

Curriculum vitae

Pr B.Cosyns



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

A handwritten signature in blue ink, consisting of a large, stylized 'C' followed by a smaller 'o' and a horizontal line. A small '+' symbol is located to the right of the signature.

13/07/2022

Profile

Born 13/09/1962

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

240 Medline publications

29916 citations (H-index 59)

25 textbooks chapters

Co-editor EACVI Echo handbook (more than 9000 sold)

Co-Author 8 ESC guidelines

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 ,Austria, Hungary, ...
- Outside Europe: China, United States, Morocco, South Africa, India, Korea, Japan ...

Previous experience ESC / EACVI / BSC

- 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**
- 2020- 2022 President 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 Gonzalez, chair)
- **ESC** Congress Program Committee 2016-2018
- **ESC** membership Committee board member 2018 –
- **ESC** board member 2020-2022
- **BSC** (Belgian Society of Cardiology) board member 2015-
- Elected president of the **Belgian Working Group of Non Invasive Cardiac Imaging** (2013-2015)
- Director of Acta Cardiologica 2015-
- Expert for the FNRS (Fonds National de la recherche scientifique) 2010-

Publications:

1: Visseren FLJ, Mach F, Smulders YM, Carballo D, Koskinas KC, Bäck M, Benetos A, Biffi A, Boavida JM, Capodanno D, Cosyns B, Crawford C, Davos CH, Desormais I, Di Angelantonio E, Franco OH, Halvorsen S, Hobbs FDR, Hollander M, Jankowska EA, Michal M, Sacco S, Sattar N, Tokgozoglu L, Tonstad S, Tsioufis KP, van Dis I, van Gelder IC, Wanner C, Williams B; ESC Scientific Document Group. Linee guida ESC 2021 per la prevenzione delle malattie cardiovascolari nella pratica clinica elaborate dalla Task Force per la prevenzione delle malattie cardiovascolari nella pratica clinica costituita da rappresentanti della Società Europea di Cardiologia e di 12 società medico-scientifiche con il contributo straordinario dell'Associazione Europea di Cardiologia Preventiva (EAPC) [2021 ESC Guidelines on cardiovascular disease prevention in clinical practice]. *G Ital Cardiol (Rome)*. 2022 Jun;23(6 Suppl 1):e3-e115. Italian. doi: 10.1714/3808.37926. PMID: 35708476.

2: Visseren FLJ, Mach F, Smulders YM, Carballo D, Koskinas KC, Bäck M, Benetos A, Biffi A, Boavida JM, Capodanno D, Cosyns B, Crawford C, Davos CH, Desormais I, Angelantonio ED, Franco OH, Halvorsen S, Richard Hobbs FD, Hollander M, Jankowska EA, Michal M, Sacco S, Sattar N, Tokgozoglu L, Tonstad S, Tsioufis KP, van Dis I, van Gelder IC, Wanner C, Williams B; ESC Scientific Document Group. 2021 ESC Guidelines on cardiovascular disease prevention in clinical practice: Developed by the Task Force for cardiovascular disease prevention in clinical practice with representatives of the European Society of Cardiology and 12 medical societies With the special contribution of the European Association of Preventive Cardiology (EAPC). *Rev Esp Cardiol (Engl Ed)*. 2022 May;75(5):429. English, Spanish. doi: 10.1016/j.rec.2022.04.003. PMID: 35525570.

3: Bohbot Y, Habib G, Laroche C, Stöhr E, Chirouze C, Hernandez-Meneses M, Melissopoulou M, Mutlu B, Scheggi V, Branco L, Olmos C, Reyes G, Pazdernik M, Lung B, Sow R, Mirocevic M, Lancellotti P, Tribouilloy C; EORP EURO-ENDO Registry Investigators Group. Characteristics, management, and outcomes of patients with left-sided infective endocarditis complicated by heart failure: a substudy of the ESC-EORP EURO-ENDO (European infective endocarditis) registry. *Eur J Heart Fail.* 2022 May 4. doi: 10.1002/ejhf.2525. Epub ahead of print. PMID: 35508915.

4: Pontone G, Rossi A, Guglielmo M, Dweck MR, Gaemperli O, Nieman K, Pugliese F, Maurovich-Horvat P, Gimelli A, Cosyns B, Achenbach S. Erratum to: Clinical applications of cardiac computed tomography: a consensus paper of the European Association of Cardiovascular Imaging-part I. *Eur Heart J Cardiovasc Imaging.* 2022 Jun 1;23(6):e274. doi: 10.1093/ehjci/jeac047. Erratum for: *Eur Heart J Cardiovasc Imaging.* 2022 Feb 22;23(3):299-314. PMID: 35403685; PMCID: PMC9159740.

