

Dr. Abhishek Joshi BMBCh, BA (Hons), MRCP (Lon.), PhD

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**Education & Qualifications**

Certificate of Completion of Training (Cardiology) General Medical Council, UK	2022
Accreditation in Transthoracic Echocardiography British Society of Echocardiography	2022
Doctor of Philosophy in Cardiovascular Systems Biology, PhD King's College, London Supervisors: Prof. M. Mayr & Prof. A. Mathur Thesis: "Platelet MultiOmics In Cardiovascular Disease"	2021
Member of the Royal College of Physicians (Lon.)	2012
Medicine (Fast Track), BMBCh St. Hugh's College, University of Oxford Elective at Mount Sinai School of Medicine (Paediatric Cardiology)	2008
Philosophy, Experimental Psychology and Physiology, BA (Hons) 2:(i) The Queen's College, University of Oxford	2003

Medical Experience

Consultant Cardiologist (Locum) In General Cardiology and Echocardiography, Royal London Hospital, Bart's NHS Trust	10/2021-
<ul style="list-style-type: none"> General cardiology and consult service in a large teaching hospital Special interest in premature and high risk atherosclerosis. Specialist echo lists at tertiary cardiac centre 	
Cardiology Registrar (ST6&7) Sub-specialty training in Cardiac Imaging, Bart's Heart Centre, NE Thames	2015-2021
Cardiac CT and advanced echocardiography, MRI and nuclear imaging	
Cardiology Registrar (ST4&5), London Chest Hospital/Bart's Heart Centre, NE Thames	2014-2015
Tertiary interventional cardiology referral centre	
Cardiology Registrar (ST4), St. Bartholomew's Hospital, NE Thames	2013-2014
Tertiary cardiac electrophysiology referral centre	
Cardiology Registrar (ST3), Whipp's Cross University Hospital, NE Thames	2012-2013
Extensive experience in general cardiology, Emergency and acute medicine	
Core Medical Trainee (CMT 1&2), South London Deanery	2010-2012
Guy's and St. Thomas' NHS Trust, South London NHS Trust	
Foundation Trainee (FY1&2), South Thames Foundation School	2008-2010
Conquest Hospital, Hastings and Guy's & St. Thomas' Hospital	

Leadership & Strategic Roles

Community Diagnostic Hub, Bart's Health NHS Trust	2022-
<ul style="list-style-type: none"> • Business Case Lead for Cardiovascular: Awarded funding for 5 echo rooms and 50% CT scanner time. • Co-ordinated multidisciplinary group to scope, design, cost and deliver a business case for a new diagnostic hub. • Used internal and external data to illustrate demand. • Advanced data analytics to describe geographic requirements. • Designed patient pathways and diagnostic packages. • Costed hardware, staff, consumables & prepared successful bid. • Now developing staffing and estates model 	
British Cardiovascular Society	
<ul style="list-style-type: none"> • Vice President: Professional and Society Ethics Lead 3 Committees delivering change on: Women in Cardiology; Equality, Diversity & Inclusivity including bullying, racism and discrimination; and Environmental Sustainability • Committee Member: Finance Committee • Committee Member: EEGC Standards Setting Committee • Committee Member: Education Committee 	2022 - 2025 2020 - 2021 2018 - 2021 2017 - 2019
President; British Junior Cardiologists Association	2018 - 2020
<ul style="list-style-type: none"> • Elected Leader of c. 1400 UK Cardiology trainees. • Raised c. £200,000 in industry funding. • Educated 900 cardiology trainees in face-to-face meetings. • Conceived and delivered "BJCA.tv", online education platform. • Council roles at British Cardiovascular Society, NHS England, RCP. • Previously BJCA Secretary and BJCA Communications Officer 	

Teaching & Training

Educational Supervisor, ST4, NE Thames LETB	2021-
Supervise and support cardiology trainees.	
Clinical Supervisor, FY1, NE Thames Foundation School	2021-
Supervise and support foundation trainees	
Consultant Joint Lead Echocardiography Teaching, Royal London	2021-
Weekly teaching session in joint physician-physiologist echo meeting	
MSc Supervisor	2019
BHF MSc/PhD Mini-project "Circular RNA Upon Platelet Activation" Awarded Distinction (78/100)	
Simply Finals: Cardiology	2012-2022
Delivered the Finals cardiology lecture for Bart's and the London Medical School for 9 consecutive years. Consistently rated as "excellent" by >80% of attendees	

Grants Awarded

British Heart Foundation Clinical Research Training Fellowship

3 years funding for PhD at King's College, London and Queen Mary's £238,950
University of London

SBRI Healthcare Phase I & II with Invitron Ltd

Point-of-care Chemiluminescence assays for cardiac biomarkers £547,068

Publications

(>1200 citations)

