

Curriculum Vitae

Carlos Manuel Tavares Aguiar



Current Post

- Chair of the Advanced Heart Failure Unit, Co-Chair of the Heart Transplantation Unit, Chair of the Cardio-Oncology Clinic, Chair of the Cardiomyopathy Clinic, and Consultant Cardiologist of the Cardiac Intensive Care Unit
Hospital Santa Cruz, Centro Hospitalar de Lisboa Ocidental, Portugal
- Assistant of the Department of Internal Medicine (2012-)
Nova Medical School, Nova University of Lisbon, Portugal

Training and Education

- Degree in Medicine (MD), Nova Medical School, Nova University of Lisbon, PORTUGAL (1993)
- Medical License Certification by the United States of America's Educational Commission for Foreign Medical Graduates (1999)
- General Internship at Hospitais Cívicos de Lisboa, Lisbon, PORTUGAL (1994-1995)
- Cardiology Fellowship at Hospital Santa Cruz, Carnaxide, PORTUGAL (1996-2001)

Positions of Responsibility in European Society of Cardiology (ESC) Activities

- Member (ex-officio) of the Board (2020-2022 and 2022-2024)
- Councillor of the Board (2014-2016)
- Chair of the Communication Committee (2020-2022 and 2022-)
- Chair of the e-Communications Committee (2014-2016)
- Member of the e-Communications Committee (2016-2018)
- Member of the Declaration of Interest Committee (2018-2020, 2020-2022, and 2022-)
- Member of the EU Presidencies Task Force (2019-2020)
- Member of the Media Committee (2016-2018)
- Member of the Congress Programme Committee (2016-2018)
- Member of the Global Affairs Committee (2014-2016, 2016-2018, 2018-2020, and 2020-2022)
- Member of the Branding Task Force (2015-2017), the Declaration of Interests Thresholds Task Force (2017), and the Compensation Task Force (2017)
- Member of the Executive Committee of the Acute Coronary Syndromes Snapshot Survey
- National co-coordinator for the EUROASPIRE IV and EUROASPIRE V Surveys
- Principal investigator of the Heart Failure Long-Term Registry, Euro Observational Research Program
- Reviewer of the 2011 ESC Guidelines on the Management of Cardiovascular Diseases During Pregnancy, the 2012 Expert Consensus Document on the Third Universal Definition of Myocardial Infarction, and the 2017 ESC Focused Update on Dual Antiplatelet Therapy in Coronary Artery Disease
- Member of Faculty in several ESC Global Scientific Activities

Positions of Responsibility in Other National and International Scientific Activities

PORTUGUESE SOCIETY OF CARDIOLOGY

- Vice-President of the Portuguese Society of Cardiology (2011-2013)
- Secretary of the Portuguese Society of Cardiology (2009-2011)
- President of the 34th Portuguese Congress of Cardiology (2013)
- Chair of the Working Group on Thrombosis and Platelets of the Portuguese Society of Cardiology (2013-2015 and 2015-2017)
- Chair of the Working Group on Acute Cardiac Care of the Portuguese Society of Cardiology (2007-2009)
- Chair of the VIVA Study (Epidemiological Study of the Cardiovascular Risk in Portugal) of the Portuguese Society of Cardiology (2011)
- Chair of the X-Ray AF Study (National Study of the Antithrombotic Treatment for Nonvalvular Atrial Fibrillation) of the Portuguese Society of Cardiology (2015-2017)
- Chair of the Portuguese Registry of Acute Coronary Syndromes (2007-2009)
- Chair of the International Affairs Committee, Portuguese Society of Cardiology (2019-2023)
- Member of the Ethics Committee of the Portuguese Society of Cardiology (2017-2019)
- Member of the Scientific Program Committee of the 25th, 28th, 29th, 32nd, 33rd, 35th and 36th Portuguese Congress of Cardiology
- Member of the Portuguese Task Force for the 'Stent for Life' Initiative

PORTUGUESE SOCIETY OF ATHEROSCLEROSIS

- President of the 30th Portuguese Congress of Atherosclerosis (2022)
- Member of the Scientific Council (2018-)

EUROPEAN UNION OF MEDICAL SPECIALISTS (UEMS)

