



Giandomenico Bisaccia, MD, PhD

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Experience

G. d'Annunzio University of Chieti and Pescara, Chieti, Italy May 2024-present

- Resident in Cardiology November 2024-present
 - Attending the local residency program covering all major areas of cardiology
- Research Fellow in Cardiology May 2024–October 2024
 - Supervised clinical research with focus on clinical applications of cardiovascular magnetic resonance imaging (CMR)
 - Coordinated of undergraduate and postgraduate students

Royal Brompton Hospital, London, UK May 2023—present

- Honorary Clinical Research Fellow (part-time)
 - Supervising clinical research on clinical applications of CMR, including quantitative stress perfusion CMR, ischaemic and nonischaemic cardiomyopathies, and guidance to myocardial revascularization

Harefield Hospital, London, UK Sept 2022—May 2023

- Honorary Clinical Research Fellowship (full time)
 - Prepared initial reports for 300+ clinical CMR scans
 - Conducted an audit on stress CMR after heart transplantation
 - Researched on CMR in patients with angina, cardiomyopathies, and after heart transplantation
 - Improved team productivity with data science and coding skills

Education

London School of Economics, London, UK Dec 2023—Dec 2025

- MSc in Health Economics, Outcomes and Management in Clinical Sciences (class of 2025)
 - Taught modules included Economic Analysis for Health Policy (distinction), Quality and Outcomes in Clinical Sciences (distinction), Economic Evaluation in Health Care, and Fundamentals of Management and Leadership (under assessment)
 - Volunteered as the class Clinical Student Representative for 2023/24

G. d'Annunzio University of Chieti and Pescara, Chieti, Italy

- PhD (*Doctor Europaeus*) in Neuroscience and Imaging (marked: excellent) Oct 2021—Mar 2024
 - Thesis title: *Value of Quantitative Stress Perfusion CMR in the Long-Term Assessment of Cardiac Transplantation Recipients*
 - Supervised by Prof. S. Gallina and F. Ricci (University of Chieti, Italy) and Prof. C. Bucciarelli-Ducci (Royal Brompton and Harefield Hospitals and Imperial College London, UK)
 - External assessment by Prof. A. Almeida (University of Lisbon, Portugal) and Prof. J. Garot (Institut Cardiovasculaire Paris Sud, France),
 - Examination by Prof. R. Manka (University Hospital Zurich, Switzerland)
 - Co-authored 17 peer-reviewed publications
 - Supervised 12 undergraduate and 4 postgraduate students
 - Presented research findings for 7 original research studies at major international conferences
- Master's Degree in Medicine (summa cum laude) Oct 2014—Apr 2021
 - Thesis title: *CMR Reference Values of Mitral and Tricuspid Annular Dimensions: the UK BioBank Cohort*
 - MD-PhD research track Nov 2019–Ott 2020
 - Path of Excellence research track Ott 2016—Ott 2019

Teaching

G. d'Annunzio University of Chieti and Pescara, Chieti, Italy

- Honorary teaching assistant in clinical applications of CMR, Undergraduate radiographer course May 2024

University of Padua, Italy

- Lecturer, Master in Cardiovascular Magnetic Resonance (course convenor: Prof. M. Perazzolo Marra)
 - “Principal investigation protocols in CMR” 2025
 - “CMR safety” 2024-2025

Professional licenses

- Undergoing the EACVI CMR Level 3 certification pathway (passed the written component) November 2024
- Good Clinical Practice certification. *National Institute for Health and Care Research*, London, UK Oct 2022
- UK General Medical Council, reference number 8023039 Feb 2023
- “Ordine dei Medici-Chirurghi ed Odontoiatri”, Chieti, Italy, medical license number 5690 May 2021

Professional and language skills

- Clinical research
 - systematic review and meta-analysis (5 published), diagnostic studies (accuracy, clinical utility), prognostic studies (survival analysis and modeling)
 - cost-effectiveness analysis and health technology assessment
- Data science and IT
 - Strong data science skills with specific expertise in R, Quarto, Shiny, Git, creation and maintenance of REDCap projects
 - I publish code on [Github](#)
- English language
 - International English Language Testing System (IELTS) Nov 2023
 - * Academic english. Listening 9.0; Reading 9.0; Speaking 8.5; Writing 7.5 (scored 1 to 10)
 - Occupational English Test (OET) Feb 2023
 - * Medical english. Listening A; Reading A; Speaking B; Writing B (scored E to A)

Editorial activity

- Editor, SCMR Journal Watch (monthly newsletter «SCMR NewsBeat») 2024-present

Peer Reviews

CONFERENCES

- Moderator, SCMR 2025, Washington, USA
- Abstract reviewer, ACC.25, Chicago, USA

JOURNALS

Peer review activity for the following journals in the last 5 years: European Heart Journal, Open Heart, Journal of Clinical Medicine, Frontiers in Public Health, Medicina, Children

Scientific publications

I have authored 20 Scopus-indexed scientific publications, where I contributed to literature review, statistical analyses, manuscript drafting, and/or preparation of tables, visual illustrations, and figures. My publications may also be accessed on [NCBI](#).

