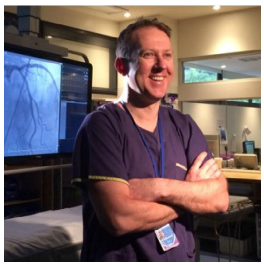
A/Prof Justin Mariani
Central Clinical School, Alfred Hospital Heart Centre
Email: j.mariani@alfred.org.au



Employment

Mon Alf Baker Centre for Cardio Research
MONASH UNIVERSITY
1 Sept 2023 → present

ADJUNCT ASSOCIATE PROFESSOR
School of Translational Medicine
MONASH UNIVERSITY
16 Mar 2017 → present

Alfred Hospital
Melbourne, Australia

Research outputs - last 3 years

1. **Withdrawal of heart failure therapy after atrial fibrillation rhythm control with ejection fraction normalization: the WITHDRAW-AF trial**
   Segan, L., Kistler, P. M., Nanayakkara, S., Taylor, A., Hare, J., Costello, B., Chieng, D., Crowley, R., William, J., Sugumar, H., Cho, K., Voskoboinik, A., Ling, L.-H., Nderitu, Z., Azzopardi, S., Curtin, A., Premaratne, M., McLellan, A. J., Mariani, J. & Morton, J. B. & 6 others, Lee, G., Joseph, S., Reid, C., Kaye, D. M., Kalman, J. M. & Prabhu, S., 7 Jan 2026, In: European Heart Journal. 47, 2, p. 250-262 13 p.
2. **Catheter ablation vs rate control in atrial fibrillation with left ventricular systolic dysfunction and fibrosis: the CAMERA-MRI II trial**
   Segan, L., Kistler, P. M., Nanayakkara, S., Taylor, A., Kaye, D. M., Hare, J. L., Costello, B., Patel, H., Chieng, D., Crowley, R., William, J., Sugumar, H., Cho, K., Voskoboinik, A., Ling, L. H., Nderitu, Z., Azzopardi, S., Curtin, A., Ahluwalia, N. & Finlay, M. & 16 others, Schilling, R., Win, K. Z., Kalla, M., Mariani, J., Kumar, S., Premaratne, M., Parameswaran, R., Amerena, J., Morton, J. B., McLellan, A. J., Lee, G., Theuerle, J., Joseph, S., Wong, M., Kalman, J. M. & Prabhu, S., 14 Dec 2025, In: European Heart Journal. 46, 47, p. 5195-5198 4 p.
3. **Prevalence of cardiac fibrosis and infiltrative cardiomyopathy in patients with advanced conduction system disease**
   William, J., Muthana, H., Hogarty, J., Taylor, A., Hare, J. L., Mariani, J., Patel, H., Wong, G., Stub, D., Kaye, D. M., Prabhu, S., Kistler, P. M. & Voskoboinik, A., Aug 2025, In: Journal of Arrhythmia. 41, 4, 8 p., e70109.
4. **Hyperlactataemia is a marker of reduced exercise capacity in heart failure with preserved ejection fraction**
   Nan Tie, E., Wolsk, E., Nanayakkara, S., Vizi, D., Mariani, J., Moller, J. E., Hassager, C., Gustafsson, F. & Kaye, D. M., Oct 2024, In: ESC Heart Failure. 11, 5, p. 2557-2565 9 p.
5. **Predictors of pacemaker requirement in patients receiving implantable loop recorders for unexplained syncope: A systematic review and meta-analysis**
   William, J., Nanayakkara, S., Chieng, D., Sugumar, H., Ling, L. H., Patel, H., Mariani, J., Prabhu, S., Kistler, P. M. & Voskoboinik, A., Sept 2024, In: Heart Rhythm. 21, 9, p. 1703-1710 8 p.
6. **Response to: Regard to assessing agreement between two raters with kappa statistics**
   Paratz, E. D., Stub, D., Sutherland, N., Gutman, S., La Gerche, A., Mariani, J., Taylor, A. & Ellims, A., 1 Jun 2024, In: International Journal of Cardiology. 404, 1 p., 131978.
7. **Cardiac Substrate Utilization and Relationship to Invasive Exercise Hemodynamic Parameters in HFpEF**
   O'Sullivan, J. F., Li, M., Koay, Y. C., Wang, X. S., Guglielmi, G., Marques, F. Z., Nanayakkara, S., Mariani, J., Slaughter, E. & Kaye, D. M., Mar 2024, In: JACC: Basic to Translational Science. 9, 3, p. 281-299 19 p.
8. Caudal fluoroscopic guidance for the insertion of transvenous pacing leads
   Morton, M. B., William, J., Kistler, P. M., Prabhu, S., Sugumar, H., Brink, O. V. D., Patel, H., Mariani, J. & Voskoboinik, A., Mar 2024, In: Journal of Cardiovascular Electrophysiology. 35, 3, p. 433-437 5 p.