- Vice-President of the Cardiology Section of the European Union of Medical Specialists (2013-2017)
- Delegate of the Portuguese Society of Cardiology to the UEMS – Cardiology Section (2011-2013)

PORTUGUESE NATIONAL PROGRAM FOR CEREBRO AND CARDIOVASCULAR DISEASES

- Advisor to the National Program for Cerebro and Cardiovascular Diseases of the Portuguese Directorate-General for Health (2005-2011 and 2019-)
- Member of the Task Force of the Portuguese National Guidelines for the Management of Acute Myocardial Infarction and Acute Ischemic Stroke (2007), the Portuguese National Guidelines for Antithrombotic Therapy in Atrial Fibrillation (2009), and the Portuguese National Guidelines for LVAD as Destination Therapy for Heart Failure (2018)

PORTUGUESE HEALTH TECHNOLOGY ASSESSMENT COMMITTEE

- Member of the Portuguese Health Technology Assessment Committee (2016-)

Editorial Boards

- Consulting Editor of the European Heart Journal Digital Health
- Associate Editor of the Portuguese Journal of Cardiology
- Editor of the Portuguese Journal of Cardiology Supplements
- Member of the Editorial Board of the Journal of Cardiovascular Diagnosis and Therapy
- Member of the Editorial Board of the Global Heart Journal

Fellowships / Honours / Awards

- Silver Medal of the European Society of Cardiology awarded in August 2016
- Fellow of the European Society of Cardiology (elected in 2006)
- Recipient of nine scientific awards given by the Portuguese Society of Cardiology, namely the DELTA award for studies on ischaemic heart disease (1999); DELTA award for studies on ischaemic heart disease (2000); AVENTIS award (2000); Medtronic award (2001); DELTA award for studies on ischaemic heart

disease (2002); Astra-Zeneca Foundation award (2005); Best Abstract presented at the Portuguese Congress of Cardiology (2009); Servier award for clinical research in heart failure (2020); Best Image Case presented at the Portuguese Congress of Cardiology (2021)

- Recipient of one scientific award given by the Portuguese Society of Transplantation, namely the Best Scientific Publication in 2021 (awarded in 2022)
- Presidential Award of the Brunei Cardiac Society (2023)
- Nova Medical School Award for the highest average in Medicine (class of 1993)
- Commander of the Order of Merit of the Republic of Portugal (received from H.E. the President of the Portuguese Republic, 22 November 2005)
- Commander of the Order of Honour of the Republic of Greece (received from H.E. the President of the Greek Republic, 14 August 2003)
- Gold Medal of Merit awarded by the City of Albergaria-a-Velha (received on February 2, 2023)

Publications and Lecturing

- **Author of 120 original peer-reviewed articles with total citations 5961 (Google Scholar, h-index 25) and 10879 (Scopus, h-index 27).**

These manuscripts are published in European Heart Journal, Europace, European Heart Journal Cardiovascular Imaging, European Journal of Heart Failure, European Journal of Preventive Cardiology, Acute Cardiac Care, ESC Heart Failure, Lancet Regional Health Europe, Atherosclerosis, Journal of Thoracic and Cardiovascular Surgery, Canadian Journal of Cardiology, Clinical Research in Cardiology, Heart, Drug Safety, Scientific Reports, Journal of Nuclear Cardiology, International Journal of Cardiology, Clinical Cardiology, Journal of Cardiovascular Pharmacology, American Journal of Cardiology, Thrombosis Journal, HIV Medicine, High Blood Pressure and Cardiovascular Prevention, Heart Lung and Circulation, Journal of Human Hypertension, Arquivos Brasileiros de Cardiologia, Cardiovascular Diagnosis and Therapy, Transplantation Direct, Cardiovascular Ultrasound, Heart and Vessels, Portuguese Journal of Cardiology, Atherosclerosis Plus, Journal of Cardiac Surgery, Minerva Cardiology and Angiology, Annals of Noninvasive Electrocardiology, Clinical Nephrology, Polish Journal of Pathology, Journal of European CME, Journal of Health Economics and Outcomes Research, BMJ Case Reports, and JACC Case Reports.

