

Giandomenico Bisaccia, MD, PhD



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Experience

Harefield Hospital, London, UK

Sept 2022—Feb 2024

- Clinical research fellowship in CMR
 - Prepared the initial report for 250+ clinical CMR scans
 - Studied the clinical value of cardiovascular magnetic resonance in patients with chest pain, cardiomyopathies, and long term after cardiac transplantation
 - Improved research productivity among peers in various research groups

Education

London School of Economics, London, UK

Dec 2023—Dec 2025

- MSc in Health Economics, Outcomes and Management in Clinical Sciences (class of 2025)
 - Modules included Economic Analysis for Health Policy (distinction), Quality and Outcomes in Clinical Sciences (distinction)
 - Volunteered as the class Clinical Student Representative for 2023/24

Royal Brompton Hospital, London, UK

Oct—Dec 2022

- Clinical CMR training course
 - Underwent full-time training in cardiac MR under CMR Level 3 certified experts
 - Contributed to the CMR service of the hospital

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

- PhD in Neuroscience and Imaging (MED/11, Doctor Europaeus) Oct 2021—Mar 2024

Thesis title: *Value of Quantitative Stress Perfusion CMR in the Long-Term Assessment of Cardiac Transplantation Recipients*

Supervisors: Prof. Sabina Gallina, Prof. Chiara Bucciarelli-Ducci, and Prof. Fabrizio Ricci

- Established an international collaboration between the University of Chieti, Italy and Harefield Hospital, London, UK
- 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 for cardiology (ESC, AHA) and cardiovascular imaging (EACVI, SCMR)
- Was a finalist in the CMR 2024 Early Career Award, clinical track (2024)

- Master's Degree in Medicine (summa cum laude, equivalent to MD) Oct 2014—Apr 2021

Thesis title: *CMR Reference Values of Mitral and Tricuspid Annular Dimensions: the UK BioBank Cohort*

Supervisors: Prof. Sabina Gallina, Prof. Fabrizio Ricci

- Completed the «Path of Excellence» on electrophysiology between 2016 and 2019, with focus on surface electromyography (Supervisor: Prof. Gian Luca Romani)
 - * First student to be enrolled in the local MD-PhD track

Teaching

University of Padua, Italy

Jan 2024

- Lecture on CMR safety, MSc in Cardiac magnetic resonance imaging

Professional licenses

Good Clinical Practice certification. <i>National Institute for Health and Care Research</i> , London, UK	Oct 2022
Basic Life Support Provider, American Heart Association. “ <i>Dinamica</i> ” <i>Training Center</i> , Rome, Italy	Jun 2021
• Medical licenses	
– UK: General Medical Council, reference number 8023039	Feb 2023
– Italy: “Ordine dei Medici-Chirurghi ed Odontoiatri”, Chieti, reference number 5690	May 2021

Professional skills

- Clinical research
 - systematic review and meta-analysis (5 published)
 - diagnostic studies (accuracy, clinical utility)
 - prognostic studies (data scraping, survival analysis)
- Data science
 - Strong data modelling skills, R
 - Data visualizations
 - Dynamic, reproducible reporting in Quarto
 - Development and deployment of server-based Shiny applications
- IT
 - Proficient in Word, Excel, Powerpoint
 - Creation and maintainance of RedCAP projects and Git repositories
 - Basic Adobe Illustrator
 - Prior experience in MATLAB
 - Basic LaTeX

Language certifications

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| • 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) | |

Professional affiliations

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| • Membership to scientific societies | |
| – 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 |
| • Participation to working groups | |
| – SCMR Early career | 2022—present |
| – ACC Fellow in training | 2022—present |
| – Italian Society of Cardiology | |
| * Cardiovascular magnetic resonance imaging applications | |
| * Sex differences in cardiovascular disease | |

Grants, prizes and awards

- Finalist, Early career award (clinical track), CMR 2024, London, UK Jan 2024
- 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 Jan 2023

Publications

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*.

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*.

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*.

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*.

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*.

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*.

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*.

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*.

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*.

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*.

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*.

Main presentations at conferences

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 (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 (Jan 2024).

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)

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)

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)

References

Available upon request.