ORIGINAL RESEARCH

Safety and feasibility of adenosine stress cardiac MRI in heart transplant recipients (2024). G. Bisaccia, R. Licordari, I. Leo, G. La Vecchia, M. Perotto, M. C. Procopio, N. Miaris, F. Ricci, S. Gallina, J. Wong, P. Kellman and C. Bucciarelli-Ducci. *European Heart Journal - Cardiovascular Imaging*.

Atrial electro-functional predictors of incident atrial fibrillation in cardiac amyloidosis (2024). G. Sinigiani, L. De Michieli, A. Porcari, C. Zocchi, A. Sorella, C. Mazzoni, G. Bisaccia, A. De Luca, G. Di Bella, D. Gregori, F. Perfetto, M. Merlo, G. Sinagra, S. Iliceto, M. Perazzolo Marra, D. Corrado, F. Ricci, F. Cappelli and A. Cipriani. *Heart Rhythm*.

Guillain–Barré syndrome and COVID-19 vaccination: a systematic review and meta-analysis (2024). S. Censi, G. Bisaccia, S. Gallina, V. Tomassini and A. Uncini. *Journal of Neurology*.

Cardiovascular Magnetic Resonance in Patients with Cardiac Electronic Devices: Evidence from a Multicenter Study (2023). A. Barison, F. Ricci, A. G. Pavon, G. Muscogiuri, G. Bisaccia, G. Camastra, M. De Lazzari, C. Lanzillo, M. Raguso, L. Monti, S. Vargiu, P. Pedrotti, M. Piacenti, G. Todiere, G. Pontone, C. Indolfi, S. Dellegrottaglie, M. Lombardi, J. Schwitter, G. D. Aquaro, *Heart*.

Diagnostic and Prognostic Value of Stress Cardiovascular Magnetic Resonance Imaging in Patients With Known or Suspected Coronary Artery Disease: A Systematic Review and Meta-analysis (2023). F. Ricci, M. Y. Khanji, G. Bisaccia, A. Cipriani, A. Di Cesare, L. Ceriello, C. Mantini, M. Zimarino, A. Fedorowski, S. Gallina, S. E. Petersen and C. Bucciarelli-Ducci. *JAMA Cardiology*.

Prognostic Significance of Late Gadolinium Enhancement in Fabry Disease-A Systematic Review and Meta-Analysis (2023). F. Ricci, G. Bisaccia, D. Mansour, L. V. Molinari, M. Di Mauro, G. Renda, M. Y. Khanji and S. Gallina. *The American Journal of Cardiology*.

CMR Reclassifies the Majority of Patients with Suspected MINOCA and non MINOCA (2023). K. Liang, G. Bisaccia, I. Leo, M. G. L. Williams, A. Dastidar, J. W. Strange, E. Sammut, T. W. Johnson and C. Bucciarelli-Ducci. *European Heart Journal - Cardiovascular Imaging*.

Guillain-Barre syndrome and SARS-CoV-2 infection: a systematic review and meta-analysis on a debated issue and evidence for the ‘Italian factor’ (2023). S. Censi, G. Bisaccia, S. Gallina, V. Tomassini and A. Uncini. *European Journal of Neurology*.

Cardiovascular Morbidity and Mortality Related to Non-alcoholic Fatty Liver Disease: A Systematic Review and Meta-analysis (2023). G. Bisaccia, F. Ricci, M. Y. Khanji, A. Sorella, E. Melchiorre, G. Iannetti, K. Galanti, C. Mantini, A. D. Pizzi, C. Tana, G. Renda, A. Fedorowski, R. De Caterina and S. Gallina. *Current Problems in Cardiology*.

Cardiovascular magnetic resonance reference values of mitral and tricuspid annular dimensions: the UK Biobank cohort (2021). F. Ricci, N. Aung, S. Gallina, F. Zemrak, K. Fung, G. Bisaccia, J. M. Paiva, M. Y. Khanji, C. Mantini and S. Palermi. *Journal of Cardiovascular Magnetic Resonance*.