- **Editor of the Textbook** of Cardiac Rehabilitation of the Portuguese Society of Cardiology (2013).
- **Invited lecturer at several national and international meetings of scientific societies, associations or working groups, with 186 lectures delivered covering a range of areas particularly relevant to heart failure, cardiomyopathies, and atherosclerotic cardiovascular disease prevention and treatment.**
These lectures were given at official sessions of the annual congresses of the ESC, the ESC Heart Failure Association, Eurothrombosis, Portuguese Society of Cardiology, Spanish Society of Cardiology, French Society of Cardiology, Hellenic Cardiological Society, Interamerican Society of Cardiology, Brazilian Society of Cardiology, Argentine Society of Cardiology, Mexican Society of Cardiology, Venezuelan Society of Cardiology, South African Heart Association, Brunei Cardiac Society, Portuguese Society of Cardiothoracic and Vascular Surgery, Portuguese Society of Atherosclerosis, Portuguese Society of Stroke, Portuguese Society of Hypertension, Portuguese Society of Pulmonology, and Portuguese Society of Transplantation; and the annual meetings of the Portuguese Society of Cardiology's Working Group on Heart Failure, Working Group on Acute Cardiac Care, Working Group on Cardiac Rehabilitation, Cardiovascular Intervention Association, and Heart Rhythm Association.
- **Selected publications to indicate the range of research interests and clinical practice:**
 - Non-HDL-cholesterol in dyslipidemia: Review of the state-of-the-art literature and outlook. Raja V, Aguiar C, Alsayed N, Chibber YS, ElBadawi H, Ezhov M, Hermans MP, Pandey RC, Ray KK, Tokgözoğlu L, Zambon A, Berrou JP, Farnier M. Atherosclerosis. 2023 Oct;383:117312. doi: 10.1016/j.atherosclerosis.2023.117312. Epub 2023 Sep 30.
 - Effectiveness and Safety of P2Y12 Inhibitor Pretreatment for Primary PCI in STEMI: Systematic Review and Meta-analysis. Presume J, Gomes DA, Ferreira J, Albuquerque F, Almeida M, Uva MS, Aguiar C, Mendes M. J Cardiovasc Pharmacol. 2023 Oct 1;82(4):298-307.