1. Malcolmson, J. W., Hughes, R. K., Joshi, A., Cooper, J., Breitenstein, A., Ginks, M., Petersen, S. E., Mohiddin, S. A. & Dhinoja, M. B. Therapeutic benefits of distal ventricular pacing in mid-cavity obstructive hypertrophic cardiomyopathy. *Ther. Adv. Cardiovasc. Dis.* **16**, (2022).
2. Camm, C. F., Joshi, A., Moore, A., Sinclair, H. C., Westwood, M., Greenwood, J. P., Calver, A., Ray, S. & Allen, C. Bullying in UK cardiology: A systemic problem requiring systemic solutions. *Heart* **108**, 212–218 (2022).
3. Joshi, A., Schmidt, L. E., Burnap, S. A., Lu, R., Chan, M. V., Armstrong, P. C., Baig, F., Gutmann, C., Willeit, P., Santer, P., Barwari, T., Theofilatos, K., Kiechl, S., Willeit, J., Warner, T. D., Mathur, A. & Mayr, M. Neutrophil-Derived Protein S100A8/A9 Alters the Platelet Proteome in Acute Myocardial Infarction and Is Associated with Changes in Platelet Reactivity. *Arterioscler. Thromb. Vasc. Biol.* **42**, 49–62 (2022).
4. Armstrong, P. C., Allan, H. E., Kirkby, N. S., Gutmann, C., Joshi, A., Crescente, M., Mitchell, J. A., Mayr, M. & Warner, T. D. Temporal in vivo platelet labelling in mice reveals age-dependent receptor expression and conservation of specific mRNAs. *Blood Adv.* (2022) doi:10.1182/bloodadvances.2022007099.
5. Mbonye, K. A., Yazdi, A., Cashin, S., Ahluwalia, N., Laskar, N., Bhattacharyya, S., Hayward, C., Lloyd, G. & Joshi, A. 13 Clinical informatics to direct community echocardiography: an electronic healthcare record pilot. in A10–A11 (2021). doi:10.1136/heartjnl-2021-bcs.13.
6. Allan, H. E., Hayman, M. A., Marcone, S., Chan, M. V., Edin, M. L., Maffucci, T., Joshi, A., Menke, L., Crescente, M., Mayr, M., Zeldin, D. C., Armstrong, P. C. & Warner, T. D. Proteome and functional decline as platelets age in the circulation. *J. Thromb. Haemost.* **00**, 1–18 (2021).
7. Gutmann, C., Joshi, A., Zampetaki, A. & Mayr, M. The Landscape of Coding and Noncoding RNAs in Platelets. *Antioxid. Redox Signal.* **ars.2020.8139** (2020) doi:10.1089/ars.2020.8139.
8. Braza-Boils, A., Barwari, T., Gutmann, C., Thomas, M. R., Judge, H. M., Joshi, A., Pechlaner, R., Shankar-Hari, M., Ajjan, R. A., Sabroe, I., Storey, R. F. & Mayr, M. Circulating microRNA levels indicate platelet and leukocyte activation in endotoxemia despite platelet P2Y12 inhibition. *Int. J. Mol. Sci.* **21**, 2897 (2020).
9. Joshi, A., Rienks, M., Theofilatos, K. & Mayr, M. Systems biology in cardiovascular disease: a multiomics approach. *Nature Reviews Cardiology* **1–18** (2020) doi:10.1038/s41569-020-00477-1.
10. Cowie, M., Fay, M., Jerrome, J., Joshi, A., Moore, J. & Williamns, H. Adapting cardiovascular disease care to the 'new norm' of the COVID-19 era: same standard, different delivery. *Br. J. Cardiol.* **27**, S2–S16 (2020).
11. Schulte, C., Barwari, T., Joshi, A., Theofilatos, K., Zampetaki, A., Barallobre-Barreiro, J., Singh, B., Sörensen, N. A., Neumann, J. T., Zeller, T., Westermann, D., Blankenberg, S., Marber, M., Liebetrau, C. & Mayr, M. Comparative analysis of circulating noncoding RNAs versus protein biomarkers in the detection of myocardial injury. *Circ. Res.* **125**, 328–340 (2019).
12. Sinclair, H. C., Joshi, A., Allen, C., Joseph, J., Sohaib, S. M. A., Calver, A. & Smith, R. Women in Cardiology. *European Heart Journal* vol. 40 227–231 (2019).
13. Dobson, R., Joshi, A., Allen, C. & Sinclair, H. C. Less than full-time training in cardiology. *Heart* vol. 105 1445–1446 (2019).
14. Yazdani, M. F., Kotronias, R. A., Joshi, A., Camm, C. F. & Allen, C. J. British cardiology training assessed. *European Heart Journal* vol. 40 2475–2477 (2019).
15. Rienks, M., Joshi, A. & Mayr, M. MicroRNA-24 and the Diabetic Heart *. *JACC: Basic to Translational Science* vol. 3 363–365 (2018).
16. Fava, M., Barallobre-Barreiro, J., Mayr, U., Lu, R., Didangelos, A., Baig, F., Lynch, M., Catibog, N., Joshi, A., Barwari, T., Yin, X., Jahangiri, M. & Mayr, M. Role of ADAMTS-5 in aortic dilatation and extracellular matrix remodeling. *Arterioscler. Thromb. Vasc. Biol.* **38**, 1537–1548 (2018).
17. Joshi, A. & Mayr, M. In Aptamers They Trust Caveats of the SOMAscan Biomarker Discovery Platform From SomaLogic. *Circulation* **138**, 2482–2485 (2018).
18. Malcolmson, J. W., Hamshire, S. M., Joshi, A., O'Mahony, C., Dhinoja, M., Petersen, S. E., Sekhri, N. & Mohiddin, S. A. Doppler echocardiography underestimates the prevalence and magnitude of mid-cavity obstruction in patients with symptomatic hypertrophic cardiomyopathy. *Catheter. Cardiovasc. Interv.* **91**, 783–789 (2018).