9. Influence of Impaired Conduction on Exercise Hemodynamics in Patients With Preserved Ejection Fraction
Hogarty, J. P., Comella, A., Nanayakkara, S., William, J., Stub, D., Mariani, J. A., Patel, H. C., Kistler, P. M., Kaye, D. M. & Voskoboinik, A., Mar 2024, In: JACC: Heart Failure. 12, 3, p. 588-590 3 p.

10. **The Impact of Diabetes on Haemodynamic and Cardiometabolic Responses in Heart Failure With Preserved Ejection Fraction**
Nan Tie, E., Nanayakkara, S., Vizi, D., Mariani, J. & Kaye, D. M., Mar 2024, In: Heart Lung and Circulation. 33, 3, p. 376-383 8 p.

11. **Cardiac Resynchronisation Therapy: How Medicare Criteria Might Inadvertently Promote Disparate Healthcare**
Roccisano, L., Voskoboinik, A., Mariani, J., Marwick, T. H. & Patel, H. C., Feb 2024, In: Heart Lung and Circulation. 33, 2, p. e10-e11 2 p.

12. **The challenge of risk stratification in hypertrophic cardiomyopathy: Clinical, genetic and imaging insights from a quaternary referral centre**
Paratz, E. D., Stub, D., Sutherland, N., Gutman, S., La Gerche, A., Mariani, J., Taylor, A. & Ellims, A., 15 Jan 2024, In: International Journal of Cardiology. 395, 7 p., 131416.

13. **Transvenous versus subcutaneous implantable cardioverter defibrillators in young cardiac arrest survivors**
Morton, M. B., Mariani, J. A., Kistler, P. M., Patel, H. & Voskoboinik, A., Nov 2023, In: Internal Medicine Journal. 53, 11, p. 1956-1962 7 p.

14. **Subcutaneous defibrillator use with unipolar pacemakers: Cautiously possible**
Rubinstein, M., Zhu, A., Mariani, J. A. & Patel, H. C., 1 Jul 2023, In: Indian Pacing and Electrophysiology Journal. 23, 4, p. 126-129 4 p.

15. **Atrial Fibrillation Ablation for Heart Failure With Preserved Ejection Fraction: A Randomized Controlled Trial**
Chieng, D., Sugumar, H., Segan, L., Tan, C., Vizi, D., Nanayakkara, S., Al-Kaisey, A., Hawson, J., Prabhu, S., Voskoboinik, A., Finch, S., Morton, J. B., Lee, G., Mariani, J., La Gerche, A., Taylor, A. J., Howden, E., Kistler, P. M., Kalman, J. M. & Kaye, D. M. & 1 others, Ling, L. H., Jun 2023, In: JACC: Heart Failure. 11, 6, p. 646-658 13 p.

16. **Diagnostic evaluation of unexplained ventricular tachyarrhythmias in younger adults**
William, J., Xiao, X., Shirwaiker, A., Patel, H., Prabhu, S., Ling, L.-H., Sugamar, H., Mariani, J., Kistler, P. & Voskoboinik, A., Apr 2023, In: Journal of Cardiovascular Electrophysiology. 34, 4, p. 959-966 8 p.

17. Impact of device length on electrogram sensing in miniaturized insertable cardiac monitors
Pitman, B. M., Kadhim, K., Tarone, R., Jones, E., Linz, D., Lim, M., Heath, K. M., Scanlan, N., Roberts-Thomson, K. C., Young, G. D., Wong, C. X., Sanders, P., Mariani, J. A. & Lau, D. H., 1 Jul 2022, In: Journal of Electrocardiology. 73, p. 42-48 7 p.

