

## Elections to EACVI Board 2018-2020

**Application for the position:**

**EACVI Vice-President-Elect (Cardiovascular  
Magnetic Resonance)**



1. Your Identity	
Title	Prof
Family Name(s)	Gerber
First Name(s)	Bernhard
Birth Date	July 6, 1967
Institute/Organisation	Cliniques St. Luc, Université Catholique de Louvain
Department	Cardiology
City	Brussels
Country	Belgium



## 2. General Curriculum Vitae (300 words max)

I graduated as MD from the Université Catholique de Louvain, Brussels Belgium in 1992.

From 1992-1998, I performed my internal medicine fellowship and my cardiology specialization in the Cliniques Universitaires St Luc UCL. During this time I became interested in non-invasive cardiac imaging and performed a 2 year clinical research fellowship in cardiac PET. After obtaining my cardiology specialization in 1998, I went to the Johns Hopkins Hospital in Baltimore MD 3 years clinical and research postdoctoral fellowship at to learn and specialize in cMR.

In 2001, I returned to the Cliniques Universitaires St. Luc, Université Catholique de Louvain, Brussels Belgium, where I am currently Clinical Cardiologist, Full Professor of Medicine and director of the research pole of cardiology.

My clinical work involves multimodality cardiac imaging using different imaging modalities including echocardiography, cardiac CT, nuclear imaging and particular cardiac MR. Indeed in my institution, I developed and established the use of both cardiac MR and cardiac CT, and currently direct the cardiac MR and perform and report approximately 700 cardiac MR/year. Also I am level 3 certified in cardiac MR, and trained more than 25 fellows in cardiac MR. I also direct, together with the radiology department, cardiac CT in our institution. Last but not least I supervise and report approximately 4500 transthoracic and 700 transoesophageal echocardiographies annually.

My research activities have been dedicated on the use and cross-comparison of different non-invasive imaging techniques, notably cardiac MR, cardiac CT, PET and echocardiography in ischemic and valvular heart disease and heart failure. In this field I published more than 130 papers.

I became fellow of the European Society of Cardiology (FESC) in 2005, Fellow of the American College of Cardiology (FACC) in 2011 and Fellow of the American Heart Association (FAHA) in 2015.

From 2010 until 2014 I served as nucleus member and treasurer of the working groups of cardiac MR and I worked intensely in the process of incorporation of the working groups into the EACVI. I was abstract chair for the 2016 EuroCMR meeting of the EACVI. Since 2014 I am also Associate Editor of the European Heart Journal Cardiovascular Imaging (cMR section). During the 2 last years I served as Councilor on the EACVI board, as well as in the EACVI Scientific Documents Commission. Finally I am President Elect of the Belgian Working Group for Non-invasive cardiac imaging (BWGNCI) of the Belgian Society of Cardiology.





### 3. Previous experience(s) in the EACVI or ESC or your National Bodies?

- 2002-2006: Nucleus Member of the working group of cardiovascular MR of the ESC.
- 2010-2014: Treasurer of the working group of cardiovascular MR of the ESC.
- 2012-2018: Nucleus Member of the Belgian Working Group for Non-invasive Cardiac Imaging.
- 2014: Associate Editor European Heart Journal CV Imaging
- 2016-2018: EACVI Councillor, Member of the Scientific Documents Council
- 2019-2020 : Chair of the Belgian Working Group for Non-invasive Cardiac Imaging

### 4. Are you a Board or Nucleus Member of another scientific organisation?

Yes ☐ No ☒

If Yes, please specify:

**5. Publications (please list 10 max)**

1. T Edvardsen, **BL Gerber**, J Garot, DA Bluemke, JAC Lima, OA Smiseth Quantitative assessment of intrinsic regional myocardial deformation by Doppler strain rate echocardiography in humans: validation against three-dimensional tagged magnetic resonance imaging *Circulation* 106 (1), 50-56 2002
2. **BL Gerber**, J Garot, DA Bluemke, KC Wu, JAC Lima Accuracy of contrast-enhanced magnetic resonance imaging in predicting improvement of regional myocardial function in patients after acute myocardial infarction *Circulation* 106 (9), 1083-1089, 2002
3. **BL Gerber**, B Belge, GJ Legros, P Lim, A Poncelet, A Pasquet, G Gisellu, E Coche, JL Vanoverschelde Characterization of acute and chronic myocardial infarcts by multidetector computed tomography: comparison with contrast-enhanced magnetic resonance *Circulation* 113 (6), 823-833, 2006
4. LC Amado, **BL Gerber**, SN Gupta, DW Rettmann, G Szarf, R Schock, K Nazir, D Kraitchman, JA Lima Accurate and objective infarct sizing by contrast-enhanced magnetic resonance imaging in a canine myocardial infarction model *Journal of the American College of Cardiology* 44 (12), 2383-2389, 2004
5. **BL Gerber**, CE Rochitte, JA Melin, ER McVeigh, DA Bluemke, KC Wu, LC Becker, JA Lima Microvascular obstruction and left ventricular remodeling early after acute myocardial infarction *Circulation* 101 (23), 2734-2741 2000
6. **BL Gerber**, SV Raman, K Nayak, FH Epstein, P Ferreira, L Axel, D Kraitchman Myocardial first-pass perfusion cardiovascular magnetic resonance: history, theory, and current state of the art *Journal of Cardiovascular Magnetic Resonance* 10 (1), 18 2008
7. AC Pouleur, JB Le Polain De Waroux, A Pasquet, JLJ Vanoverschelde, **BL Gerber** Aortic Valve Area Assessment: Multidetector CT Compared with Cine MR Imaging and Transthoracic and Transesophageal Echocardiography *Radiology* 244 (3), 745-754 2007
8. **BL Gerber**, MF Rousseau, SA Ahn, JBP de Waroux, AC Pouleur, T Philips, D Vancraeynest, A Pasquet, JL Vanoverschelde Prognostic value of myocardial viability by delayed-enhanced magnetic resonance in patients with coronary artery disease and low ejection fraction: impact of revascularization therapy. *Journal of the American College of Cardiology* 59 (9), 825-835 2011
9. G Barone-Rochette, S Piérard, CDM de Ravenstein, S Seldrum, J Melchior, F Maes, AC Pouleur, D Vancraeynest, A Pasquet, JL Vanoverschelde, **BL Gerber** Prognostic significance of LGE by CMR in aortic stenosis patients undergoing valve replacement. *Journal of the American College of Cardiology* 64 (2), 144-154 2014
10. J Kefer, E Coche, G Legros, A Pasquet, C Grandin, BE Van Beers, JL Vanoverschelde, **BL Gerber** Head-to-head comparison of three-dimensional navigator-gated magnetic resonance imaging and 16-slice computed tomography to detect coronary artery stenosis in patients *Journal of the American College of Cardiology* 46 (1), 92-100 2006



#### 6. Received Hirsch Index (Year / Index)

Total H index 43 (Google Scholar)  
Annual H score: 1.95

#### 7. Received Impact Factor(s) (Year / IF)

Total citations 7445 (Google Scholar).  
334 citations / year

#### 8. Why are you interested in joining the EACVI Board (300 words max)?

Given my longstanding expertise in cardiac multimodality imaging, and particular cardiac MRI, I am very enthusiastic on the creation of the EACVI as the first and only international association to represent cardiac imaging as a whole. During my work in the EACVI board, I became strongly convinced that EACVI is an extremely important actor to develop and defend cardiac multimodality imaging as a **CARDIOLOGY SUBSPECIALITY**. In particular I believe that ALL cardiac imaging and in *particular cardiac MRI* should be performed **exclusively by cardiologist** with full understanding of cardiovascular pathology and physiology and knowledge of all imaging modalities.

I therefore would like to serve as vice-chair of the cardiac MR section to:

- 1) defend cardiac MR as an important modality in a multimodality imaging strategy for cardiologists.
- 2) promote training and accreditation of cardiologists in cardiac MRI.
- 3) define strategies, training and recommendations so that cardiologist become and remain the primary actors for ALL modalities in cardiac imaging.
- 4) continue the further development of the EuroCMR congress.
- 5) promote research and education in cardiac MR.
- 6) Last but not least I want to collaborate with other cardiac imaging specialists to further develop EACVI as **THE** multimodality cardiac imaging society.