19. Sunderland, N., Skroblin, P., Barwari, T., Huntley, R. P., Lu, R., Joshi, A., Lovering, R. C. & Mayr, M. MicroRNA Biomarkers and Platelet Reactivity: The Clot Thickens. *Circulation Research* vol. 120 418–435 (2017).
20. Baig, F., Joshi, A. & Mayr, M. High-density lipoproteins in high resolution: Will proteomics solve the paradox for cardiovascular risk? *Proteomics* vol. 17 1600426 (2017).
21. Rodrigues, P., Joshi, A., Williams, H., Westwood, M., Petersen, S. E., Zemrak, F., Schilling, R. J., Kirkby, C., Wragg, A., Manisty, C. & Mohiddin, S. Diagnosis and Prognosis in Sudden Cardiac Arrest Survivors Without Coronary Artery Disease: Utility of a Clinical Approach Using Cardiac Magnetic Resonance Imaging. *Circ. Cardiovasc. Imaging* **10**, (2017).
22. **Barwari, T., Joshi, A. & Mayr, M. MicroRNAs in Cardiovascular Disease. *J. Am. Coll. Cardiol.* **68**, 2577–2584 (2016).**
23. Joshi, A. & Wragg, A. Simulator Training in Interventional Cardiology. *Interv. Cardiol. Rev.* **11**, 70 (2016).
24. Williams, H., Yang, L., Gale, J., Paranehewa, S., Joshi, A., Westwood, M. & Weerackody, R. Simulation of cardiac emergencies with real patients. *Clin. Teach.* **12**, 341–345 (2015).
25. Williams, H. J., Joshi, A., Kirkby, C., Castiello, T., Stephenson J, E., Wragg, A., Sekhri, N., Schilling, R. J. & Mohiddin, S. A. 3 Cardiac Diagnoses in Survivors of Cardiac Arrest with Culprit-Free Coronary Angiograms. *Heart* **100**, A1–A2 (2014).
26. Joshi, A., O'Donoghue, K., Mahmood, U., Banerjee, D. & Banerjee, A. Pregnancy outcomes in a patient with Sjogren's disease with renal involvement. *Obstet. Med. Med. Pregnancy* **6**, 175–178 (2013).
27. Michail, M., Asrress, K. N., Joshi, A., Giles, J. A., Khawaja, M. Z. & McWilliams, E. T. Re-Sheathing the Scimitar Syndrome. *Adv. Comput. Tomogr.* **01**, 21–22 (2012).
28. Khawaja, M. Z., Thomas, M., Joshi, A., Asrress, K. N., Wilson, K., Bolter, K., Young, C. P., Hancock, J., Bapat, V. & Redwood, S. The effects of VARC-defined acute kidney injury after transcatheter aortic valve implantation (TAVI) using the Edwards bioprosthesis. *EuroIntervention* **8**, 563–70 (2012).
29. de Bono, J. P., Stoll, V. M., Joshi, A., Rajappan, K., Bashir, Y. & Betts, T. R. Cavotricuspid isthmus dependent flutter is associated with an increased incidence of occult coronary artery disease. *Europace* **12**, 1774–7 (2010).
30. Scarci, M., Joshi, A. & Attia, R. In patients undergoing thoracic surgery is paravertebral block as effective as epidural analgesia for pain management? *Interact. Cardiovasc. Thorac. Surg.* **10**, 92–6 (2010).

Invited International Presentations

Multiomic analysis of platelets in coronary artery disease: Alarmins S100A8/A9 are transferred from neutrophils to platelets during acute myocardial infarction **The Platelet Society Early Career Symposium** September 2020

Multiomic Science is Expressing Itself **Conference of the American Heart Association** November 2021

Professional Memberships

- British Society of Echocardiography
- British Cardiovascular Society
- European Society of Cardiology
- European Association of Cardiovascular Imaging
- Royal College of Physicians
- British Medical Association
- Medical Protection Society