

## **POULEUR Anne-Catherine, MD, PhD**

Citizenship: Belgian

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Date of birth: May 6, 1975

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### **Education**

- 1987-1993: Collège Cardinal Mercier, Braine-l'Alleud, Belgium - Summa Cum Laude
- 1993-1996: Bachelor in Medicine, Medical School, University of Louvain, Belgium - Summa Cum Laude
- 1996-2000: Doctorate in Medicine, Medical School, University of Louvain, Belgium - Summa Cum Laude with Congratulations of the Jury; MD Degree
- 2000-2008: Cardiologist Degree and PhD in Medical Sciences, thesis: "Comprehensive Assessment of Patients with Aortic Valve Disease by Non-Invasive Cardiac Imaging", University of Louvain, Belgium
- 2014-2015: Postgraduate Course in Heart Failure (PCHF) – ESC, HFA, Zurich Heart House at Zurich University: certificate of Advanced Studies UZH in Heart Failure

### **Training – Working Experience**

- Summer 1995: Summer Intern, Pfizer Discovery, Groton, CT, USA
- 1996-1997: Research program in Internal Medicine (UCL)
- March-April 1999: Internship in Cardiology (Dep. of Prof. W. Grossman), University of California, San Francisco
- 2000-2001: First year of Internship, St-Joseph Hospital – Gilly, Belgium (Cardiology, Pneumology and Internal Medicine)
- 2001-2002: Second year of Internship, St-Pierre Hospital – Ottignies, Belgium (Cardiology, Oncology and Geriatrics)
- 2002-2003: Third year of Internship, St-Pierre Hospital – Ottignies, Belgium (Intensive Care)
- 2003-2006: Research Fellowship in Cardiology, Cliniques Universitaires St Luc, Brussels, Belgium
- 2006- 2007: Fellowship in Cardiology (non invasive cardiac imaging, echocardiography and cMR, stress test lab, outpatient clinic), Cliniques Universitaires St Luc, Brussels, Belgium
- 2007-2008: Fellowship in Cardiology, heart failure clinic and intensive care unit, Cliniques Universitaires St Luc, Brussels, Belgium
- 2008-2010: Research Fellowship at Brigham and Women's Hospital under supervision of Scott Solomon and Marc Pfeffer, Cardiovascular Division, Harvard Medical School, Boston, USA
- October 2010: Nomination Chef de Clinique Adjoint, Cardiovascular Department, Cliniques Universitaires St Luc
- October 2012: Nomination Académique au titre de Chargée de Cours Clinique (Assistant Professor in Medicine)
- October 2015: Nomination Chef de Clinique Associé, Cardiovascular Department, Cliniques Universitaires St Luc

- 2010-Present: **Heart failure and heart transplantation specialist.** Outpatient clinic and hospitalization ward. Performing routinely echocardiography, cardiac MRI and right heart catheterization.
- 2010- Present: **Head of the pulmonary hypertension clinic.** Weekly work-up for pulmonary hypertension. Regular follow-up of +/- 35 adult patients with group 1 PAH and oral specific treatments.
- Multidisciplinary program for Heart Failure and PAH with cardiologist, intensive care specialist, pediatrician, radiologist, 5 clinical nurses specialist (4 for HF/heart transplantation/LVAD, 1 for PAH), social workers, psychological support, rehabilitation program.

## Grants/Award

- 2003-2007 : Grant from Fonds National de la Recherche Scientifique (FNRS), Belgium
- 2005: Finalist of the Young Investigator Award of the Belgian Working Group of Non Invasive Cardiac Imaging
- 2006 : Finalist of the Melvin Judkins Award, Council on Cardiovascular Radiology and Intervention of the American Heart Association
- 2008-2010: Grant from Fondation St Luc, Belgium
- 2012-2018: Mandat Spécialiste Post-Doctorant FNRS
- 2013: prix Léopold et Marthe Delsaux-Champy.
- 2014 : prix de la Fondation Bekales
- 2016 : prix de la Fondation ASTRA-ZENECA

