirus-related dilated cardiomyopathy**

Laurent Andreoletti, Reims (FR)

14:30 **Myocarditis as a cause of sudden cardiac death**

Paul Fornes, Reims (FR)

14:50 Discussion

15:00 **KEYNOTE-LECTURE I.**

Epidemiology and prevention of sudden cardiac death in France

Xavier Jouven, Paris (FR)

Introduced by Gaetano Thiene, Padova (IT)

15:45-17:30 **COFFEE BREAK**

and **POSTER SESSION I.** Venue: research building PARCC,

56 rue Leblanc, close to « Entrée Balard »

Chairs: Helen Doran (UK) & Erik Larsson (SW)

1. **Engineering of polymeric vascular grafts: Is cell seeding still needed?**
M. Pontailer, E. Illangakoon, G. Williams, C. Marijon, V. Bellamy, D. Balvay, G. Autret, V. Vanneaux, J. Larghero, V. Planat-Benard, MC. Perier, P. Bruneval, P. Menasché, D. Kalfa
2. **Long term in vivo reactions to PTFE and polyester in the cardiovascular system – prediction of calcifications locally related to septal defect occlusion devices.**
M. Sigler, S. Huell, R. Foth, T. Paul
3. **Histopathological evaluation of explanted valved pulmonary conduits.** M. Sigler, M. Vogt, R. Boekenkamp, J. Hoerer, J. Goebbert, R. Foth, H. Schneide

4. **The appropriate time-frame for use of vascular homograft tissue- an unsolved problem.**
K. Wassilew, J. Schroeter, R. Hetzer
5. **Identification of a microRNA profile related to hypertrophic cardiomyopathy.**
E. Zorio, P. Molina, E. Plana, E. Fernandez, D. Domingo, S. Navarro, MA. Arnau, MC. Salvador, M. Fenollosa, J. Giner, P. Medina
6. **The human cardiac and skeletal muscle proteomes defined by transcriptomics and antibody-based profiling.**
E. Erik Larsson, F. Ponten, C. Bergström, C. Kampf, J. Linne, M. Uhlen, BM. Hallström, L. Fagerberg, CJ. Sundberg, M. Lindholm, L. Våremo, L. Nielsen
7. **Proteomic approach for chemical characterization of cardiac tissue amyloidosis.**
C. Castellani, M. Fedrigo, G. Fregonese, P. Polverino De Laureto, M. Della Barbera, G. Thiene, M. Valente, A. Angelini
8. **Morphological characteristic and genetic analysis of 6 LVNC cases.**
L. Mitrofanova, P. Konovalov, E. Zakliazminskaia, D. Grigorieva, L. Oun
9. **Viral myocarditis: Factors influencing viral genome detection yield on endomyocardial biopsy.**
E. Carturan, C. Basso, S. Rizzo, M. Fedrigo, A. Angelini, G. Thiene
10. **Presence of intraplaque hemorrhage relates to the use of coumarin-type anticoagulants in patients with extensive coronary atherosclerosis.**
X. Li, A. Vink, H. Niessen, O. De Boer, A. Van der wal
11. **The role of IL-17 in the growth of vascular anomalies: Its expression in pyogenic granuloma, infantile hemangioma, venous and arteriovenous malformation and regulation in Vitro.**
S. Sairras, L. Meijer-Jorna, O. De Boer, H. Niessen, A. Van der wal
12. **An exceptional case of dual valvular involvement in granulomatosis with polyangiitis.**
F. Mittler, O. Espitia, L. Droy, S. Pattier, F. Naudin, A. Cavailles, M. Hamidou, P. Bruneval, C. Agard, C. Toquet
13. **Aortic and mitral valve disease in patients treated with the antidiabetic agent benfluorex.**
L. Gibault, V. Thomas De Montpreville, F. Paraf, P. Bruneval
14. **Cause of Aortic Regurgitation in Patients with Takayasu Arteritis, Valve Inflammation or Aortic Root Dilatation?** M. Matsumoto, K. Ohta-Ogo, T. Matsuyama, Y. Ikeda, H. Ishibashi-Ueda
15. **A first characterization of a knock-in mouse model of vascular Ehlers Danlos syndrome.** E. Fontaine, J. Faugeroux, MC. Verpont, J. Hadchouel, P. Bruneval, X. Jeunemaître
16. **A scoring system for surgical specimens of the thoracic aorta helps to classify aneurysms of differing aetiology.**
Y. Banz, A. Spranger, A. Perren, F. Schoenhoff, T. Carrel

