



CURRICULUM VITAE

1. IDENTIFICATION

Name: Ricardo Fontes-Carvalho

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2. SHORT BIOGRAPHY

Ricardo Fontes-Carvalho (MD, PhD, FESC, FACC) is currently Director of Cardiology Department at Centro Hospitalar de Gaia/Espinho (a large tertiary Cardiology hospital in northern Portugal) and Full Professor of Cardiovascular Science at Faculty of Medicine University of Porto, Portugal.

In his everyday clinical practice, he is mostly involved in cardiac imaging and clinical cardiology. Over the years he has been involved in both basic and clinical research and in > 50 clinical trials. In 2015 he finished his PhD, studying imaging in subclinical diastolic dysfunction and its progression to heart failure.

For this scientific research he has received 19 national and international awards and has authored > 180 publications in several peer-review journals. His current research interests are echocardiography, radiomics, diastolic dysfunction and HFpEF.

At the European Society Cardiology (ESC), he was the founder of the ESC Cardiologists of Tomorrow and worked for several years in the ESC Education Committee. He was responsible, among other projects, for the creation of the ESC webinars in general Cardiology. He has been nucleus member of several other ESC committees, such as the ESC Global Scientific Affairs Committee.

At the European Association of Cardiovascular Imaging (EACVI) he had several roles such as being member of the Board - Councilor (2020-2022), Chairperson of the EACVI Web and Communications Committee and member of other committees.

In 2018, he concluded a MSc in Health Economics and Management at the London School of Economics (LSE).

At a national level he is currently Director of the Cardiovascular Academy of the Portuguese Society of Cardiology, member of the Board of Colégio Especialidade de Cardiologia da Ordem Médicos and President of the National Cardiology Jury.



During the last years he has been an active contributor in several national and international continuing medical education programs. He has been abstract grader, presenter and session chair in a variety of international cardiovascular meetings such as ESC congress, American College Cardiology (ACC) Scientific Sessions, EuroEcho Imaging, Heart Failure, ESC Preventive Cardiology and several national Cardiology congresses (Italy, Spain, Germany, Canada, France, Russia, Portugal, Sri Lanka, Morocco, Angola, Philippines, Malaysia).

He is currently Associate Editor of JACC Case Reports and member of the Editorial Board of several scientific journals.

He is the current Governor of the American College Cardiology, Portugal Chapter.

From 2015 he is Fellow of the European Society of Cardiology (FESC) and Fellow of the American College Cardiology (FACC)

3. CURRENT POSITIONS

- Director, Cardiology Department Centro Hospitalar de Gaia/Espinho, Portugal (2020-present)
- Cardiologist, Cardiac Imaging Section, Department of Cardiology, Gaia Hospital Center, Gaia, Portugal (2011-present)
- Full Professor, Faculty of Medicine University of Porto (2015-present)
- Senior Investigator in the Cardiovascular Research and Development Unit, Faculty of Medicine University of Porto
- Member of the EACVI Education Committee
- Associate Editor of Journal American College Cardiology (JACC) Case Reports
- Governor of American College Cardiology (ACC), Portugal Chapter
- Director of the Cardiovascular Academy of the Portuguese Society of Cardiology

4. EDUCATION AND QUALIFICATIONS

- Medical degree in Faculty of Medicine University of Porto (2004)
- PhD in Cardiovascular Sciences, from the Faculty of Medicine University of Porto, Portugal

Thesis Title: "Evaluation of Diastolic Function in the Cardiovascular Continuum: from diastolic dysfunction to HFpEF" - Approved with distinction (2015)

- Cardiologist degree in the Cardiology Department, Gaia Hospital Center



- Master in Health Economics, Management and Outcomes at the London School of Economics (LSE) - 2018
- Certificate of Proficiency in English, University of Cambridge

5. ACTIVITIES IN INTERNATIONAL SCIENTIFIC SOCIETIES

EUROPEAN SOCIETY OF CARDIOLOGY

- Founder and Nucleus Member of the **ESC Cardiologists of Tomorrow** (2011-2015): currently ESC Committee Young Cardiovascular Professionals
- Member of the **Education Committee** of the European Society of Cardiology (2011-2016)
- Coordinator of the Task Force for the creation of the **ESC Webinars** (2012-2013)
- **Scientific coordinator** of the ESC Webinars on General Cardiology (2012-2016)
- Member of the Task Force for the Revision of the **ESC Core Curriculum in General Cardiology** 2013
- Member of the Task Force of the **ESC Electronic Platform (ESCeL) in General Cardiology – Version 2** (2014-2015)

EUROPEAN ASSOCIATION CARDIOVASCULAR IMAGING (EACVI)

- Organizer of the **Cardiac Imaging Quiz** in EuroEcho Congress (2016-2019)
- Member of the **EACVI Scientific Activities Committee** (2018-2021)
- Member of the **ESC Global Affairs Committee** (2020-2022)
- **Board member** – Councillor- of the EACVI (2020-2022)
- Chairperson of the **EACVI Web and Communications Committee** (2021-2022)
- Member of the **EACVI Education Committee** (2023-2024)

AMERICAN COLLEGE OF CARDIOLOGY

- **Governor** American College Cardiology (ACC), Portugal Chapter (2023-2025)
- **Associate Editor** do Journal American College Cardiology (JACC) Case Reports (2019-2024)
- Working Group of the Joint JACC/Diversity and Inclusion Committee (2022)



HEART FAILURE ASSOCIATION (HFA)

- Member of the **Heart Imaging Committee of the Heart Failure Association** (2018-2020)