## Clinical Trials

**GCP training:** 18/11/2011, 3/12/2013, 17/3/2016

**2008-2010: Endpoints adjudication** with CEC, Brigham and Women's hospital (Prof Marc Pfeffer and Scott Solomon): TOPCAT, RED-HF, ATMOSPHERE

**2008-2010: Echocardiographic sub-analysis** for MADIT-CRT trial

### Active participation in clinical trials since 2010:

#### National coordinator

- ELIXA-phase III: 10 patients included (ACS and diabetes)
- SOCRATES-preserved and SOCRATES-reduced-phase II: 9 patients (CHF)
- TRANSITION: starting in June 2016, 2 patients included
- VICTORIA: starting in December 2016, 1 patient included

#### Principal Investigator

- ARTS-phase II: 5 patients included (CHF)
- PARAGON: 3 patients included (HFpEF)

#### Co-Investigator

- ATMOSPHERE-phase 3: 10 patients included (CHF)
- NECTAR-HF: 3 patients included (CHF)
- RELAX-HF: 3 patients included (AHF)
- VANGUARD-phase II: 5 patients included (CHF)

- ODYSSEY-phase III: 12 patients screened, 6 patients included

## TEACHING

- Teaching to cardiologist in training (third cycle) 10-15 hours/year
- Heart failure clinics
- Supervision of fellows, residents, and interns in Internal Medicine/Cardiology
- Supervision of a thesis on Heart Failure with Preserved Ejection Fraction (Dr Clotilde Roy)

## PUBLICATIONS

### Articles

1. Myocardial Delivery of Colloid Nanoparticles using Ultrasound-Targeted Microbubble Destruction. Vancraeynest D, Havaux X, **Pouleur AC**, Pasquet A, Gerber A, Beauloye C, Rafter P, Bertrand L, Vanoverschelde JL. Eur Heart J 2006; 27 (2): 237-45.
2. Deficiency of LKB1 in Heart Prevents Ischemia-Mediated Activation of AMPK Alpha 2 but not AMPK Alpha 1. Sakamoto K, Zarrinpashneh E, Budas G, **Pouleur AC**, Dutta A, Prescott AR, Vanoverschelde JL, Ashworth A, Jovanovic A, Alessi DR, Bertrand L. Am J Physiol Endocrinol Metab 2006, 290 (5): E780-788.
3. Role of the Alpha2-Isoform of AMP-Activated Protein Kinase in the Metabolic Response of the Heart to No-Flow Ischemia. Zarrinpashneh E, Carjaval K, Beauloye C, Ginion A, Mateo P, **Pouleur AC**, Horman S, Vaulont S, Hoerter J, Viollet B, Hue L, Vanoverschelde JL, Bertrand L. Am J Physiol Heart Circ Physiol. 2006; 291 (6): H2875-83.
4. Successful repair of a quadricuspid aortic valve illustrated by transoesophageal echocardiography, 64-slice multidetector computed tomography, and cardiac magnetic resonance. **Pouleur AC**, le Polain de Waroux JB, Pasquet A, Watremez C, Vanoverschelde JL, El Khoury G, Gerber BL. Eur Heart J. 2007; 28 (22): 2769.
5. Usefulness of 40-Slice MDCT to Detect Coronary Disease in Patients Prior to Cardiac Valve Surgery. **Pouleur AC** le Polain de Waroux JB, Kefer J, Pasquet A, Coche E, Vanoverschelde JL, Gerber B. Eur Radiol. 2007; 17(12): 3199-207.
6. Aortic Valve Area Assessment: Multidetector CT Compared with Cine MR Imaging and Transthoracic and Transesophageal Echocardiography. **Pouleur AC**, le Polain JB, Pasquet A, Vanoverschelde J-L, Gerber B. Radiology 2007; 244 (3): 745-54.
7. Planimetric and Continuity Equation Assessment of Aortic Valve Area. Head to Head Comparison between Cardiac Magnetic Resonance and Echocardiography. **Pouleur AC**, le Polain JB, Pasquet A, Vancraeynest D, Vanoverschelde J-L, Gerber B. Journal of Magnetic Resonance Imaging 2007; 26 (6): 1436-43.
8. Functional Assessment of the Mechanisms of Aortic Regurgitation by Transesophageal Echocardiography: Diagnostic Accuracy and Prediction of Surgical Repairability. Le Polain de Waroux JB; **Pouleur AC**; Goffinet C; Vancraeynest D; Van Dyck M; Gerber, BL; Pasquet A; El Khoury G; Vanoverschelde, JL. Circulation 2007; 116 (Suppl): I264-9.
9. Chiappini B, **Pouleur AC**, Noirhomme P, Funken JC, Astarci P, Verhelst R, Poncelet A, Elkhoury G. Repair of trileaflet aortic valve prolapse: mid-term outcome in patients with normal aortic root morphology. Interact Cardiovasc Thorac Surg. 2007 Feb;6(1):56-9
10. Assessment of Left Ventricular Mass and Volumes by Three-Dimensional Echocardiography in Patients with or without Wall Motion Abnormalities: Comparison against Cine Magnetic Resonance Imaging. **Pouleur AC**, le Polain de Waroux JB, Pasquet A, Gerber BL, Gerard O, Allain P, Vanoverschelde JL. Heart; 94 (8) :1050-7.