5: Martens B, Michiels V, Cosyns B. Syndromic pulmonary artery aneurysm. *Acta Cardiol.* 2022 Mar 22:1-2. doi: 10.1080/00015385.2022.2054495. Epub ahead of print. PMID: 35315734.

6: Lancellotti P, Pibarot P, Chambers J, La Canna G, Pepi M, Dulgheru R, Dweck M, Delgado V, Garbi M, Vannan MA, Montaigne D, Badano L, Maurovich-Horvat P, Pontone G, Vahanian A, Donal E, Cosyns B; Scientific Document Committee of the European Association of Cardiovascular Imaging. Multi-modality imaging assessment of native valvular regurgitation: an EACVI and ESC council of valvular heart disease position paper. *Eur Heart J Cardiovasc Imaging.* 2022 Apr 18;23(5):e171-e232. doi: 10.1093/ehjci/jeab253. PMID: 35292799.

7: Pazdernik M, Lung B, Mutlu B, Alla F, Riezebos R, Kong W, Nunes MCP, Pierard L, Srdanovic I, Yamada H, De Martino A, Miglioranza MH, Magne J, Piper C, Laroche C, Maggioni AP, Lancellotti P, Habib G, Selton-Suty C; EURO-ENDO Investigators group. Surgery and outcome of infective endocarditis in octogenarians: prospective data from the ESC EORP EURO-ENDO registry. *Infection.* 2022 Mar 15. doi: 10.1007/s15010-022-01792-0. Epub ahead of print. PMID: 35290614.

8: Tsugu T, Tanaka K, Belsack D, Devos H, Nagatomo Y, Michiels V, Argacha JF, Cosyns B, Buls N, De Maeseneer M, De Mey J. Effects of left ventricular mass on computed tomography derived fractional flow reserve in significant obstructive coronary artery disease. *Int J Cardiol.* 2022 May 15;355:59-64. doi: 10.1016/j.ijcard.2022.03.005. Epub 2022 Mar 9. PMID: 35278570.

9: Sengupta SP, Prendergast B, Laroche C, Furnaz S, Ronderos R, Almaghraby A, Asch FM, Blechova K, Zaky H, Strahilevitz J, Dworakowski R, Miyasaka Y, Sebag I, Izumi C, Axler O, Jamiel A, Philip M, Campos Vieira ML, Lancellotti P, Habib G; EURO-ENDO Investigators Group. Socio-Economic Variations Determine the Clinical Presentation, Aetiology and Outcome of Infective Endocarditis: a Prospective Cohort Study from the ESC-EORP EURO-ENDO (European Infective Endocarditis) Registry. *Eur Heart J Qual Care Clin Outcomes.* 2022 Mar 12:qcac012. doi: 10.1093/ehjqcco/qcac012. Epub ahead of print. PMID: 35278091.

10: Surkova E, Cosyns B, Gerber B, Gimelli A, La Gerche A, Ajmone Marsan N. The dysfunctional right ventricle: the importance of multi-modality imaging. *Eur Heart J Cardiovasc Imaging.* 2022 Jun 21;23(7):885-897. doi: 10.1093/ehjci/jeac037. PMID: 35234853; PMCID: PMC9212350.

11: Chivulescu M, Aabel EW, Gjertsen E, Hopp E, Scheirlyncx E, Cosyns B, Lyseggen E, Edvardsen T, Lie ØH, Dejgaard LA, Haugaa KH. Electrical markers and arrhythmic risk associated with myocardial fibrosis in mitral valve prolapse. *Europace.* 2022 Feb 28:euac017. doi: 10.1093/europace/euac017. Epub ahead of print. PMID: 35226070.

12: Cosyns B, Helfen A, Leong-Poi H, Senior R. How to perform an ultrasound contrast myocardial perfusion examination? *Eur Heart J Cardiovasc Imaging.* 2022 Jun 1;23(6):727-729. doi: 10.1093/ehjci/jeac028. PMID: 35213705.