17. **Matrix metalloproteinase-9 expression in acute aortic dissection.**
E. Stefanovic, P. Otasevic, P. Milojevic, L. Lausevic-Vuk, Z. Milovanovic, B. Djukanovic
18. **Aortopathy in Marfan syndrome: focus on microscopic and ultrastructural findings.**
A. Orlandi, D. Mazzaglia, F. Romaniello, A. Ferlosio, S. Grego, A. Pellegrino, L. Chiariello
19. **IgG-4 related periaortitis, a mimicker of intramural hematoma by CT scan.**
JA. Collins, S. Kligerman, AP. Burke
20. **Involvement of ADAM10, ADAM17 and Notch4 receptor - Dll4 ligand in Antibody-Mediated Rejection in human cardiac transplants : A morphological approach.**
C. Toquet, A. Pabois, N. Gerard, S. Pattier, C. Labois, B. Charreau
21. **Microvasculopathy evaluated on endomyocardial biopsy compared to coronary flow reserve by Transthoracic doppler echocardiography in heart transplant patients: a clinical-pathological study.**
M. Fedrigo, F. Tona, B. Schiavon, C. Castellani, G. Feltrin, G. Toscano, S. Iliceto, G. Gerosa, G. Thiene, M. Valente, A. Angelini
22. **The effect of mechanical circulatory support systems on vascular changes in cardiac allografts.**
A. Knoblich, E. Potapov, D. Kemper, R. Hetzer, K. Wassilew
23. **Cardiothoracic ratio as a tool for the diagnosis of cardiomegaly in post-mortem computed tomography. An update study.**
M. Jotterand, F. Doenz, S. Grabherr, M. Fawzi, K. Michaud
24. **Chronic antibody-mediated rejection and a second transplant: a case report.**
J. Martin Lopez, I. Kovtun, L. Martín-Fragueiro, E. González-López, K. Guzmán-López, C. Salas
25. **Early screening for antibody-mediated rejection in heart transplant recipients.**
T. Sato, H. Ishibashi-Ueda, M. Yanase, S. Nakajima, H. Sunami, O. Seguchi, K. Ohta-Ogo, T. Matsuyama, Y. Ikeda, T. Nakatani

17:30

ORAL COMMUNICATIONS I.

Chairs: Loukas Kaklamanis (GR) & Esther Zorio (SP)

1. **The CRY UK Sudden Cardiac Death database.**
JL. Robertus, MN. Sheppard
2. **Visualization of myocardial infarction in post-mortem multiphase CT-angiography.**
C. Egger, J. Vanhaebost, K. Michaud, J. Grimm, P. Mangin, S. Grabherr
3. **Postmortem genetic testing of the ryanodine receptor 2 (RYR2) gene in a cohort of sudden unexplained death cases.**
M. Larsen, K. Berge, T. Leren, P. Nissen, J. Hansen, I. Kristensen, J. Banner, H. Jensen
4. **Incremental value of right ventricular endomyocardial biopsy to the phenotyping of phospholamban p.Arg14del mutation cardiomyopathy.**
W.P. Te Rijdt, P.A. Van Der Zwaag, R.A. De Boer, M.P. Van Den Berg, J.P. Van Tintelen, AJH. Suurmeijer
5. **Mitochondrial remodeling and oxidative stress in myocardial hypertrophy and heart failure.**
C. Giordano, M. Orlandi, M. Mancini, M. Pelullo, C. Preziuso, GM. Bates, H. Langping, J. Lucena, P. Lilla Della Monica, C. Nediani, RW. Taylor, G. d'Amati