11. Accuracy of the flow convergence method for quantification of aortic regurgitation in patients with central versus eccentric jets. **Pouleur AC**, de Waroux JB, Goffinet C, Vancraeynest D, Pasquet A, Gerber BL, Vanoverschelde JL. *Am J Cardiol*. 2008; 102 (4): 475-80.
12. Combined coronary and late-enhanced multidetector-computed tomography for delineation of the etiology of left ventricular dysfunction: comparison with coronary angiography and contrast-enhanced cardiac magnetic resonance imaging. le Polain de Waroux JB, **Pouleur AC**, Goffinet C, Pasquet A, Vanoverschelde JL, Gerber BL. *Eur Heart J*. 2008; 29(20):2544-51.
13. AMPK $\alpha$ 2 counteracts the development of cardiac hypertrophy induced by isoproterenol. Zarrinpashneh E, Beauloye C, Ginion A, **Pouleur AC**, Havaux X, Hue L, Viollet B, Vanoverschelde JL, Bertrand L. *Biochem Biophys Res Commun*. 2008 Sep 21.
14. Direct comparison of whole-heart navigator-gated magnetic resonance coronary angiography and 40- and 64-slice multidetector row computed tomography to detect the coronary artery stenosis in patients scheduled for conventional coronary angiography. **Pouleur AC**, le Polain JB, Kefer J, Pasquet A, Vanoverschelde JL, Gerber BL. *Circ Cardiovasc Imaging* 2008; 1(2):114-2.
15. Early hazards of mitral ring annuloplasty in patients with moderate to severe ischemic mitral regurgitation undergoing coronary revascularization: the importance of preoperative myocardial viability. de Waroux JB, **Pouleur AC**, Vancraeynest D, Pasquet A, Gerber BL, El Khoury G, Noirhomme P, Robert A, Vanoverschelde JL. *J Heart Valve Dis*. 2009; 18(1):35-43.
16. Assessment of subendocardial vs. subepicardial left ventricular rotation and twist using two-dimensional speckle tracking echocardiography: comparison with tagged cardiac magnetic resonance. Goffinet C, Chenot F, Robert A, **Pouleur AC**, le Polain de Waroux JB, Vancraeynest D, Gerard O, Pasquet A, Gerber BL, Vanoverschelde JL. *Eur Heart J*. 2009; 30(5):608-17.
17. Mechanisms of recurrent aortic regurgitation after aortic valve repair: predictive value of intraoperative transesophageal echocardiography. de Waroux JB, **Pouleur AC**, Robert A, Pasquet A, Gerber BL, Noirhomme P, El Khoury G, Vanoverschelde JL. *JACC Cardiovasc Imaging*. 2009; 2(8):931-9.
18. Comprehensive assessment of the severity and mechanism of aortic regurgitation using multidetector CT and MR. Goffinet C, Kersten V, **Pouleur AC**, le Polain de Waroux JB, Vancraeynest D, Pasquet A, Vanoverschelde JL, Gerber BL. *Eur Radiol*. 2010;20(2):326-36.
19. Relationship between transmural extent of necrosis and quantitative recovery of regional strains after revascularization. Gerber BL, Darchis J, le Polain de Waroux JB, Legros G, Pouleur AC, Vancraeynest D, Pasquet A, Vanoverschelde JL. *JACC Cardiovasc Imaging*. 2010; 3(7):720-30.
20. Pathogenesis of sudden unexpected death in a clinical trial of patients with myocardial infarction and left ventricular dysfunction, heart failure, or both. **Pouleur AC**, Barkoudah E, Uno H, Skali H, Finn PV, Zelenkofske SL, Belenkov YN, Mareev V, Velazquez EJ, Rouleau JL, Maggioni AP, Køber L, Califf RM, McMurray JJ, Pfeffer MA, Solomon SD; VALIANT Investigators. *Circulation*. 2010;122(6):597-602
21. Dyssynchrony, Contractile Function, and Response to Cardiac Resynchronization Therapy. Knappe D\*, **Pouleur AC\***, Shah AM, Cheng S, Uno H, Hall WJ, Bourgoun M, Foster E, Zareba W, Goldenberg I, McNitt S, Pfeffer MA, Moss AJ, Solomon SD. *Circ Heart Fail*. 2011; 4:433-40. (\*equal contribution)
22. Relationship between improvement in left ventricular dyssynchrony and contractile function and clinical outcome with cardiac resynchronization therapy: the MADIT-CRT trial. **Pouleur AC\***, Knappe D\*, Shah AM, Uno H, Bourgoun M, Foster E, McNitt S, Hall WJ, Zareba W, Goldenberg I, Moss AJ, Pfeffer MA, Solomon SD; for the MADIT-CRT Investigators. *Eur Heart J*. 2011; 32: 1720-9. (\*equal contribution)
23. Suppression of aldosterone mediates regression of left ventricular hypertrophy in patients with hypertension. **Pouleur AC**, Uno H, Prescott MF, Desai A, Appelbaum E, Lukashevich V, Smith BA, Dahlöf B, Solomon SD (the ALLAY Investigators). *J Renin Angiotensin Aldosterone Syst*. 2011; 12: 483-90.
24. Dyspnea, breathlessness: And if it was pulmonary arterial hypertension? **Pouleur AC**, Pasquet, A. *Louvain Medical* 2011, 130 (9), 327-331