- 13: Galloo X, Stassen J, Hirasawa K, Chimed S, Cosyns B, Ajmone Marsan N, Delgado V, van der Bijl P, Bax JJ. Impact of baseline left ventricular volume on left ventricular reverse remodeling after cardiac resynchronization therapy. *Heart Rhythm*. 2022 Jun;19(6):927-936. doi: 10.1016/j.hrthm.2022.02.013. Epub 2022 Feb 18. PMID: 35183736.
- 14: Pontone G, Rossi A, Guglielmo M, Dweck MR, Gaemperli O, Nieman K, Pugliese F, Maurovich-Horvat P, Gimelli A, Cosyns B, Achenbach S. Clinical applications of cardiac computed tomography: a consensus paper of the European Association of Cardiovascular Imaging-part II. *Eur Heart J Cardiovasc Imaging*. 2022 Mar 22;23(4):e136-e161. doi: 10.1093/ehjci/jeab292. PMID: 35175348; PMCID: PMC8944330.
- 15: Pontone G, Rossi A, Guglielmo M, Dweck MR, Gaemperli O, Nieman K, Pugliese F, Maurovich-Horvat P, Gimelli A, Cosyns B, Achenbach S. Clinical applications of cardiac computed tomography: a consensus paper of the European Association of Cardiovascular Imaging-part I. *Eur Heart J Cardiovasc Imaging*. 2022 Feb 22;23(3):299-314. doi: 10.1093/ehjci/jeab293. Erratum in: *Eur Heart J Cardiovasc Imaging*. 2022 Jun 1;23(6):e274. PMID: 35076061; PMCID: PMC8863074.
- 16: Price S, Cosyns B. In memoriam: Dr Derek Gibson. *Eur Heart J Cardiovasc Imaging*. 2022 Apr 18;23(5):598-599. doi: 10.1093/ehjci/jeac012. PMID: 35076060.
- 17: Joshi SS, Stankovic I, Demirkiran A, Haugaa K, Maurovich-Horvat P, Popescu BA, Cosyns B, Edvardsen T, Petersen SE, Carvalho RF, Cameli M, Dweck MR. EACVI survey on burnout amongst cardiac imaging specialists during the 2019 coronavirus disease pandemic. *Eur Heart J Cardiovasc Imaging*. 2022 Mar 22;23(4):441-446. doi: 10.1093/ehjci/jeac002. PMID: 35061874; PMCID: PMC8807202.
- 18: Luchian ML, Motoc A, Lochy S, Magne J, Belsack D, De Mey J, Roosens B, Van den Bussche K, Boeckstaens S, Chameleva H, Geers J, Houard L, De Potter T, Allard S, Weytjens C, Droogmans S, Cosyns B. Subclinical Myocardial Dysfunction in Patients with Persistent Dyspnea One Year after COVID-19. *Diagnostics (Basel)*. 2021 Dec 28;12(1):57. doi: 10.3390/diagnostics12010057. PMID: 35054224; PMCID: PMC8775030.
- 19: Cosyns B, Roosens B. Surgery in infective endocarditis: does quantity mean quality? *Eur Heart J Acute Cardiovasc Care*. 2022 Feb 8;11(2):111-112. doi: 10.1093/ehjacc/zuab131. PMID: 35043950.
- 20: Motoc A, Scheirlynck E, Roosens B, Luchian ML, Chameleva H, Gevers M, Galloo X, von Kemp B, de Asmundis C, Magne J, Droogmans S, Cosyns B. Additional value of left atrium remodeling assessed by three-dimensional echocardiography for the prediction of atrial fibrillation recurrence after cryoballoon ablation. *Int J Cardiovasc Imaging*. 2021 Dec 17. doi: 10.1007/s10554-021-02493-9. Epub ahead of print. PMID: 34919165.
- 21: Cosyns B, Roosens B, Lancellotti P, Laroche C, Dulgheru R, Scheggi V, Vilacosta I, Pasquet A, Piper C, Reyes G, Mahfouz E, Kobalava Z, Piroth L, Kasprzak JD, Moreo A, Faucher JF, Ternacle J, Meshal M, Maggioni AP, Iung B, Habib G. Cancer and Infective Endocarditis: Characteristics and Prognostic Impact. *Front Cardiovasc Med*. 2021 Nov 11;8:766996. doi: 10.3389/fcvm.2021.766996. PMID: 34859076; PMCID: PMC8631931.
- 22: Eugène M, Duchnowski P, Prendergast B, Wendler O, Laroche C, Monin JL, Jobic Y, Popescu BA, Bax JJ, Vahanian A, Iung B; EORP VHD II Registry Investigators Group. Contemporary Management of Severe Symptomatic Aortic Stenosis. *J Am Coll Cardiol*. 2021 Nov 30;78(22):2131-2143. doi: 10.1016/j.jacc.2021.09.864. PMID: 34823655.