18:30

BOARD MEETING

09:00 **SYMPOSIUM II. UPDATE IN VASCULAR PATHOLOGY**

Chairs: Augusto Orlandi, Roma (IT), Patrick Bruneval, Paris (FR)

09:00 **New intracoronary procedures, bioresorbable stents**

Antoine Lafont, Paris (FR)

09:20 **Coronary thrombosis: Neutrophilic Extracellular Traps (NET) and thrombus instability**

Onno de Boer, Amsterdam (NL)

09:40 **Classification of atherosclerotic lesions**

Allard van der Wal, Amsterdam (NL)

10:00 **Immunology of atherosclerosis**

Alain Tedgui, Paris (FR)

10:20 **Genetics of the aorta diseases**

Catherine Boileau, Paris (FR)

10:45 - 11:15 **COFFEE BREAK**

11:15 **ORAL COMMUNICATIONS II.**

Chairs: Ivana Kholova (FI) & Jeremias Wohlschaeger (GE)

6. **Adventitia remodeling in cardiac allograft vasculopathy: The forgotten layer.**

C. Castellani, M. Fedrigo, OJ. De Boer, AC. Frigo, X. Li, LB. Meijer-Jorna, F. Tona, G. Feltrin, G. Gerosa, M. Valente, G. Thiene, AC. Van Der Wal, A. Angelini

7. **The Molecular phenotype of antibody-mediated rejection in heart transplants.**

A. Loupy, T. Beuscart, J. Reeves, MC. Bories, C. Toquet, S. Varnous, F. Iserin, R. Guillemain, A. Gay, X. Jouven, P. Bruneval, J. Duong Van Huyen, PF. Halloran

8. **A novel tissue microRNA signature for arrhythmogenic cardiomyopathy.**

E. Zorio, P. Molina, E. Plana, E. Fernandez, D. Domingo, S. Navarro, P. Ferrer, S. Ferrer, J. Sanz, R. Camacho, P. Medina

9. **Increase of ABCG2/BCRP+ side population stem cells in the myocardium after ventricular unloading.**

J. Wohlschlaeger, B. Levkau, J. Stypmann, C. Schmid, H. Milting, KW. Schmid, HA. Baba

10. **The distribution pattern of fibrosis in genetic cardiomyopathy is related to the type of pathogenic mutation.** S. Sepehrkhoy, J. Gho, R.

Van Es, M. Harakalova, N. De Jonge, J. Van Der Smagt, R. Goldschmeding, R. De Weger, F. Asselbergs, A. Vink

12:15 **AECVP Michael Davies Distinguished Achievement Award**
2014 recipient: Prof Alain Carpentier (FR)
AECVP Michael Davies Distinguished Achievement Award lecture:
“Mitral valve is like women”
Alain Carpentier, Paris (FR)
Introduced by Allard van der Wal (NL), AECVP President

13:00-14:00 **LUNCH**

14:00 **SYMPOSIUM III. PATHOLOGY AND FORENSIC AUTOPSY OF
CARDIOVASCULAR DEATH ACROSS EUROPE**

Chairs: Giulia d’Amati, Rome (IT), Rosa de Gouveia (PT)

14:00 **How to dissect and investigate the heart**

Cristina Basso, Padova (IT)

14:20 **Postmortem imaging to identify the cause of death**

Katarzyna Michaud, Lausanne (CH)

14:40 **When and how to study the conduction system**

Gaetano Thiene, Padova (IT)

15:00 **How is the real practice in Europe:**

- 15:00-15:10 Denmark J. Banner, Kobenhavn
- 15:10-15:20 UK M. Sheppard, London
- 15:20-15:30 Spain J. Lucena, Sevilla
- 15:30-15:40 Greece L. Kaklamanis, Athens
- 15:40-15:50 France B. Ludes, Paris
- 15:50-16:00 Germany R. Bohle, Homburg