REVIEWS

Cardiac Magnetic Resonance Imaging: A Utility in Heart Failure (2024). G. Bisaccia and C. Bucciarelli-Ducci. *Heart Failure Journal of India*.

Prevention of cardiotoxicity in childhood cancer survivors: in physical exercise, we trust (2024). V. Bucciarelli, F. Bianco, G. Bisaccia, K. Galanti, A. Arata, M. Ricci, B. Bucciarelli, M. Marinelli, G. Renda, A. Farinetti, A. V. Mattioli and S. Gallina. *Current Problems in Cardiology*.

Moderate aortic stenosis: Navigating the uncharted (2024). M. V. Caprio, F. De Donno, G. Bisaccia, C. Mantini, A. Di Baldassarre, S. Gallina, M. Y. Khanji and F. Ricci. *Echocardiography*.

Underlying mechanisms and cardioprotective effects of SGLT2i and GLP-1Ra: insights from cardiovascular magnetic resonance (2024). A. Cersosimo, N. Salerno, J. Sabatino, A. Scatteia, **G. Bisaccia**, S. De Rosa, S. Dellegrottaglie, C. Bucciarelli-Ducci, D. Torella and I. Leo. *Cardiovascular Diabetology*.

The Role of Multimodality Imaging in Pediatric Cardiomyopathies (2023). S. Moscatelli, I. Leo, F. Bianco, N. Borrelli, M. Beltrami, M. Garofalo, E. G. Milano, **G. Bisaccia**, F. Iellamo, P. P. Bassareo, A. Pradhan, A. Cimini and M. A. Perrone. *Journal of Clinical Medicine*.

The Role of Advanced Cardiovascular Imaging Modalities in Cardio-Oncology: From Early Detection to Unravelling Mechanisms of Cardiotoxicity (2023). I. Leo, M. Vidula, **G. Bisaccia**, M. C. Procopio, R. Licordari, M. Perotto, G. La Vecchia, N. Miaris, P. E. Bravo and C. Bucciarelli-Ducci. *Journal of Clinical Medicine*.

Imaging patients with myocardial infarction with non-obstructive coronary arteries (MINOCA) (2023). I. Leo, **G. Bisaccia**, N. Miaris, M. C. Procopio, R. Licordari and C. Bucciarelli-Ducci. *Heart*.

Prognostic Value of High-Sensitivity Cardiac Troponin in Women (2022). **G. Bisaccia**, F. Ricci, M. Y. Khanji, G. Gaggi, A. Di Credico, S. Gallina, A. Di Baldassarre and B. Ghinassi. *Biomolecules*.

Post-Acute Sequelae of COVID-19 and Cardiovascular Autonomic Dysfunction: What Do We Know? (2021). **G. Bisaccia**, F. Ricci, V. Recce, A. Serio, G. Iannetti, A. A. Chahal, M. Stahlberg, M. Y. Khanji, A. Fedorowski and S. Gallina. *Journal of Cardiovascular Development and Disease*.

Mitochondrial Dysfunction and Heart Disease: Critical Appraisal of an Overlooked Association (2021). **G. Bisaccia**, F. Ricci, S. Gallina, A. Di Baldassarre and B. Ghinassi. *International Journal of Molecular Sciences*.

Nonalcoholic fatty liver disease and cardiovascular disease phenotypes (2020). **G. Bisaccia**, F. Ricci, C. Mantini, C. Tana, G. L. Romani, C. Schiavone and S. Gallina. *SAGE Open Medicine*.

Conference presentations

EUROPEAN SOCIETY OF CARDIOLOGY

Non-invasive imaging to guide percutaneous coronary revascularization in chronic total occlusion: a systematic review and meta-analysis. **G. Bisaccia**, J. Greenwood, C. Berry, GP. Mccann, J. Wong, F. Ricci, S. Gallina, L. Liu, Y. Wang, J. Hill, N. Curzen, C. Bucciarelli-Ducci. Presented at ESC Congress, London, UK (August 2024)

Prognostic yield of stress CMR to evaluate chronic coronary syndromes: a systematic review and meta-analysis. **G. Bisaccia**, M. Khanji, S. Gallina, S. Petersen, C. Bucciarelli-Ducci and F. Ricci. Presented at ESC Congress, Barcelona, Spain (August 2022)