- 23: Motoc A, Luchian ML, Scheirlynck E, Roosens B, Chameleva H, Gevers M, Galloo X, von Kemp B, Ramak R, Sieira J, de Asmundis C, Chierchia GB, Magne J, Weytjens C, Droogmans S, Cosyns B. Incremental value of left atrial strain to predict atrial fibrillation recurrence after cryoballoon ablation. *PLoS One*. 2021 Nov 19;16(11):e0259999. doi: 10.1371/journal.pone.0259999. PMID: 34797844; PMCID: PMC8604362.
- 24: Claeys MJ, Debonnaire P, Bracke V, Bilotta G, Shkarpa N, Vanderheyden M, Coussement P, Vanderheyden J, de Heyning CMV, Cosyns B, Pouleur AC, Lancellotti P, Paelinck BP, Ferdinande B, Dubois C. Clinical and Hemodynamic Effects of Percutaneous Edge-to-Edge Mitral Valve Repair in Atrial Versus Ventricular Functional Mitral Regurgitation. *Am J Cardiol*. 2021 Dec 15;161:70-75. doi: 10.1016/j.amjcard.2021.08.062. PMID: 34794621.
- 25: Marwick TH, Gimelli A, Plein S, Bax JJ, Charron P, Delgado V, Donal E, Lancellotti P, Levelt E, Maurovich-Horvat P, Neubauer S, Pontone G, Saraste A, Cosyns B, Edvardsen T, Popescu BA, Galderisi M, Derumeaux G; Reviewers: This document was reviewed by members of the 2020–2022 EACVI Scientific Documents Committee, Bäck M, Bertrand PB, Dweck M, Keenan N, Magne J, Neglia D, Stankovic I. Multimodality imaging approach to left ventricular dysfunction in diabetes: an expert consensus document from the European Association of Cardiovascular Imaging. *Eur Heart J Cardiovasc Imaging*. 2022 Jan 24;23(2):e62-e84. doi: 10.1093/ehjci/jeab220. PMID: 34739054.
- 26: CAPACITY-COVID Collaborative Consortium and LEOSS Study Group. Clinical presentation, disease course, and outcome of COVID-19 in hospitalized patients with and without pre-existing cardiac disease: a cohort study across 18 countries. *Eur Heart J*. 2022 Mar 14;43(11):1104-1120. doi: 10.1093/eurheartj/ehab656. PMID: 34734634.
- 27: Smiseth OA, Morris DA, Cardim N, Cikes M, Delgado V, Donal E, Flachskampf FA, Galderisi M, Gerber BL, Gimelli A, Klein AL, Knuuti J, Lancellotti P, Mascherbauer J, Milicic D, Seferovic P, Solomon S, Edvardsen T, Popescu BA; Reviewers: This document was reviewed by members of the 2018–2020 EACVI Scientific Documents Committee. Multimodality imaging in patients with heart failure and preserved ejection fraction: an expert consensus document of the European Association of Cardiovascular Imaging. *Eur Heart J Cardiovasc Imaging*. 2022 Jan 24;23(2):e34-e61. doi: 10.1093/ehjci/jeab154. PMID: 34729586.
- 28: Cosyns B, Sade LE, Gerber BL, Gimelli A, Muraru D, Maurer G, Edvardsen T. The year 2020 in the European Heart Journal-Cardiovascular Imaging: part II. *Eur Heart J Cardiovasc Imaging*. 2021 Oct 29;jeab225. doi: 10.1093/ehjci/jeab225. Epub ahead of print. PMID: 34718480.
- 29: Luchian ML, Motoc AI, Lochy S, Magne J, Roosens B, Belsack D, Van den Bussche K, von Kemp B, Galloo X, François C, Scheirlynck E, Boeckstaens S, De Potter T, Seyler L, van Laethem J, Hennebicq S, Weytjens C, Droogmans S, Cosyns B. Troponin T in COVID-19 hospitalized patients: Kinetics matter. *Cardiol J*. 2021;28(6):807-815. doi: 10.5603/CJ.a2021.0104. Epub 2021 Sep 28. PMID: 34581431; PMCID: PMC8747831.
- 30: Visseren FLJ, Mach F, Smulders YM, Carballo D, Koskinas KC, Bäck M, Benetos A, Biffi A, Boavida JM, Capodanno D, Cosyns B, Crawford C, Davos CH, Desormais I, Di Angelantonio E, Franco OH, Halvorsen S, Hobbs FDR, Hollander M, Jankowska EA, Michal M, Sacco S, Sattar N, Tokgozoglu L, Tonstad S, Tsioufis KP, van Dis I, van Gelder IC, Wannan C, Williams B; ESC Scientific Document Group. 2021 ESC Guidelines on cardiovascular disease prevention in clinical practice. *Eur J Prev Cardiol*. 2022 Feb 19;29(1):5-115. doi: 10.1093/eurjpc/zwab154. PMID: 34558602.
- 31: Michiels V, Andreini D, Conte E, Tanaka K, Belsack D, Nijs J, Van Loo I, Argacha JF, Vandeloo B, Roosens B, Vandebussche K, Cosyns B. Long term effects of surgical and transcatheter aortic valve replacement on FFRCT in patients with severe aortic valve stenosis. *Int J Cardiovasc Imaging*. 2022 Feb;38(2):427-434. doi: 10.1007/s10554-021-02401-1. Epub 2021 Sep 8. PMID: 34498201.