16:00 Discussion

16:15-17:30 **COFFEE BREAK**

and **POSTER SESSION II**. Venue: research building PARCC,

56 rue Leblanc, close to « Entrée Balard »

Chairs: Kim Suvarna (UK) & Aryan Vink (NL)

26. **MicroRNA expression profile in epicardial fat in sudden cardiac death (SCD) from coronary artery disease (CAD).**

A. Braza, J. Marí, P. Molina, D. Domingo, J. Sancho, Y. Abellán, MA. Arnau, N. Castillo, J. Giner, E. Zorio

27. **The pathological disease spectrum of arrhythmogenic right ventricular cardiomyopathy (ARVC) in sudden cardiac death emphasising biventricular involvement and challenges in diagnosis.**

JL. Robertus, A. Burrell, MN. Sheppard

28. **Clinical spectrum of single-vessel disease as a cause of sudden cardiac death.**

Should we screen for inherited cardiac conditions? P. Molina, D. Domingo, A. Andreu, B. Cardona, M. Bermejo, MA. Arnau, S. Giner, N. Prado, E. Medio, E. Zorio

29. **Plakoglobin: A Diagnostic marker of arrhythmogenic right ventricular cardiomyopathy in forensic pathology?**
J. Munkholm, C. B. Andersen, G. L. Ottesen
30. **Clinical characteristics and circumstances of death in the sudden arrhythmic death syndrome.**
G. Mellor, H. Raju, S. De Noronha, M. Papadakis, S. Sharma, E. Behr, M. Sheppard
31. **Post-mortem cardiac MRI in deceased with a history of mental illness**
C. Jacobsen, N. Vejlstrop, KE. Jensen, C. Thomsen, U. Baandrup, J. Banner
32. **CHLO's cardiovascular museum: A legacy for the future...**
R. Henriques De Gouveia, S. Ramos
33. **Catecholamine-induced acute lung injury followed by myocardial affection: Modulatory role of blood cytokines.**
A. Semerjyan, N. Krasnikov, A. Misakyan, A. Davtyan, A. Mkhitarian, A. Grigoryan
34. **Autopsy findings during preclinical animal studies with the CARMAT total artificial heart.**
C. Latrémouille, A. Capel, G. Belbis, D. Dubeau, O. Gauthier, P. Bruneval, C. Adam, P. Jansen, A. Carpentier
35. **Focal myocarditis can be frequently observed in autopsy of pediatric unexpected and unexplained death cases.**
A. Vos, AC. Van Der Wal, EM. Van Der Putte, AH. Teeuw, PGJ. Nikkels
36. **Unexplained death in psychiatric patients treated with psychoactive drugs – A retrospective study of a medico-legal material with focus on genetic arrhythmia.**
K. Olsen, J. Kanters, P. Hedley, G. Ottesen, K. Linnet, J. Banner, M. Christiansen
37. **Next generation sequencing of a high number of heart genes in sudden unexpected death victims with unspecific heart abnormalities.**
C.L. Hertz, S.L. Christiansen, S.L. Fordyce, R. Frank-Hansen, H. Bundgaard, N. Morling
38. **Sudden cardiac death with emotional stress in young population: the importance of specialist cardiac pathological examination.**
L. Krexj, R. Georgiou, MN. Sheppard
39. **Autonomic innervation of pulmonary veins: morphological substrate of atrial fibrillation.**
I. Kholova, R. Leinonen, A. Mäkinen, O. Jääskeläinen, T. Paavonen
40. **Diffusion tensor magnetic resonance imaging and augmented reality: new perspectives in postmortem study of sudden cardiac death.**
B. Igual, R. Sanchez, P. Molina Aguilar, D. Domingo, J. Giner, MA. Arnau, P. Hevia, A. Monzó, JM. Ortiz, E. Zorio
41. **Myocarditis presenting as sudden cardiac death in the young.**
J. Lucena, A. Fernández-Rodríguez, M. Paya, R. Abad, R. Gonzalez-Campora

