

Elections to EACVI Board 2018-2020

Application for the position:
EACVI President-Elect



1. Your Identity	
Title	Professor
Family Name(s)	Cosyns
First Name(s)	Bernard
Birth Date	13/09/1962
Institute/Organisation	Universitair Ziekenhuis Brussel
Department	Cardiology
City	Brussels
Country	Belgium



2. General Curriculum Vitae (300 words max)

Positions

Medicine, Université Libre de Bruxelles (ULB), 1987

Licence Cardiology, (ULB), Magna cum Laude, 1992

Cardiology Department, CHU St Pierre, Brussels, 1993-2001

Head of Cardiology, CHIREC Braine, 2001-2006

PhD in Medical Science, Vrij Universiteit Brussel (VUB), 2009

Co-director In Vivo Molecular and cellular imaging (ICMI) center, Cardiology, 2009-

Head of Internal Medicine, CHIREC Braine, 2005-2015

Head of Cardiology & Professor of Cardiology, Universitair Ziekenhuis Brussel (VUB), 2015-today

Profile

Husband and father, 3 children (Gaëlle, Vincent & Bruno)

Applying gender parity in the Cardiology Department

Clinical Cardiologist with focus on imaging:

- EACVI certified echocardiographer and chair of the UZB-echolab, EACVI accredited.
- Cardiac Magnetic Resonance, SCMR certified level 1
- CT angiography, FFR-CT and perfusion
- PET-CT in endocarditis and molecular imaging (nuclear cardiology)

Trained in acute cardiac care

Structural heart disease (TAVI, Mitraclip, PFO closure, LAA occlusion...)

Clinical Research with focus on:

- Valve disease (toxic, calcific aortic stenosis, mitral valve prolapse, endocarditis...)
- Heart failure
- Coronary artery disease
- Cardio-oncology
- Brugada Syndrome
- Atrial fibrillation
- Rare disease (ERN Heart -Guard Center certification 2017)
- Pericardial disease

Fundamental research with focus on:

- Molecular imaging in atherosclerosis
- Imaging in valve disease
- Cardio-oncology



***Publications***

165 Medline publications

3176 citations

15 textbooks chapters

Co-editor EACVI Echo handbook (more than 8000 sold)

Co-Author 2 ESC guidelines (Cardiovascular prevention and endocarditis)

Reviewer and Editorial board:

Reviewer for American Journal of Cardiology, Journal of the American College of Cardiology, Journal of the American College of Cardiology imaging, Stroke, International Journal of Cardiology, Acta Cardiologica, Acta Diabetologica, Cardiovascular ultrasound, Clinical Cardiology, Journal of the American Society of Echocardiography, Heart, European journal of Cardiovascular imaging (top reviewer 2015-2018), Circulation

Deputy editor Journal of Cardiovascular Imaging (2013-), Deputy editor of Acta Cardiologica (2014-), Associate editor Echo research and Practice (British Journal of echocardiography) (2014-)

Abstract Grader:

- European Society of Cardiology 2005 -
- European Association of Echocardiography (Cardiovascular imaging) 2006-
- Belgian Society of Cardiology 2005 -
- American College of Cardiology 2013-

International representation:

- Europe: Romania, Macedonia, Hungary, Croatia, Turkey, Greece, Cyprus, Poland, Portugal, Spain, France, Austria, Germany, Norway, Sweden, Italy, United Kingdom ...
- Outside Europe: China, United States, Morocco, South Africa, India ...





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

- 2010-2012, Elected chair of the web committee **EACVI**
- 2012-2014 Elected chair of the Education Committee of the **EACVI**
- 2014-2016 Elected Chair of the Echo section of the **EACVI** (Chair of Euroechoimaging and director of the Scientific program committee 2015 and 2016, advisor 2016-2018)
- 2016-2018 Elected Treasurer of the **EACVI**

- **ESC** Web committee board member 2010-2012
- **ESC** Education Committee board member 2012-2016 (Alec Vahanian, chair)
- **ESC** SACC Committee board member 2016-2018 (Lino Gonzalvez, chair)
- **ESC** Congress Program Committee 2016-2018
- **ESC** membership Committee board member 2018 -

- **BSC** (Belgian Society of Cardiology) board member 2015-
- Elected president of the **Belgian Working Group of Non Invasive Cardiac Imaging** (2013-2015)

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

Yes ☒ No ☐

If Yes, please specify:

- Director of Acta Cardiologica 2015-
- Expert for the FNRS (Fonds National de la recherche scientifique) 2010-

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

Fractional Flow Reserve Derived From **Computed Tomographic Angiography** in Patients With Multivessel CAD.