25. Vardeny O, **Pouleur AC**, Takeuchi M, Appelbaum E, Verma A, Prescott M, Smith B, Dahlof B, Solomon SD the ALLAY Investigators). Influence of diabetes on efficacy of aliskiren, losartan or both on left ventricular mass regression. *J Renin Angiotensin Aldosterone Syst.* 2012; 13: 265-72.
26. Gerber BL, Rousseau MF, Ahn SA, le Polain de Waroux JB, **Pouleur AC**, Philips T, Vancraeynest D, Pasquet A, Vanoverschelde JL. Prognostic value of myocardial viability by delayed-enhanced magnetic resonance in patients with coronary artery disease and low ejection fraction: impact of revascularization therapy. *J Am Coll Cardiol.* 2012; 59 (9):825-35
27. Gurné O, Conraads V, Missault L, Mullens W, Vachierys JL, Van Mieghem W, Droogne W, **Pouleur AC**, Troisfontaine P, Huez S, Nellessens E, Peperstraete B, Blouardo P, Vanhaecke J, Raes D; Belgian Working Group on Heart Failure. A critical review on telemonitoring in heart failure. *Acta Cardiol.* 2012 Aug;67(4):439-44
28. Kutiyafa V, Solomon SD, Bourgoun M, Shah AM, **Pouleur AC**, Knappe D, McNitt S, Wang PJ, Merkely B, Pfeffer M, Moss AJ, Zareba W. Effects of cardiac resynchronization therapy on left ventricular mass and wall thickness in mild heart failure patients in MADIT-CRT. *Heart Rhythm.* 2013 Mar; 10(3): 354-60
29. Knappe D\*, **Pouleur AC\***, Shah AM, Bourgoun M, Brown MW, Foster E, Pfeffer MA, Moss AJ, Solomon SD; MADIT-CRT Investigators. Acute Effects of Withdrawal of Cardiac Resynchronization Therapy on Left and Right Ventricular Function, Dyssynchrony, and Contractile Function in Patients With New York Heart Association Functional Class I/II Heart Failure: MADIT-CRT. *J Card Fail.* 2013 Mar; 19(3): 149-55. (\*equal contribution)
30. Brenyo A, Kutiyafa V, Moss AJ, Mathias A, Barsheshet A, **Pouleur AC**, Knappe D, McNitt S, Polonsky B, Huang DT, Solomon SD, Zareba W, Goldenberg I. Atrioventricular delay programming and the benefit of cardiac resynchronization therapy in MADIT-CRT. *Heart Rhythm.* 2013, 10 (8), 1136-43
31. Kutiyafa V, **Pouleur AC**, Knappe D, Al-Ahmad A, Gibinski M, Wang PJ, McNitt S, Merkely B, Goldenberg I, Solomon SD, Moss AJ, Zareba W. Dyssynchrony and the risk of ventricular arrhythmias. *JACC Cardiovasc Imaging.* 2013 Apr; 6(4):432-44.
