



# Giandomenico Bisaccia, MD, PhD

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## Experience

*G. D'ANNUNZIO UNIVERSITY OF CHIETI AND PESCARA, CHIETI, ITALY*

### Resident in Cardiology

Nov 2024–present

- Attending the local 4-year Residency Program

### Research Fellow in Cardiology

May 2024–Oct 2024

- Supervised clinical research with focus on clinical applications of cardiovascular magnetic resonance imaging (CMR), with coordination of postgraduate and undergraduate students

*ROYAL BROMPTON AND HAREFIELD HOSPITALS, LONDON, UK*

### Honorary Senior Research Fellow (part-time)

May 2023—present

- Coordinating a team of 6 CMR fellows at RBH and Harefield sites
- Areas of research include quantitative stress perfusion CMR, ischaemic and nonischaemic cardiomyopathies, acute and chronic coronary syndromes, and heart transplantation

### Honorary Clinical Research Fellow (full time)

Sept 2022—May 2023

- Prepared initial reports for 300+ clinical CMR scans (EACVI CMR Level 3 track)
- 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 & POLITICAL SCIENCE, LONDON, UK*

### MSc in Health Economics, Outcomes and Management in Clinical Sciences

Dec 2023—Dec 2025

- Modules covered economic analysis for health policy, assessing quality and outcomes in clinical sciences, economic evaluations in health care, using health economics to inform policy and practice.
- Class Clinical Student Representative for 2023/24 and 2024/25

*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*
- Co-authored 17 peer-reviewed publications
- Co-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
- Path of Excellence research track

Nov 2019–Ott 2020

Ott 2016—Ott 2019

## Grants

- REFINE-StressCMR, Royal Brompton Hospital Charity (co-applicant, £39,606) February 2025
  - To develop and validate a standardized framework for the interpretation and reporting of qualitative and quantitative stress CMR findings
- British Cardiovascular Society-Heart Research UK Clinical Fellowship Scheme (co-applicant, £16,000) December 2024
  - For a team from Harefield Hospital to undertake a weekly site visit to the CMR Unit at Brigham and Womens' Hospital and Harvard Medical School, Boston, Massachussets, USA, with the aim to familiarise with AI-powered, automated, accelerated cardiac MRI acquisition software
- ULTRALIGHT-HCM, Italian Ministry of Public Education (co-applicant, € 299,604) July 2023
  - To perform deep cardiovascular phenotyping on athletes with left ventricular hypertrophy, using cardiac MRI and advanced genetic testing to identify features predictive of hypertrophic cardiomyopathy

## Prizes and awards

- Finalist, *Young Investigator Award*, BSCMR 20th Annual Meeting, London, UK April 2025
- 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 Congress, Barcelona, Spain May 2023
- Winner, *Travel Grant*, SCMR Scientific Sessions, San Diego, USA January 2023
- Awardee, «*Path of Excellence*» in Medicine, University of Chieti and Pescara, Italy October 2019

## Leadership and appointments

### EUROPEAN SOCIETY OF CARDIOLOGY (ESC)

- Alumni Task Force Member, European Heart Academy 2025-2026

### SOCIETY FOR CARDIOVASCULAR MAGNETIC RESONANCE (SCMR)

- Editor, Journal Watch column (monthly newsletter «SCMR NewsBeat») 2024-present
- Member, Science Committee 2025-2026
- Member, Education & COI Mitigation Committee 2025-2026
- Oral Abstract Moderator, SCMR 2025, Washington, USA January 2025

### EUROPEAN ASSOCIATION OF CARDIOVASCULAR IMAGING (EACVI)

- Member, Web & Communication Committee 2025-2026

### ITALIAN SOCIETY OF CARDIOLOGY (SIC)

- Member, CMR Working Group 2025-present

### OTHER APPOINTMENTS

- Abstract reviewer, ACC.25, Chicago, USA November 2024
- Continued scientific peer review activity, including for the following journals since 2020: *European Heart Journal*, *The International Journal of Cardiovascular Imaging*, *Open Heart*.