18. **Long-Term Implications of Pacemaker Insertion in Younger Adults: A Single Centre Experience**
Shirwaiker, A., William, J., Mariani, J. A., Kistler, P. M., Patel, H. C. & Voskoboinik, A., 1 Jul 2022, In: Heart Lung and Circulation. 31, 7, p. 993-998 6 p.

19. **Prediction of Pacemaker Requirement in Patients With Unexplained Syncope: The DROP Score**
Xiao, X., William, J., Kistler, P. M., Joseph, S., Patel, H. C., Vaddadi, G., Kalman, J. M., Mariani, J. A. & Voskoboinik, A., Jul 2022, In: Heart Lung and Circulation. 31, 7, p. 999–1005 7 p.

20. **Physiologic Insights Into Long COVID Breathlessness**
Kaye, D. M., Vizi, D., Graham, S., Wang, B., Shihata, W., Nanayakkara, S., Mariani, J. & Premaratne, M., 1 Jun 2022, In: Circulation: Heart Failure. 15, 6, p. 627-628 2 p., E009346.

21. **Prescription trends and costs of diabetes medications in Australia between 2003 and 2019: an analysis and review of the literature**
Cieslik, L. K., Cresswell, N. R., Fineberg, D., Mariani, J. A. & Patel, H. C., May 2022, In: Internal Medicine Journal. 52, 5, p. 841-847 7 p.

22. **Characterization of Cardiac Sympathetic Nervous System and Inflammatory Activation in HFpEF Patients**
Kaye, D. M., Nanayakkara, S., Wang, B., Shihata, W., Marques, F. Z., Esler, M., Lambert, G. & Mariani, J., Feb 2022, In: JACC: Basic to Translational Science. 7, 2, p. 116-127 12 p.

23. Cardiac MRI Findings in Patients presenting With Advanced Conduction System Disease
Jumaah, H., Kistler, P., Mariani, J., Patel, H., Hare, J., Kaye, D., Taylor, A. & Voskoboinik, A., 2022, In: Heart Lung and Circulation. 31, S3, p. S152 1 p., 231.

24. **Comprehensive physiological modeling provides novel insights into heart failure with preserved ejection fraction physiology**
Kaye, D. M., Wolsk, E., Nanayakkara, S., Mariani, J., Hassager, C., Gustafsson, F., Moller, J. E., Sunagawa, K. & Burkhoff, D., Oct 2021, In: Journal of the American Heart Association. 10, 19, 13 p., e021584.

25. **A prospective STudy using invAsive haemodynamic measurements foLLowing catheter ablation for AF and early HFpEF: STALL AF-HFpEF**
Sugumar, H., Nanayakkara, S., Vizi, D., Wright, L., Chieng, D., Leet, A., Mariani, J. A., Voskoboinik, A., Prabhu, S., Taylor, A. J., Kalman, J. M., Kistler, P. M., Kaye, D. M. & Ling, L. H., May 2021, In: European Journal of Heart Failure. 23, 5, p. 785-796 12 p.

26. Metastatic Right Ventricular Liposarcoma
Brennan, A. P., Newcomb, A., Creati, L. & Mariani, J., 1 Feb 2021, In: Heart Lung and Circulation. 30, 2, p. e55-e57 3 p.

27. **Identification of physiologic treatment targets with favourable haemodynamic consequences in heart failure with preserved ejection fraction**
Kaye, D. M., Byrne, M., Mariani, J., Nanayakkara, S. & Burkhoff, D., Dec 2020, In: ESC Heart Failure. 7, 6, p. 3685-3693 9 p.

28. **Impact of Individual Patient Profiles on Adherence to Guideline Directed Medical Therapy in Heart Failure With Reduced Ejection Fraction: VCOR-HF Study**
Driscoll, A., Dinh, D., Wong, J., Hopper, I., Mariani, J., Zimmet, H., Brennan, A., Lefkovits, J. L., Carruthers, H. & Reid, C. M., Dec 2020, In: Heart Lung and Circulation. 29, 12, p. 1782-1789 8 p.