- Diuretic-resistant heart failure and the role of ultrafiltration: A proposed protocol. Gomes da Silva F, Calça R, Rita Martins A, Araújo I, Aguiar C, Fonseca C, Branco P. *Rev Port Cardiol.* 2023 Sep;42(9):797-803.
- Exercise Oscillatory Ventilation Improves Heart Failure Prognostic Scores. Gama F, Rocha B, Aguiar C, Strong C, Freitas P, Brízido C, Tralhão A, Durazzo A, Mendes M. *Heart Lung Circ.* 2023 Aug;32(8):949-957.
- Treatment gaps in the implementation of LDL cholesterol control among high- and very high-risk patients in Europe between 2020 and 2021: the multinational observational SANTORINI study. Ray KK, Haq I, Bilitou A, Manu MC, Burden A, Aguiar C, Arca M, Connolly DL, Eriksson M, Ferrières J, Laufs U, Mostaza JM, Nanchen D, Rietzschel E, Strandberg T, Toplak H, Visseren FLJ, Catapano AL; SANTORINI Study Investigators. *Lancet Reg Health Eur.* 2023 Apr 5;29:100624.
- Beyond exercise oscillatory ventilations: the prognostic impact of loop gain in heart failure. Cunha GJL, Maltês S, Rocha BML, Nina D, Aguiar C, Andrade MJ, Moreno L, Durazzo A, Mendes M, Agostoni P. *Eur J Prev Cardiol.* 2023 Jan 27:zwad021. doi: 10.1093/eurjpc/zwad021. Epub ahead of print.
- Use of sodium glucose co-transporter 2 inhibitors in acute heart failure: a practical guidance. Ferreira JP, Pimenta J, Moura B, Aguiar C, Franco F. *ESC Heart Fail.* 2022 Dec;9(6):4344-4347.
- Pectoralis major muscle quantification by cardiac MRI is a strong predictor of major events in HF. Cunha GJL, Rocha BML, Freitas P, Sousa JA, Paiva M, Santos AC, Guerreiro S, Tralhão A, Ventosa A, Aguiar CM, Andrade MJ, Abecasis J, Saraiva C, Mendes M, Ferreira AM. *Heart Vessels.* 2022 Jun;37(6):976-985.
- Assessing proportionate and disproportionate functional mitral regurgitation with individualized thresholds. Lopes PM, Albuquerque F, Freitas P, Gama F, Horta E, Reis C, Abecasis J, Trabulo M, Ferreira AM, Aguiar C, Canada M, Ribeiras R, Mendes M, Andrade MJ. *Eur Heart J Cardiovasc Imaging.* 2022 Feb 22;23(3):431-440.
- Measuring lung water adds prognostic value in heart failure patients undergoing cardiac magnetic resonance. Rocha BML, Cunha GJL, Freitas P, Lopes PM, Santos AC, Guerreiro S, Tralhão A, Ventosa A, Andrade MJ, Abecasis J, Aguiar C, Saraiva C, Mendes M, Ferreira AM. *Sci Rep.* 2021 Oct 11;11(1):20162.
- Primary prevention efforts are poorly developed in people at high cardiovascular risk: A report from the European Society of Cardiology EURObservational Research Programme EUROASPIRE V survey in 16 European countries. Kotseva K, De Backer G, De Bacquer D, Rydén L, Hoes A, Grobbee D, Maggioni A, Marques-Vidal P, Jennings C, Abreu A, Aguiar C, Badariene J, Bruthans J, Cifkova R, Davletov K, Dilic M, Dolzhenko M, Gaita D, Gotcheva N, Hasan-Ali H, Jankowski P, Lionis C, Mancas S, Miličić D, Mirrakhimov E, Oganov R, Pogosova N, Reiner Ž, Vulić D, Wood D; EUROASPIRE V Investigators. *Eur J Prev Cardiol.* 2021 May 8;28(4):370-379.
- Monteiro S, Timóteo AT, Caeiro D, Silva M, Tralhão A, Guerreiro C, Silva D, Aguiar C, Santos J, Monteiro P, Gil V, Morais J. Cardiac intensive care in Portugal: The time for change. *Rev Port Cardiol.* 2020 Jul;39(7):401-406.
- Haemodynamic effects and potential clinical implications of inhaled nitric oxide during right heart catheterization in heart transplant candidates. Strong C, Raposo L, Castro M, Madeira S, Tralhão A, Ventosa A, Rebocho MJ, Almeida M, Aguiar C, Neves JP, Mendes M. *ESC Heart Fail.* 2020 Apr;7(2):673-681.
- Sacubitril/valsartan eligibility and outcomes in the ESC-EORP-HFA Heart Failure Long-Term Registry: bridging between European Medicines Agency/Food and Drug Administration label, the PARADIGM-HF trial, ESC guidelines, and real world. Kapelios CJ, Lainscak M, Savarese G, Laroche C, Seferovic P, Ruschitzka F, Coats A, Anker SD, Crespo-Leiro MG, Filippatos G, Piepoli MF, Rosano G, Zanolta L, Aguiar C, Murin J, Leszek P, McDonagh T, Maggioni AP, Lund LH; Heart Failure Long-Term Registry Investigators. *Eur J Heart Fail.* 2019 Nov;21(11):1383-1397.
- Comparative Analysis of Four Scores to Stratify Patients With Heart Failure and Reduced Ejection Fraction. Freitas P, Aguiar C, Ferreira A, Tralhão A, Ventosa A, Mendes M. *Am J Cardiol.* 2017 Aug 1;120(3):443-449.
- Impact of ESC/ACCF/AHA/WHF universal definition of myocardial infarction on mortality at 10 years. Costa FM, Ferreira J, Aguiar C, Dores H, Figueira J, Mendes M. *Eur Heart J.* 2012 Oct;33(20):2544-50.
- Mitral annular disjunction in myxomatous mitral valve disease: a relevant abnormality recognizable by transthoracic echocardiography. Carmo P, Andrade MJ, Aguiar C, Rodrigues R, Gouveia R, Silva JA. *Cardiovasc Ultrasound.* 2010 Dec 9;8:53.