



# Giandomenico Bisaccia, MD, PhD

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## Experience

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

May 2024-present

- Research fellow in cardiology
  - Supervised clinical research with focus on clinical applications of cardiovascular magnetic resonance imaging (CMR)
  - Coordination of undergraduate and postgraduate students

*Royal Brompton Hospital, London, UK*

May 2023—present

- Honorary clinical research fellowship (part-time)
  - Supervised clinical research on quantitative stress perfusion CMR, ischaemic and nonischaemic cardiomyopathies, CMR guidance to percutaneous 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 (Italy) and Prof. C. Bucciarelli-Ducci (UK), external assessment by Prof. A. Almeida (Portugal) and Prof. J. Garot (France), external examination by Prof. R. Manka (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 on CMR safety, MSc in Cardiac magnetic resonance imaging Jan 2024

## Professional licenses

- 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 modelling and data visualization skills in R
  - Dynamic, reproducible reporting in Quarto
  - Development and deployment of server-based Shiny applications
  - Experienced Git and Github user
  - Experienced REDCap user
  - Proficient in Microsoft Word, Excel, Powerpoint
- 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)

## Grants, prizes and awards

- Finalist, Early career award (clinical track), CMR 2024, London, UK January 2024
- Participant to research unit, ULTRALIGHT-HCM study, Italian Ministry of Public Education (€ 299,604) July 2023
- Early Career Investigator Travel Grant, AHA Scientific Sessions, Philadelphia, USA November 2023
- Educational Grant, EACVI Conference, Barcelona, Spain May 2023
- Travel Grant, SCMR Conference, San Diego, USA January 2023
- «Path of Excellence» award in Medicine, University of Chieti and Pescara, Italy October 2019

## Certifications, affiliations, and publications

For a list of my certifications, professional affiliations, conference presentations and scientific publications, please refer to my CV supplement.

## Participation in certified courses, workshops, and hackathons

- 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

## Professional affiliations

- Member of the
  - American Heart Association 2023-present
  - American College of Cardiology (Fellow in Training) 2022-present
  - Society for Cardiovascular Magnetic Resonance (Early Career working group) 2022-present
  - European Society of Cardiology (Professional member) 2021-present
  - European Association of Cardiovascular Imaging 2021-present
  - Italian Society of Cardiology (CMR, Sex differences working groups) 2021-present
- Other affiliations
  - NHS-R Community 2024-present
  - IMSOGB - Italian Medical Society of Great Britain 2024-present

## Peer Reviews

I did peer reviews for the following journals in the last 5 years:

- European Heart Journal
- Open Heart
- Journal of Clinical Medicine
- Frontiers in Public Health
- Children

## Scientific publications

I have authored 21 scientific publications, where I contributed to literature review, statistical analyses, manuscript drafting, and/or preparation of 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. Miari, 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 Micheli, 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)