## 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

## Teaching and consultancy

*LONDON SCHOOL OF ECONOMICS & POLITICAL SCIENCE, LONDON, UK*

### Consultant, LSE Health

2025-present

- Economic evaluation of cardiovascular disease interventions

*UNIVERSITY OF PADUA, ITALY*

### Lecturer, MSc in Cardiovascular Magnetic Resonance

2025-present

- “Principal investigation protocols in CMR”
- “CMR safety”

2025

2024-2025

*G. D’ANNUNZIO UNIVERSITY OF CHIETI AND PESCARA, CHIETI, ITALY*

### Lecturer, MSc in Cardiovascular Magnetic Resonance

2025-present

- Undergraduate radiographer course

2024-2025

## 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, REDCap

## Certified courses, workshops, and hackathons

- *Introduction to R for Economic Evaluation*, Dark Peak Analytics, online 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*, 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*, online certification April 2024
- *Clinical CMR* (3 month course, full-time), Royal Brompton Hospital, London, UK October-December 2022

## Affiliations

- Italian Association of Hospital Cardiologists (ANMCO) 2025-present
- British Cardiovascular Society 2024-present
- British Society of Cardiovascular Magnetic Resonance 2024-present
- American Heart Association 2023-present
- American College of Cardiology 2022-present
- Society for Cardiovascular Magnetic Resonance 2022-present
- European Society of Cardiology 2021-present
- European Association of Cardiovascular Imaging 2021-present
- Italian Society of Cardiology 2021-present

## Scientific publications

I have authored 21 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*.

#### CASE REPORTS

**Two Hearts Beating in One Chest** I. Leo, **G. Bisaccia**, J. Wong, F. Riesgo-Gil, P. Kellman and C. Bucciarelli-Ducci. *Circulation: Cardiovascular Imaging*.

## Conference presentations

### EUROPEAN SOCIETY OF CARDIOLOGY

*Non-invasive imaging to guide percutaneous coronary revascularization in chronic total occlusion: a systematic review and meta-analysis.* Presenting author: **G. Bisaccia**. ESC Congress, London, UK (August 2024)

*Prognostic yield of stress CMR to evaluate chronic coronary syndromes: a systematic review and meta-analysis.* Presenting author: **G. Bisaccia**. ESC Congress, Barcelona, Spain (August 2022)

*Diagnostic accuracy of stress CMR to evaluate chronic coronary syndromes: an updated meta-analysis.* Presenting author: **G. Bisaccia**. 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.* Presenting author: **G. Bisaccia**. 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.* Presenting author: **G. Bisaccia**. AHA Scientific Sessions, Philadelphia, USA (Nov 2023)

### EUROPEAN ASSOCIATION OF CARDIOVASCULAR IMAGING

*CMR reclassifies patients with suspected myocardial infarction with non-obstructive coronary arteries (MINOCA).* Presenting author: **G. Bisaccia**. EACVI, Barcelona, Spain (May 2023)

### SOCIETY FOR CARDIOVASCULAR MAGNETIC RESONANCE

*Impact of Age and Sex on Myocardial Involvement in hospitalized COVID-19 patients: A Pre-specified Subanalysis of COVID-HEART.* Presenting author: **G. Bisaccia**. SCMR Scientific Sessions 2025 in Washington, US (Jan 2025).

*Early Career Award finalist - CMR as the First Line Test Compared to Exercise ECG and SPECT in Patients with Stable Chest Pain: Insights from CE-MARC.* Presenting author: **G. Bisaccia**. CMR 2024, London, UK (Jan 2024).

*Prognostic Value of Myocardial Blood Flow Index Among Heart Transplant Recipients.* Presenting author: **G. Bisaccia**. CMR 2024, London, UK (Jan 2024).

*Safety and Feasibility of Adenosine Stress CMR for CAV Detection in Orthotopic Heart Transplant Recipients.* Presenting author: **G. Bisaccia**. CMR 2024 London, UK (Jan 2024).

*Diagnostic and Prognostic Value of Stress CMR Imaging to Evaluate Stable Chest Pain: A Twenty-Year Meta-Analysis.* Presenting author: **G. Bisaccia**. SCMR 2023 San Diego, US (Jan 2023).

### BRITISH SOCIETY OF CARDIOVASCULAR MAGNETIC RESONANCE

*Young Investigator Award finalist - How late is too late? Influence of scan timing on CMR's diagnostic yield in suspected MINOCA.* Presenting author: **G. Bisaccia**. BSCMR Annual Conference 2025, London, UK (Mar 2025).