29. **Non-invasive blood pressure monitoring underestimates hypertensive response to exercise in suspected heart failure with preserved ejection fraction**
Cieslik, L. K., Patel, H. C., Steele, S. J., Beale, A. L., Tan, C. N., Mariani, J. A., Nanayakkara, S. & Kaye, D. M., Dec 2020, In: European Journal of Preventive Cardiology. 27, 19, p. 2180-2182 3 p.

30. **Contemporary trends in antiplatelet prescription in Australia**
Tan, C., Cieslik, L., Steele, S., Warner, V., Mariani, J. & Patel, H. C., 1 Aug 2020, In: Journal of Pharmacy Practice and Research. 50, 4, p. 366-368 3 p.

31. **Rural and Remote Cardiology During the COVID-19 Pandemic: Cardiac Society of Australia and New Zealand (CSANZ) Consensus Statement**
Arnold, R. H., Tideman, P. A., Devlin, G. P., Carroll, G. E., Elder, A., Lowe, H., Macdonald, P. S., Bannon, P. G., Juergens, C., McGuire, M., Mariani, J. A., Coffey, S., Faddy, S., Brown, A., Inglis, S. & Wang, W. Y. S., Jul 2020, In: Heart Lung and Circulation. 29, 7, p. e88-e93 6 p.

32. Increased Incidence of Noise in the Tendril Pacemaker Lead Detected via Remote Monitoring
Lovibond, S., Youngs, N., Kotschet, E., Adam, D., Antonov, A. & Mariani, J. A., Jun 2020, In: Heart Lung and Circulation. 29, 6, p. 936-939 4 p.

33. **Position Statement on the Management of Cardiac Electrophysiology and Cardiac Implantable Electronic Devices in Australia During the COVID-19 Pandemic: A Living Document**
Kumar, S., Haqqani, H., Wynn, G., Pathak, R. K., Lipton, J., Mahajan, R., Sanders, P., Healey, S., Wilsmore, B., Mariani, J. A., Thomas, S. P., Weerasooriya, R., McGavigan, A., Gould, P. A., Weatherley, P., Saad, N., Cowan, M., Turnbull, S., Trivic, I. & Wong, M. & 8 others, Tonchev, I., Morton, J. B., Skinner, J. R., Pflaumer, A., McGuire, M., Kistler, P., Kalman, J. M. & for the Cardiac Society of Australia and New Zealand (CSANZ) Heart Rhythm Council COVID-19 Pandemic Working Group, Jun 2020, In: Heart Lung and Circulation. 29, 6, p. e57-e68 12 p.

34. **Miniaturized implantable cardiac monitor with a long sensing vector (BIOMONITOR III): Insertion procedure assessment, sensing performance, and home monitoring transmission success**
Mariani, J. A., Weerasooriya, R., van den Brink, O., Mohamed, U., Gould, P. A., Pathak, R. K., Lin, T., Conradie, A., Illes, P., Pavia, S., Rajamani, K., Lovibond, S., Matthews, I., DiFiore, D., Arumugam, D., Schrader, J. & Lau, D. H., May 2020, In: Journal of Electrocardiology. 60, p. 118-125 8 p.

35. **Driving with cardiac devices in Australia. Does a review of recent evidence prompt a change in guidelines?**
Lovibond, S. W., Odell, M. & Mariani, J. A., Mar 2020, In: Internal Medicine Journal. 50, 3, p. 271-277 7 p.

36. **The effect of parity on exercise physiology in women with heart failure with preserved ejection fraction**
Beale, A. L., Cosentino, C., Segan, L., Mariani, J. A., Vizi, D., Evans, S., Nanayakkara, S. & Kaye, D. M., Feb 2020, In: ESC Heart Failure. 7, 1, p. 213-222 10 p.

37. **The prognostic significance of chronotropic incompetence in patients with severe left ventricular systolic function referred for cardiac transplant assessment**
Patel, H. C., Yo, S., Nanayakkara, S., Selkrig, L., Ellis, M. J., Naughton, M. T., Kaye, D. M. & Mariani, J. A., Feb 2020, In: European Journal of Preventive Cardiology. 27, 3, p. 328-330 3 p.