Collet C, Miyazaki Y, Ryan N, Asano T, Tenekecioglu E, Sonck J, Andreini D, Sabate M, Brugaletta S, Stables RH, Bartorelli A, de Winter RJ, Katagiri Y, Chichareon P, De Maria GL, Suwannasom P, Cavalcante R, Jonker H, Morel MA, **Cosyns B**, Kappetein AP, Taggart DT, Farooq V, Escaned J, Banning A, Onuma Y, Serruys PW.

J Am Coll Cardiol. 2018 Jun 19;71(24):2756-2769. doi: 10.1016/j.jacc.2018.02.053

Echocardiographic reference ranges for normal left atrial function parameters: results from the EACVI NORRE study.

Sugimoto T, Robinet S, Dulgheru R, Bernard A, Ilardi F, Contu L, Addetia K, Caballero L, Kacharava G, Athanassopoulos GD, Barone D, Baroni M, Cardim N, Hagendorff A, Hristova K, Lopez T, de la Morena G, Popescu BA, Penicka M, Ozyigit T, Rodrigo Carbonero JD, van de Veire N, Von Bardeleben RS, Vinereanu D, Zamorano JL, Go YY, Marchetta S, Nchimi A, Rosca M, Calin A, Moonen M, Cimino S, Magne J, **Cosyns B**, Galli E, Donal E, Habib G, Esposito R, Galderisi M, Badano LP, Lang RM, Lancellotti P; NORRE Study .

Eur Heart J Cardiovasc Imaging. 2018 Jun 1;19(6):630-638. doi: 10.1093/ehjci/jej018

Clinical validation of an **ultrasound** quantification score for aortic valve calcifications.

Gillis K, Bala G, Roosens B, Hernot S, Remory I, Scheirlynck E, Geers J, Droogmans S,

Cosyns B.

Int J Cardiol. 2018 Feb 1;252:68-71. doi: 10.1016/j.ijcard.2017.07.020

Standardization of adult **transthoracic echocardiography** reporting in agreement with recent chamber quantification, diastolic function, and heart valve disease recommendations: an expert consensus document of the European Association of Cardiovascular Imaging.

Galderisi M, **Cosyns B**, Edvardsen T, Cardim N, Delgado V, Di Salvo G, Donal E, Sade LE, Ernande L, Garbi M, Grapsa J, Hagendorff A, Kamp O, Magne J, Santoro C, Stefanidis A, Lancellotti P, Popescu B, Habib G; 2016–2018 EACVI Scientific Documents Committee; 2016–2018 EACVI Scientific Documents Committee.

Eur Heart J Cardiovasc Imaging. 2017 Dec 1;18(12):1301-1310. doi: 10.1093/ehjci/jex244

Evaluation of **[99mTc]Radiolabeled** Macrophage Mannose Receptor-Specific Nanobodies for Targeting of Atherosclerotic Lesions in Mice.

Bala G, Baudhuin H, Remory I, Gillis K, Debie P, Krasniqi A, Lahoutte T, Raes G, Devoogdt N, **Cosyns B**, Hernot S.

Mol Imaging Biol. 2018 Apr;20(2):260-267. doi: 10.1007/s11307-017-1117-3

Multimodality Imaging in Restrictive Cardiomyopathies: An EACVI expert consensus document In collaboration with the "Working Group on myocardial and pericardial diseases" of the European Society of Cardiology Endorsed by The Indian Academy of Echocardiography.

Habib G, Bucciarelli-Ducci C, Caforio ALP, Cardim N, Charron P, **Cosyns B**, Dehaene A, Derumeaux G, Donal E, Dweck MR, Edvardsen T, Erba PA, Ernande L, Gaemperli O, Galderisi M, Grapsa J, Jacquier A, Klingel K, Lancellotti P, Neglia D, Pepe A, Perrone-Filardi P, Petersen SE, Plein S, Popescu BA, Reant P, Sade LE, Salaun E, Slart RHJA, Tribouilloy C, Zamorano J; EACVI Scientific Documents Committee; Indian Academy of





Echocardiography.

Eur Heart J Cardiovasc Imaging. 2017 Oct 1;18(10):1090-1121. doi: 10.1093/ehjci/jex034

2016 European Guidelines on **cardiovascular disease prevention** in clinical practice: The Sixth Joint Task Force of the European Society of Cardiology and Other Societies on Cardiovascular Disease Prevention in Clinical Practice (constituted by representatives of 10 societies and by invited experts) Developed with the special contribution of the European Association for Cardiovascular Prevention & Rehabilitation (EACPR).