NATIONAL SCIENTIFIC SOCIETIES

- **Director of the Cardiovascular Academy** of the Portuguese Society of Cardiology (2020-2025)
- Member of the **Board of the Cardiology College of the Portuguese Medical Association** (2018-2024)
- Member of the **Board of the Portuguese Society of Cardiology** (2016-2018)
- Scientific Committee of the Portuguese Congress of Cardiology (2016-2018)
- Founder and National Coordinator of the **Cardiologists of Tomorrow** of the Portuguese Society of Cardiology (2009-2011)
- Coordinator of several national educational activities in the field of cardiac imaging and clinical cardiology, targeted to cardiologists and general practitioners

5. SCIENTIFIC ACTIVITY

BASIC RESEARCH (2004-2014):

- Basic research activity using the model of isolated papillary muscle in rats and rabbits to investigate the role of renin-angiotensin axis on cardiac function, pre and postconditioning and diastolic function
- Investigator in the project “Determinants of left ventricle hypertrophy before and after aortic valve replacement: clinical, morphological, genetic and molecular correlations” funded by Fundação para a Ciência e Tecnologia (reference PIC/IC/82943/2007)

CLINICAL RESEARCH:

- Involved in several clinical research projects in the field of diastolic dysfunction, heart failure preserved ejection fraction, diastolic dysfunction and the association between metabolic syndrome and heart function such as:
 - 1) “Heart Failure with Preserved Ejection Fraction: Pathophysiology, Determinants and Prognostic Markers”
 - 2) “The Metabolic Road to Diastolic Heart Failure (MEDIA) – Diastolic Heart Failure Study”, in cooperation with the European Drug Development Hub, Nancy, France; financed by the Seventh Framework Programme of the European Commission



- 3) “METformin in Diastolic Dysfunction of METabolic syndrome (MET-DIME) clinical trial”: investigator initiated clinical trial

CLINICAL TRIALS

- Investigator and Principal Investigator in several clinical trials (>30). Some examples: “PLATElet inhibition and patient Outcomes” (PLATO); “IMPROved Reduction of Outcomes: Vytorin Efficacy International Trial” (IMPROVE-IT), “Rivaroxaban in Combination With Aspirin Alone or With Aspirin and a Thienopyridine in Patients With Acute Coronary Syndromes (The ATLAS ACS TIMI 46 Trial)”, “TaRgeted platelet Inhibition to cLarify the Optimal strateGy to medically manage Acute Coronary Syndromes (TRILOGY-ACS Trial)”; “Prospective Longitudinal Registry of Patients with stable coronary artery disease (CLARIFY registry); “Xarelto for prevention of Stroke in Patients with Atrial fibrillation” (XANTUS); “The efficacy and safety of Trimetazidine in Patients with angina pectoris having been treated by percutaneous Coronary Intervention” (ATPCI); Study of Inclisiran to Prevent Cardiovascular (CV) Events in Participants With Established Cardiovascular Disease (VICTORION-2P) ; OCEANIC-AF: “Multicenter, randomized, active comparator-controlled, doubleblind, double-dummy, parallel group phase III study of the oral FXIa inhibitor BAY 2433334 for the prevention of stroke or systemic embolism in patients with atrial fibrillation”; BMS CV027-031 : A Randomized, Double Blind, Placebo-controlled Clinical Study to Evaluate Mavacamten in Adults with Symptomatic Non-Obstructive Hypertrophic Cardiomyopathy”; ZEUS (EX6018-4758): Effects of ziltivekimab versus placebo on cardiovascular outcomes in participants with established atherosclerotic cardiovascular disease, chronic kidney disease and systemic inflammation

6. PUBLICATIONS, PRIZES AND AWARDS

- Author of **more than >180 articles in international peer-review papers** including European Heart Journal, European Journal Heart Failure, Journal of the American College of Cardiology, JACC Imaging, International Journal of cardiology, Medicine, European Journal Heart Failure, American Journal Cardiology, Diabetes, New England Journal of Medicine and others.

Full list available at: <https://www.ncbi.nlm.nih.gov/pubmed/?term=fontes-carvalho>

- Metrics:

Google scholar h-index: 28

Total citations: 11.486

ORCID ID: 0000-0003-2306-8393

- Received a total of **19 national and international awards** for his scientific activity



7. EDITORIAL AND REVIEWER ACTIVITY

- Associate Editor of JACC Case Reports (2019-2024)
- Associate Editor Cardiology – Section Valvular Heart Disease
- Reviewer of >100 articles in several scientific journals such as JACC Imaging, American Journal Cardiology , Medicine, ESC Heart Failure, European Journal of Preventive Cardiology, Peptides, Heart Asia, Cardiovascular Diabetology, Drug Safety, Archives of Medical Research, Journal International Medical Research, Revista Espanola Cardiologia, Revista Portuguesa de Cardiologia, Acta Medica, Anatolian Journal Cardiology, Diabetology and Metabolic Syndrome, International Journal Cardiovascular Imaging

8. INVITED SPEAKER, MODERATIONS AND PRESENTATIONS

- Hundreds of invited presentations (>300) in several national and international scientific meetings. Some examples include:
 - ESC Congress 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2023
 - American College Cardiology (ACC) Sessions 2022, 2024
 - Heart Failure 2013, 2022
 - EuroEcho Imaging 2014,2015, 2016, 2017, 2018, 2019, 2021
 - EACVI Congress 2023
 - National congresses (Italy, Spain, Germany, Canada, France, Russia, Portugal, Sri Lanka, Morocco, Angola, Philippines, Malaysia)