32. Barone-Rochette G, Piérard S, Seldrum S, de Meester de Ravenstein C, Melchior J, Maes F, **Pouleur AC**, Vancraeynest D, Pasquet A, Vanoverschelde JL, Gerber BL. Aortic Valve Area, Stroke Volume, Left Ventricular Hypertrophy, Remodeling and Fibrosis in Aortic Stenosis Assessed by Cardiac MRI: Comparison Between High and Low Gradient, and Normal and Low Flow Aortic Stenosis. *Circ Cardiovasc Imaging.* 2013, Nov;6(6):1009-17
33. Belge C, Hammond J, Dubois-Deruy E, Manoury B, Hamelet J, Beauloye C, Markl A, **Pouleur AC**, Bertrand L, Esfahani H, Jnaoui K, Götz KR, Nikolaev VO, Vanderper A, Herijgers P, Lobysheva I, Iaccarino G, Hilfiker-Kleiner D, Tavernier G, Langin D, Dessy C, Balligand JL Enhanced Expression of ss3-Adrenoceptors in Cardiac Myocytes Attenuates Neurohormone- Induced Hypertrophic Remodeling through Nitric Oxide Synthase. *Circulation.* 2014; 129 (4): 451-62
34. Barone-Rochette G, Piérard S, De Meester de Ravenstein C, Seldrum S, Melchior J, Maes F, **Pouleur AC**, Vancraeynest D, Pasquet A, Vanoverschelde JL, Gerber BL. Prognostic significance of LGE by CMR in aortic stenosis patients undergoing valve replacement. *J Am Coll Cardiol.* 2014 Jul 15;64(2):144-54
35. Brenyo A, Barsheshet A, Kutiyafa V, Ruwald AC, Rao M, Zareba W, **Pouleur AC**, Knappe D, Solomon SD, McNitt S, Huang DT, Moss AJ, Goldenberg I. Predictors of spontaneous reverse remodeling in mild heart failure patients with left ventricular dysfunction. *Circ Heart Fail.* 2014 Jul;7(4):565-72
36. Maes F, Boulif J, Piérard S, de Meester C, Melchior J, Gerber B, Vancraeynest D, **Pouleur AC**, Lazam S, Pasquet A, Vanoverschelde JL. Natural history of paradoxical low-gradient severe aortic stenosis. *Circ Cardiovasc Imaging.* 2014 Jul;7(4):714-22
37. Demeure F, Hanin FX, Bol A, Vincent MF, **Pouleur AC**, Gerber B, Pasquet A, Jamar F, Vanoverschelde JL, Vancraeynest D. A randomized trial on the optimization of 18F-FDG myocardial uptake suppression: implications for vulnerable coronary plaque imaging. *J Nucl Med.* 2014 Oct;55(10):1629-35
38. Colin GC, **Pouleur AC**, Lefebvre C, Ghaye B. Unexpected 'pulmonary hypertension' in a patient with granulomatosis with polyangiitis. *Eur Heart J.* 2014 Nov 21;35(44):3141