32: Edvardsen T, Donal E, Marsan NA, Maurovich-Horvat P, Dweck MR, Maurer G, Petersen SE, Cosyns B. The year 2020 in the European Heart Journal - Cardiovascular Imaging: part I. *Eur Heart J Cardiovasc Imaging*. 2021 Oct 19;22(11):1219-1227. doi: 10.1093/ehjci/jeab148. PMID: 34463734.

33: Visseren FLJ, Mach F, Smulders YM, Carballo D, Koskinas KC, Bäck M, Benetos A, Biffi A, Boavida JM, Capodanno D, Cosyns B, Crawford C, Davos CH, Desormais I, Di Angelantonio E, Franco OH, Halvorsen S, Hobbs FDR, Hollander M, Jankowska EA, Michal M, Sacco S, Sattar N, Tokgozoglu L, Tonstad S, Tsioufis KP, van Dis I, van Gelder IC, Wannan C, Williams B; ESC National Cardiac Societies; ESC Scientific Document Group. 2021 ESC Guidelines on cardiovascular disease prevention in clinical practice. *Eur Heart J*. 2021 Sep 7;42(34):3227-3337. doi: 10.1093/eurheartj/ehab484. PMID: 34458905.

34: Tsugu T, Tanaka K, Belsack D, Devos H, Nagatomo Y, Michiels V, Argacha JF, Cosyns B, Buls N, De Maeseneer M, De Mey J. Impact of vascular morphology and plaque characteristics on computed tomography derived fractional flow reserve in early stage coronary artery disease. *Int J Cardiol*. 2021 Nov 15;343:187-193. doi: 10.1016/j.ijcard.2021.08.036. Epub 2021 Aug 26. PMID: 34454964.

35: Stankovic I, Muraru D, Fox K, Di Salvo G, Hasselberg NE, Breithardt OA, Hansen TB, Neskovic AN, Gargani L, Cosyns B, Edvardsen T; Reviewers: This document was reviewed by members of the 2020-2022 EACVI Scientific Documents Committee: Daniele Andreini, Magnus Bäck, Philippe B. Bertrand, Marc Dweck, Niall Keenan, Julien Magne, Leyla Elif Sade; and by the Chair of the 2020-2022 EACVI Scientific Documents Committee: Erwan Donal.. Level 1 of Entrustable Professional Activities in adult echocardiography: a position statement from the EACVI regarding the training and competence requirements for selecting and interpreting echocardiographic examinations. *Eur Heart J Cardiovasc Imaging*. 2021 Sep 20;22(10):1091-1097. doi: 10.1093/ehjci/jeab143. PMID: 34383895.

36: Senior R, Lindner JR, Edvardsen T, Cosyns B. Erratum to: Ultrasound contrast agent hypersensitivity in patients allergic to polyethylene glycol: position statement by the European Association of Cardiovascular Imaging. *Eur Heart J Cardiovasc Imaging*. 2021 Aug 14;22(9):960. doi: 10.1093/ehjci/jeab144. Erratum for: *Eur Heart J Cardiovasc Imaging*. 2021 Aug 14;22(9):959-960. PMID: 34323965.