42. **Specialized conduction cells in human interatrial septum: histological, immunohistochemical and ultrastructural investigation**
L. Mitrofanova, A. Gorshkov, E. Mikhaylov, D. Lebedev
43. **Next generation sequencing applied to cardiac channelopathies in a cohort of autopsy-negative sudden unexplained death.**
A. Farrugia, C. Keyser, J. Muller, C. Hollard, JS. Raul, B. Ludes
44. **Hibernating myocardium - Morphological structure correlates of contractile reserve.**
E. Stefanovic, P. Otasevic, N. Tasic, L. Lausevic-Vuk, M. Jovic
45. **Is there a common mechanism for right ventricular pathology in pulmonary thromboembolism, endurance athletes and arrhythmogenic right ventricular cardiomyopathy?**
J. Duflou
46. **Interstitial pneumonia linked to sudden cardiac death - unexpected in/out-of-hospital death - molecular and cell basis.**
J. Ananiev, E. Buchvarov, V. Velez, H. Abrashev, G. Tchernev, M. Gulubova
47. **Do you want a cause of death or the cause of death? The coroner and genetic testing for SADS.** C. Goldsworthy
48. **The cardiac pathology of non-natural (forensic) deaths.**
K. Lloyd, S. Suvarna
49. **Is short stature a risk factor for coronary atherosclerotic disease? Case-control study on a series of forensic autopsies in a mediterranean area.**
C. Lucena-Porcel, P.J. Macaluso, A. Fernandez-Palacin, R. Vazquez, J. Lucena
50. **MacCallum's triangle, Is it rheumatic? Is it traumatic? Or is it both?**
S. Siew

17:30

WHAT IS IT SESSION?

Chair: Patrick Gallagher (UK)

1. **Pericardial effusion with eosinophilia**
Grundy, London (UK)
2. **Similar pathology in heart and skeletal muscle**
K. Hayashi, Tokyo (JP)
3. **Sudden death in a 21 yr old female**
W. Van den Bogaert, Leuven (BL)
4. **A pain in the shoulder**
H. Lowes, Gloucester (UK)
5. **Two cardiac pathologies, neither diagnosed before transplantation!**
S. Nicholson, Manchester (UK)
6. **Sudden death after drinking Red Bull**
F. Paraf, Limoges (FR)

18:30-19:00 **BUSINESS MEETING**

20:30 **CONGRESS DINNER (*upon registration*)**

SATURDAY 11th OCTOBER

09:00-10:30 **SYMPOSIUM IV. INSIGHTS INTO ANTIBODY-MEDIATED REJECTION IN THORACIC ALLOGRAFTS**

Chairs: Annalisa Angelini, Padova (IT), Claire Toquet, Nantes (FR)

09:00 **Introduction to the 2013 ISHLT Working Formulation and the AECVP Transplant Network**

Margaret Burke, London (UK)

09:20 **The clinician's approach to diagnosis and management of cardiac AMR: bridging the gap between bench and bedside**

Luciano Potena, Bologna (IT)

09:40 **Molecular pathology and inflammatory burden in cardiac allograft biopsies**

Jean-Paul Duong Van Huyen, Paris (FR)

10:00 **Endothelial activation by antibodies**

Béatrice Charreau, Nantes (FR)

10:20 Discussion

10:30-11:00 **COFFEE BREAK**

11:00-11:45 **KEYNOTE-LECTURE III**

Thoracic antibody-mediated rejection: controversies and challenges

Gerald Berry, Stanford (CA, USA)

Introduced by Patrick Bruneval, Paris (FR)

11:45-12:15 **PRIZE AWARDS and CLOSING CEREMONY**

Annalisa Angelini (AECVP president), **Cristina Basso** (Education committee chair), **Patrick Bruneval** (Local organizer)

- Free Communications
- Posters
- What is it? Session

ORGANISATION

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