39. Pulmonary arterial hypertension: Guidelines and management at the Saint-Luc University Hospital. Tassart G, **Pouleur AC**, Severino F., Sluysmans T., Pasquet A. *Louvain Medical* 2014, 133 (2), 66-76
40. **Pouleur AC**. Which biomarkers do clinicians need for diagnosis and management of heart failure with reduced ejection fraction? *Clin Chim Acta*. 2015, 443:9-16
41. de Meester de Ravenstein C, Bouzin C, Lazam S, Boulif J, Amzulescu M, Melchior J, Pasquet A, Vancraeynest D, **Pouleur AC**, Vanoverschelde JL, Gerber BL. Histological Validation of measurement of diffuse interstitial myocardial fibrosis by myocardial extravascular volume fraction from Modified Look-Locker imaging (MOLLI) T1 mapping at 3 T. *J Cardiovasc Magn Reson*. 2015 Jun 11; 17:48
42. Amzulescu MS, Rousseau MF, Ahn SA, Boileau L, de Meester de Ravenstein C, Vancraeynest D, Pasquet A, Vanoverschelde JL, **Pouleur AC**, Gerber BL. Prognostic Impact of Hypertrabeculation and Noncompaction Phenotype in Dilated Cardiomyopathy: A CMR Study. *JACC Cardiovasc Imaging*. 2015 Aug; 8(8): 934-46
43. de Meester C, Gerber BL, Vancraeynest D, **Pouleur AC**, Noirhomme P, Pasquet A, El Khoury G, Vanoverschelde JL. Early surgical intervention versus watchful waiting and outcomes for asymptomatic severe aortic regurgitation. *J Thorac Cardiovasc Surg*. 2015 Nov;150(5):1100-8
44. **Pouleur AC**, Rousseau MF, Ahn SA, Amzulescu M, Demeure F, de Meester C, Vancraeynest D, Pasquet A, Vanoverschelde JL, Gerber BL. Right Ventricular Systolic Dysfunction Assessed by Cardiac Magnetic Resonance Is a Strong Predictor of Cardiovascular Death After Coronary Bypass Grafting. *Ann Thorac Surg* 2016 Jun;101(6):2176-84
45. Vancraeynest D, Roelants V, Bouzin C, Hanin FX, Walrand S, Bol V, Bol A, **Pouleur AC**, Pasquet A, Gerber B, Lesnik P, Huby T, Jamar F, Vanoverschelde JL.  $\alpha V\beta 3$  integrin-targeted microSPECT/CT imaging of inflamed atherosclerotic plaques in mice. *EJNMMI Res*. 2016 Dec; 6(1): 29.
46. Berra E, Gonzalez MC, Scavée C, Vroonen L, Bersali A, **Pouleur AC**, Persu A. High prevalence of cardiac electric abnormalities in patients with pheochromocytomas. *J Hypertens*. 2017 Apr; 35(4):899-901.
47. Gruson D, **Pouleur AC**, Makris K, Chrysohoou C. Systematic vitamin D supplementation and monitoring: improving outcomes in heart failure? *Eur J Heart Fail*. 2017 Jan 24
48. Colin GC, **Pouleur AC**, Belkhir L, Baldin P, Gerber B. Diffuse pseudo-tumoral pericardial tuberculosis. *Eur Heart J Cardiovasc Imaging*. 2017 Jan 8.
49. Biering-Sørensen T, Knappe D, **Pouleur AC**, Claggett B, Wang PJ, Moss AJ, Solomon SD, Kutlyifa . Regional Longitudinal Deformation Improves Prediction of Ventricular Tachyarrhythmias in Patients With Heart Failure With Reduced Ejection Fraction: A MADIT-CRT Substudy (Multicenter Automatic Defibrillator Implantation Trial-Cardiac Resynchronization Therapy). *Circ Cardiovasc Imaging*. 2017 Jan;10(1).