37: Luchian ML, Lochy S, Motoc A, Belsack D, Magne J, Roosens B, de Mey J, Tanaka K, Scheirlynck E, Boeckstaens S, Van den Bussche K, De Potter T, von Kemp B, Galloo X, François C, Weytjens C, Droogmans S, Cosyns B. Prognostic Value of Coronary Artery Calcium Score in Hospitalized COVID-19 Patients. *Front Cardiovasc Med*. 2021 Jul 9;8:684528. doi: 10.3389/fcvm.2021.684528. PMID: 34307498; PMCID: PMC8301217.

38: Motoc A, Kessels J, Roosens B, Lacor P, Van de Veire N, De Sutter J, Magne J, Droogmans S, Cosyns B. Impact of the initial clinical presentation on the outcome of patients with infective endocarditis. *Cardiol J*. 2021 Jul 9. doi: 10.5603/CJ.a2021.0075. Epub ahead of print. PMID: 34240402.

39: Cosyns B, Magne J. Exercise Systolic Pulmonary Arterial Pressure in Asymptomatic Mitral Regurgitation: Back to the Future. *J Am Soc Echocardiogr*. 2021 Sep;34(9):941-943. doi: 10.1016/j.echo.2021.06.010. Epub 2021 Jun 26. PMID: 34186169.

40: Senior R, Lindner JR, Edvardsen T, Cosyns B. Ultrasound contrast agent hypersensitivity in patients allergic to polyethylene glycol: position statement by the European Association of Cardiovascular Imaging. *Eur Heart J Cardiovasc Imaging*. 2021 Aug 14;22(9):959-960. doi: 10.1093/ehjci/jeab120. Erratum in: *Eur Heart J Cardiovasc Imaging*. 2021 Jul 29;: PMID: 34164650.

41: Almeida AG, Carpenter JP, Cameli M, Donal E, Dweck MR, Flachskampf FA, Maceira AM, Muraru D, Neglia D, Pasquet A, Plein S, Gerber BL; Reviewers: This document was reviewed by members of the 2018–2020 EACVI Scientific Documents Committee;; chair of the 2018–2020 EACVI Scientific

Documents Committee; 2018–2020 EACVI President;. Multimodality imaging of myocardial viability: an expert consensus document from the European Association of Cardiovascular Imaging (EACVI). *Eur Heart J Cardiovasc Imaging*. 2021 Jul 20;22(8):e97-e125. doi: 10.1093/ehjci/jeab053. PMID: 34097006.

42: De Potter T, Weytjens C, Motoc A, Luchian ML, Scheirlynck E, Roosens B, Tanaka K, Houard L, Droogmans S, Cosyns B. Feasibility, Reproducibility and Validation of Right Ventricular Volume and Function Assessment Using Three- Dimensional Echocardiography. *Diagnostics (Basel)*. 2021 Apr 14;11(4):699. doi: 10.3390/diagnostics11040699. PMID: 33919794; PMCID: PMC8070805.

43: Slart RHJA, Williams MC, Juarez-Orozco LE, Rischpler C, Dweck MR, Glaudemans AWJM, Gimelli A, Georgoulas P, Gheysens O, Gaemperli O, Habib G, Hustinx R, Cosyns B, Verberne HJ, Hyafil F, Erba PA, Lubberink M, Slomka P, Išgum I, Visvikis D, Kolossváry M, Saraste A. Position paper of the EACVI and EANM on artificial intelligence applications in multimodality cardiovascular imaging using SPECT/CT, PET/CT, and cardiac CT. *Eur J Nucl Med Mol Imaging*. 2021 May;48(5):1399-1413. doi: 10.1007/s00259-021-05341-z. Epub 2021 Apr 17. PMID: 33864509; PMCID: PMC8113178.

44: Argacha JF, Decamp J, Vandelloo B, Babin D, Lochy S, Van den Bussche K, de Hemptinne Q, Xaplanteris P, Magne J, Segers P, Cosyns B. Guiding Myocardial Revascularization by Algorithmic Interpretation of FFR Pullback Curves: A Proof of Concept Study. *Front Cardiovasc Med*. 2021 Mar 11;8:623841. doi: 10.3389/fcvm.2021.623841. PMID: 33778020; PMCID: PMC7990785.

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