38. An unusual suspect for heart failure
Tan, C., Patel, H. C. & Mariani, J., 2020, In: Acute Medicine. 19, 1, p. 52-55 4 p.

39. **Outcomes of anemic patients presenting with acute coronary syndrome: An analysis of the Cooperative National Registry of Acute Coronary Care, Guideline Adherence and Clinical Events**
Huynh, R., Hyun, K., D'Souza, M., Kangaharan, N., Shetty, P. C., Mariani, J., Kilian, J., Hung, J., Ryan, M., Chew, D. P. & Brieger, D., Sept 2019, In: Clinical Cardiology. 42, 9, p. 791-796 6 p.

40. **A retrospective evaluation of risk of peripartum cardiac dysfunction in survivors of childhood, adolescent and young adult malignancies**
Chait-Rubinek, L., Mariani, J. A., Goroncy, N., Herschtal, A., Wheeler, G. C., Dwyer, M. K., Seymour, J. F. & Campbell, B. A., Aug 2019, In: Cancers. 11, 8, 14 p., 1046.

41. **Impaired left atrial strain predicts abnormal exercise haemodynamics in heart failure with preserved ejection fraction**
Telles, F., Nanayakkara, S., Evans, S., Patel, H. C., Mariani, J. A., Vizi, D., William, J., Marwick, T. H. & Kaye, D. M., Apr 2019, In: European Journal of Heart Failure. 21, 4, p. 495-505 11 p.

42. **Sex Differences in Heart Failure With Preserved Ejection Fraction Pathophysiology: A Detailed Invasive Hemodynamic and Echocardiographic Analysis**
Beale, A. L., Nanayakkara, S., Segan, L., Mariani, J. A., Maeder, M. T., van Empel, V., Vizi, D., Evans, S., Lam, C. S. P. & Kaye, D. M., Mar 2019, In: JACC: Heart Failure. 7, 3, p. 239-249 11 p.

43. Absence of late gadolinium enhancement on cardiac magnetic resonance imaging in ventricular fibrillation and nonischemic cardiomyopathy
Voskoboinik, A., Wong, M. C. G., Elliott, J. K., Costello, B. T., Prabhu, S., Mariani, J. A., Kalman, J. M., Kistler, P. M., Taylor, A. J. & Morton, J. B., 1 Sept 2018, In: Pacing and Clinical Electrophysiology. 41, 9, p. 1109-1115 7 p.

44. **Regression of Diffuse Ventricular Fibrosis Following Restoration of Sinus Rhythm With Catheter Ablation in Patients With Atrial Fibrillation and Systolic Dysfunction: A Substudy of the CAMERA MRI Trial**
Prabhu, S., Costello, B. T., Taylor, A. J., Gutman, S. J., Voskoboinik, A., McLellan, A. J. A., Peck, K. Y., Sugumar, H., Iles, L., Pathik, B., Nalliah, C. J., Wong, G. R., Azzopardi, S. M., Lee, G., Mariani, J., Kaye, D. M., Ling, L. H., Kalman, J. M. & Kistler, P. M., 1 Aug 2018, In: JACC: Clinical Electrophysiology. 4, 8, p. 999-1007 9 p.

45. **Trends in outpatient anti-arrhythmic prescriptions for atrial fibrillation and left atrial ablation in Australia: 1997–2016**
Khan, I., Patel, H. C., Nanayakkara, S., Raju, H., Voskoboinik, A. & Mariani, J. A., Apr 2018, In: Internal Medicine Journal. 48, 4, p. 427-432 6 p.

46. **Mind the Gap: Mismatches Between Clinicians and Patients in Heart Failure Medication Management**
Chin, K. L., Skiba, M., Reid, C. M., Tonkin, A., Hopper, I., Mariani, J. A. & Liew, D., 1 Feb 2018, In: Cardiovascular Drugs and Therapy. 32, 1, p. 37-46 10 p.