#### Abstracts at International Meetings.

1. Impact of Microbubble Shell and Mode of Contrast Administration on Microvascular Integrity and Myocardial Function during Contrast Echocardiography. **AC Pouleur**, L Bertrand, D Vancraeynest, X Havaux, A Pasquet, JL Vanoverschelde. *Circulation* 2004 Oct; 110 (17): II-748.
2. In Vitro Delivery of Plasmid DNA Using Ultrasound-Targeted Microbubble Destruction. Comparison with Standard Lipofection. **AC Pouleur**, L Bertrand, D Vancraeynest, X Havaux, A Pasquet, JL Vanoverschelde. *Circulation* 2005 Oct; 112: II-633.
3. Multidetector Row Computed Tomography Accurately Estimates Aortic Valve Area as Compared to Transthoracic and Transesophageal Echocardiography. **AC Pouleur**, JB le Polain de Waroux, A Pasquet, JL Vanoverschelde, B. Gerber. *Circulation* 2005 Oct; 112 (17): II-466.
4. Assessment of the Severity and Mechanism of Mitral Regurgitation by Magnetic Resonance Imaging. **AC Pouleur**, JB le Polain de Waroux, B Belge, A Pasquet, JL Vanoverschelde, B Gerber. *European Journal of Echocardiography*, 2005 Dec; 6: I-S69.