Piepoli MF, Hoes AW, Agewall S, Albus C, Brotons C, Catapano AL, Cooney MT, Corrà U, **Cosyns B**, Deaton C, Graham I, Hall MS, Hobbs FDR, Løchen ML, Löllgen H, Marques-Vidal P, Perk J, Prescott E, Redon J, Richter DJ, Sattar N, Smulders Y, Tiberi M, van der Worp HB, van Dis I, Verschuren WMM, Binno S; ESC Scientific Document Group.

Eur Heart J. 2016 Aug 1;37(29):2315-2381. doi: 10.1093/eurheartj/ehw106

Targeting of vascular cell adhesion molecule-1 by **18F-labelled nanobodies for PET/CT** imaging of inflamed atherosclerotic plaques.

Bala G, Blykers A, Xavier C, Descamps B, Broisat A, Ghezzi C, Fagret D, Van Camp G, Caveliers V, Vanhove C, Lahoutte T, Droogmans S, **Cosyns B**, Devoogdt N, Hernot S.

Eur Heart J Cardiovasc Imaging. 2016 Sep;17(9):1001-8. doi: 10.1093/ehjci/jev346.

E-learning in cardiovascular imaging: another step towards a structured educational approach.

Cosyns B, De Diego JJ, Stefanidis A, Galderisi M, Ernande L, Underwood SR, Bucciarelli-Ducci C, Lancellotti P, Habib G; EACVI education, web-communication and certification committees; Document reviewers: Thor Edvardsen and Julien Magne.

Eur Heart J Cardiovasc Imaging. 2015 May;16(5):463-5. doi: 10.1093/ehjci/jev022

Update of the European Association of Cardiovascular Imaging (EACVI) Core Syllabus for the European **Cardiovascular Magnetic Resonance** Certification Exam.

Petersen SE, Almeida AG, Alpendurada F, Boubertakh R, Bucciarelli-Ducci C, **Cosyns B**, Greil GF, Karamitsos TD, Lancellotti P, Stefanidis AS, Tann O, Westwood M, Plein S; Education Committee of European Association of Cardiovascular Imaging Association (EACVI).

Eur Heart J Cardiovasc Imaging. 2014 Jul;15(7):728-9. doi: 10.1093/ehjci/jeu076





6. Received Hirsch Index (Year / Index)

H index 32

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

2018/ 123,376 (August 2018)

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

The EACVI is now a strong and respected association around the world. This has been made possible with the help of a dedicated team that I was happy to be part of.

I have been devoted to the association since many years from now, trying to provide some creativity and working hard developing activities in a more professional way:

- Launch of the first EACVI webinar
- Launch of the first sponsored EACVI webinar
- Launch of the first Joint webinar between associations (EACVI/EHRA)
- Initiator of Core Syllabus in imaging subspecialties (Echo, CMR, Nuclear, CT) for a structured approach to education (cursus and products)
- First e-learning course on echocardiography (basic/ transoesophageal)
- Monthly financial report from IRT (with the help of the IRT chair) ...

The internal experience within EACVI as member of various committees (web, education, scientific, research and innovation, IRT...), my treasurer function in the executive board, and also my exposure within the ESC help me to understand the EACVI structure as well as the way the association works from bottom to top. During the last years, I have not forgotten the young community, trying to push forward their initiatives and talent, and I intend to continue to do so. Similarly, the involvement of all constituent bodies (HIT, national societies, eastern countries...) has always been of great importance to me.

I have been actively participating to the integration of the CMR and CT/nuclear sections in terms of activities, and education in particular.

I had the opportunity to learn a lot from the EACVI groups in terms of management, diplomacy, strategy, and professionalism on top of great friendship.

Future of the EACVI

My mixed clinical cardiologist and research track profile corresponds to the needs and the future objectives of the EACVI. It would be helpful to develop education and research in parallel within the association.

With the occurrence of new technologies, but also new regulations, the members/ community will

require guidance and services to guide them. I'm ready to serve the association in that perspective. The association is now truly moving in the direction of multimodality imaging. Although it may appear as a challenge, this change is already present. A harmonious development of a stepwise approach to clinical problems with multimodality imaging will require an evolution in function of the progress of each technique. This will allow attracting more and more participants in the community. Although I'm more specialized in echocardiography, my knowledge and my interest in CMR, CT and nuclear cardiology allow me to get the "big picture" regarding multimodality imaging.

The promotion of **all techniques** in terms of scientific input, education and research should remain a primary objective of the association.

IT, AI, digital health and big data in imaging are also a kind of train that the association can't miss. This will be a priority for the next following years.

Finally, collaboration is a corner stone for the development of any group and the relationship with other associations/societies within or outside the ESC family will also remain a crucial target to develop the EACVI even further.