47. Biatrial Electrical and Structural Atrial Changes in Heart Failure: Electroanatomic Mapping in Persistent Atrial Fibrillation in Humans
Prabhu, S., Voskoboinik, A., McLellan, A. J. A., Peck, K. Y., Pathik, B., Nalliah, C. J., Wong, G. R., Azzopardi, S. M., Lee, G., Mariani, J., Ling, L. H., Taylor, A. J., Kalman, J. M. & Kistler, P. M., 1 Jan 2018, In: JACC: Clinical Electrophysiology. 4, 1, p. 87-96 10 p.

48. **Implantable cardioverter defibrillator knowledge and end-of-life device deactivation: A cross-sectional survey**
McEvedy, S. M., Cameron, J., Lugg, E., Miller, J., Haedtke, C., Hammash, M., Biddle, M. J., Lee, K. S., Mariani, J. A., Ski, C. F., Thompson, D. R., Chung, M. L. & Moser, D. K., 1 Jan 2018, In: Palliative Medicine. 32, 1, p. 156-163 8 p.

49. **Catheter Ablation Versus Medical Rate Control in Atrial Fibrillation and Systolic Dysfunction: The CAMERA-MRI Study**
Prabhu, S., Taylor, A. J., Costello, B. T., Kaye, D. M., McLellan, A. J. A., Voskoboinik, A., Sugumar, H., Lockwood, S. M., Stokes, M. B., Pathik, B., Nalliah, C. J., Wong, G. R., Azzopardi, S. M., Gutman, S. J., Lee, G., Layland, J., Mariani, J. A., Ling, L. H., Kalman, J. M. & Kistler, P. M., 17 Oct 2017, In: Journal of the American College of Cardiology. 70, 16, p. 1949-1961 13 p.

50. A comparison of the electrophysiologic and electroanatomic characteristics between the right and left atrium in persistent atrial fibrillation: Is the right atrium a window into the left?
Prabhu, S., Voskoboinik, A., McLellan, A. J. A., Peck, K. Y., Pathik, B., Nalliah, C. J., Wong, G. R., Azzopardi, S. M., Lee, G., Mariani, J., Ling, L. H., Taylor, A. J., Kalman, J. M. & Kistler, P. M., 1 Oct 2017, In: Journal of Cardiovascular Electrophysiology. 28, 10, p. 1109-1116 8 p.

51. **Hemodynamic Profile of Patients With Heart Failure and Preserved Ejection Fraction Vary by Age**
Nanayakkara, S., Haykowsky, M., Mariani, J., Van Empel, V., Maeder, M. T., Vizi, D. & Kaye, D. M., 22 Sept 2017, In: Journal of the American Heart Association. 6, 9, 6 p., e005434.

52. Cardiac implantable electronic device hematomas: Risk factors and effect of prophylactic pressure bandaging
Koh, Y., Bingham, N. E., Law, N., Le, D. & Mariani, J. A., Jul 2017, In: Pacing and Clinical Electrophysiology. 40, 7, p. 857-867 11 p.

53. **Managing patients after implantation of a cardiac rhythm management device**
Patel, H. C., Raju, H., Voskoboinik, A. & Mariani, J. A., May 2017, In: Medicine Today. 18, 5, p. 33-40 8 p.

54. **Heart failure with preserved ejection fraction: Improving diagnosis and management**
Mariani, J. A. & Kaye, D. M., 1 Jan 2017, In: Medicine Today. 18, 1, p. 37-42 6 p.

55. Determining the Optimal Dose of Adenosine for Unmasking Dormant Pulmonary Vein Conduction Following Atrial Fibrillation Ablation: Electrophysiological and Hemodynamic Assessment. DORMANT-AF Study
Prabhu, S., Mackin, V., Mclellan, A. J. A., Phan, T., McGlade, D., Ling, L.-H., Peck, K. Y., Voskoboinik, A., Pathik, B., Nalliah, C. J., Wong, G. R., Azzopardi, S. M., Lee, G., Mariani, J., Taylor, A. J., Kalman, J. M. & Kistler, P. M., Jan 2017, In: Journal of Cardiovascular Electrophysiology. 28, 1, p. 13-22 10 p.

56. Caudal fluoroscopy to guide venous access for pacemaker device implantation: Should this now be standard practice?
Patel, H. C., Hayward, C., Nanayakkara, S., Broughton, A. & Mariani, J. A., 2017, In: Heart Asia. 9, 1, p. 68-69 2 p.