5. Reproducibility and Accuracy of Left ventricular Mass Measurements with Real-Time Three-Dimensional Echocardiography: Comparison with Magnetic Resonance Imaging. **AC Pouleur**; Waroux, JB; Pasquet A; Gerber B; Vancraeynest D; Allain P; Gerard O; Vanoverschelde JL. *Circulation* 2006 Oct; 114: II 364. *European Heart Journal* 2006 Aug: suppl 977.
6. Equal Accuracy of Semi-Automated 3D-Echocardiography Estimates of Left Ventricular Mass in Patients with and without Wall Motion Abnormalities: Comparison with Cardiac Magnetic Resonance. De Waroux JB; **AC Pouleur**; Vancraeynest D; Pasquet A; Gerber B; Gerard O; Alain P; Vanoverschelde, JL. *European Heart Journal* 2006 Aug, 27: suppl 859.
7. Survival after Coronary Revascularization, with and without Mitral Valve Repair, in Patients with Ischemic Mitral Regurgitation. Importance of Pre-operative Myocardial Viability. JB Le Polain De Waroux, **AC Pouleur**, B Belge, A Pasquet, B Gerber, Ph Noirhomme , G El Khoury, JL Vanoverschelde. *JACC* 2006, 47 (4): suppl 278A. *European Heart Journal* 2006, 27: 896.
8. Multidetector Row Computed Tomography and Magnetic Resonance Imaging Can Accurately Estimate Aortic Valve Area as Compared to Transthoracic and Transesophageal Echocardiography. **AC Pouleur**, JB le Polain de Waroux, A Pasquet, BL Gerber, JL Vanoverschelde. *JACC* 2006 Feb; vol 47, suppl I.
9. Head-to-Head Comparison of Planimetric and Continuity Equation Assessment of Aortic Valve Area by Cardiac Magnetic Resonance and Echocardiography. **AC Pouleur**; de Waroux JB; Pasquet A; Vancraeynest D; Vanoverschelde, JL; Gerber B. *Circulation* 2006 Oct, 114: II 408. MELVIN JUDKINS YOUNG CLINICAL INVESTIGATOR AWARD.
10. Usefulness of the Proximal Isovelocity Surface Area Method for Quantification of the Severity of Aortic Regurgitation in Patients with Eccentric Jets: Comparison with Cardiac Magnetic Resonance. **AC Pouleur**, JB le Polain de Waroux, A. Pasquet, B. Gerber, JL Vanoverschelde. *Circulation* 2006 Oct, 114 II 759.
11. Can Multidetector Computed Tomography Replace Coronary Angiography in the Preoperative Evaluation of Patients Undergoing Valve Surgery? **AC Pouleur**; de Waroux JB; Goffinet C, Pasquet A; Vanoverschelde, JL; Gerber B. *Circulation* 2006 Oct, 114: II 793-794.
12. Functional Assessment of the Mechanisms of Aortic Regurgitation by Transesophageal Echocardiography: Diagnostic Accuracy and Prediction of Surgical Repairability. JB le Polain de Waroux, **AC Pouleur**, C Goffinet, D Vancraeynest, M Van Dyck, B Gerber, A Pasquet, G El Khoury, and JL Vanoverschelde. *Circulation*, Oct 2006; 114: II 712.
13. Transesophageal Echocardiographic Characterization of Aortic Valve Morphology in Patients with Eccentric Aortic Regurgitation Jets: Comparison with Direct Surgical Inspection. **AC Pouleur**, JB. le Polain de Waroux, A. Pasquet, B. Gerber, D. Vancraeynest, M. Van Dyck, G. El Khoury, JL. Vanoverschelde. *European Journal of Echocardiography* 2006, suppl.
14. Deletion of AMPK-Alpha2 intensifies the insulin-induced p70S6K activation in normoxic heart and the isoproterenol-induced ventricular hypertrophy. Zarrinpashneh E; Beauloye C; Ginion A; **AC Pouleur**; Horman, S; Hue L; Viollet B; Vanoverschelde JL; Bertrand L. *Circulation* 2006 Oct, 114 (18): II 6.
15. Multidetector Computed Tomography allows accurate non-invasive Diagnosis of Etiology of Heart failure as compared with Coronary Angiography and contrast-enhanced MRI. JB le Polain de Waroux, **AC Pouleur**, Céline Goffinet, A Pasquet, JL Vanoverschelde, and B Gerber. *Circulation*, Oct 2007; 116: II 374.
16. Should Asymptomatic Patients with Severe Uncomplicated Mitral Regurgitation Be Operated on preventively or Followed-up conservatively? P Montant, F Chenot, B Nkodia, C Goffinet, JB le Polain de Waroux, **AC Pouleur**, D Vancraeynest, A Pasquet, B Gerber, and JL Vanoverschelde. *Circulation*, Oct 2007; 116: II 492.
17. Asymptomatic Patients with Severe Mitral Regurgitation and either Atrial Fibrillation or Pulmonary Hypertension Benefit from an Early Surgical Strategy. F Chenot, P Montant, B Nkodia, C Goffinet, **AC Pouleur**, JB Le Polain De Waroux, D Vancraeynest, A Pasquet, B Gerber, and JL Vanoverschelde. *Circulation*, Oct 2007; 116: II 493.

18. Cardiomyocyte-specific Overexpression Of Beta3-adrenoceptors Attenuates The Hypertrophic Response To Catecholamines In Vivo. C Belge, B Sekkali, G Tavernier, **AC Pouleur**, L Bertrand, JL Vanoverschelde, D Hilfiker-Kleiner, D Langin, and JL Balligand. *Circulation*, Oct 2007; 116: II 148.
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