Diagnostic accuracy of stress CMR to evaluate chronic coronary syndromes: an updated meta-analysis. **G. Bisaccia**, M. Khanji, S. Gallina, S. Petersen, C. Bucciarelli-Ducci and F. Ricci. Presented at ESC Congress, Barcelona, Spain (August 2022)

Cardiovascular morbidity and mortality related to non-alcoholic fatty liver disease: a systematic review and meta-analysis of prospective studies. **G. Bisaccia**, F. Ricci, E. Melchiorre, C. Tana, G. Renda, M. Khanji, A. Fedorowski, R. De Caterina and S. Gallina. Presented at ESC Congress (The Digital Experience) (August 2021)

AMERICAN HEART ASSOCIATION

Comparative and Incremental Diagnostic and Prognostic Yield of Exercise ECG, CMR and SPECT in Patients With Suspected Ischaemic Heart Disease: A CE-MARC Sub-Study. **G. Bisaccia**, P. P. Swoboda, C. Bucciarelli-Ducci, S. Plein and J. Greenwood. Presented at AHA Scientific Sessions, Philadelphia, USA (Nov 2023)

SOCIETY FOR CARDIOVASCULAR MAGNETIC RESONANCE

Prognostic Value of Myocardial Blood Flow Index Among Heart Transplant Recipients. **G. Bisaccia**, R. Licordari, I. Leo, G. La Vecchia, M. Perotto, M. C. Procopio, F. Ricci, S. Gallina, J. Wong and C. Bucciarelli-Ducci. Presented at CMR 2024, London, UK (Jan 2024).

Safety and Feasibility of Adenosine Stress CMR for CAV Detection in Orthotopic Heart Transplant Recipients. **G. Bisaccia**, R. Licordari, I. Leo, G. La Vecchia, M. Perotto, M. C. Procopio, F. Ricci, S. Gallina, J. Wong and C. Bucciarelli-Ducci. Presented at CMR 2024 London, UK (Jan 2024).

Diagnostic and Prognostic Value of Stress CMR Imaging to Evaluate Stable Chest Pain: A Twenty-Year Meta-Analysis. **G. Bisaccia**, F. Ricci, M. Y. Khanji, S. Gallina, S. E. Petersen, C. Bucciarelli-Ducci. Presented at SCMR 2023 San Diego, US (Jan 2023).

EUROPEAN ASSOCIATION OF CARDIOVASCULAR IMAGING

CMR reclassifies patients with suspected myocardial infarction with non-obstructive coronary arteries (MINOCA). **G. Bisaccia**, K. Liang, M. G. L. Williams, I. Leo, A. Dastidar, E. Sammut, T. Johnson and C. Bucciarelli-Ducci. Presented at EACVI, Barcelona, Spain (May 2023)

Grants

- BCS-Heart Research UK Clinical Fellowship Scheme (£16,000) December 2024
 - Co-applicant for Harefield Hospital to undertake a weekly site visit to the CMR Unit at Brigham and Womens' Hospital and Harvard Medical School, Boston, Massachusetts, USA, with the aim to familiarise with AI-powered, automated, accelerated cardiac MRI acquisition software
- Italian Ministry of Public Education (€ 299,604) July 2023
 - Participant to research unit in the ULTRALIGHT-HCM study, designed to perform deep cardiovascular phenotyping on athletes with left ventricular hypertrophy undergoing cardiac MRI and advanced genetic testing to identify features predictive of hypertrophic cardiomyopathy

Prizes and awards

- Finalist, Early career award (clinical track), CMR 2024, London, UK January 2024
- Winner, Early Career Investigator Travel Grant, AHA Scientific Sessions, Philadelphia, USA November 2023
- Winner, Educational Grant, EACVI Conference, Barcelona, Spain May 2023
- Winner, Travel Grant, SCMR Conference, San Diego, USA January 2023
- Awardee, «Path of Excellence» in Medicine, University of Chieti and Pescara, Italy October 2019

Participation in certified courses, workshops, and hackathons

- Introduction to R for Economic Evaluation (beta-tester, online), Dark Peak Analytics November-December 2024
- Stress CMR: A Hands-On Workshop, SCMR, ACC Heart House, Washington D.C., USA 4-5 October 2024
- HFA Clinical Trials in Heart Failure Course, Naples, Italy 20-22 September 2024
- R in HTA Hackathon, Queen's University Belfast, UK 5-6 August 2024
- R for trial and model-based cost-effectiveness analysis workshop, ScHARR, University of Sheffield, UK 28 June 2024
- Productive R Workflow course, online certification April 2024
- Clinical CMR Course (3 months, full-time), Royal Brompton Hospital, London, UK October-December 2022