

Dr. Damian J. Kelly

BSc. (Med Sci.), MBChB(Hons.), MD, FRCP, FESC

Consultant Interventional and General Cardiologist

NAME: Damian John Kelly

DATE OF BIRTH: 6th March 1974

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| QUALIFICATIONS: | BSc. (Medical Science) | 1996 |
| | M.B., Ch.B. (Honours) | 1999 |
| | M.R.C.P. (UK) | 2002 |
| | M.D. (University of Leicester) | 2010 |
| | F.R.C.P (London) | 2016 |
| | F.E.S.C | 2024 |

PRIZES The Henri Moussali award 2002

GMC NUMBER: 4630955

CCT Date: Cardiology and General (Internal) medicine: 1.10.2011

PRESENT APPOINTMENT:

Consultant Cardiologist
University Hospitals of Derby and Burton NHS FT
Royal Derby Hospital
DE22 3NE

PROFESSIONAL BACKGROUND:

I qualified with a BSC in Medical Science from the University of St. Andrews in 1996 where I was president of the Bute Medical Society. I graduated MBChB with Honours from the University of Manchester in 1999 and completed house jobs at the Regional Cardiac Centres of Wythenshawe Hospital, Manchester and Victoria Hospital, Blackpool.

My specialist training was on the North-West cardiology rotation followed by an MD degree in coronary angiogenesis with Professor Tony Gershlick in Leicester awarded in 2010. I completed a 12-month interventional fellowship at the Waikato Hospital, New Zealand's highest volume interventional cardiac unit.

I became a member of the Royal College of Physicians in 2002 and was elected a fellow in 2016.

I was appointed Consultant Cardiologist with a special interest in coronary intervention at Royal Derby Hospital in 2011 and, as clinical lead since 2014, have led in establishing several new services including ambulatory heart failure and on-site complex cardiac device implantation.

I was appointed Clinical Director with responsibility for Specialist Medicine within the combined trust since August 2018, am past chair of the East Midlands Cardiac Network Cardiac Advisory Group. In 2020 was elected to the Guidelines and Practice committee of the British Cardiovascular Society (BCS), which advises NICE on cardiovascular issues. During 2023 I have co-authored national guideline updates on behalf of BCS/RCP and British Transplantation Society. I am currently a member of BCS council.

ADDITIONAL APPOINTMENTS & SOCIETIES:

- Non-surgical centre representative, British Cardiovascular Society 2024-
- Cardiovascular lead for Joined Up Care Derbyshire (NHSE) 2022-
- Clinical Director, Specialist Medicine Business Unit, UHDB 2018-2022
- BCS Guidelines and Practice Committee, August 2020-2024
- BCIS Allied Health Professionals Working Group 2017-present
- Council member, Derby Medical Society
- Secretary, British Junior Cardiologists' Association 2007-9.
- BMA multi-specialty trainees' group 2007-8.
- Associate Postgrad. Royal College Tutor South Manchester Hospitals 2002-3.
- South Manchester Research & Teaching committee 2002-3.
- German Leprosy & TB Relief worker in River State, Nigeria 1992-3.

MEMBERSHIP OF MEDICAL SOCIETIES:

- Royal College of Physicians and Surgeons of Glasgow.
- British Cardiovascular Society
- British Cardiovascular Intervention Society
- British Society of Echocardiography
- British Junior Cardiologists' Association

- Medical Defence Union

CURRENT MEDICAL PRACTICE:

I enjoy a busy and varied NHS general cardiology practice with a special interest in coronary intervention. I participate in a 1:7 24/7 rota for Primary PCI for acute myocardial infarction at Royal Derby Hospital serving a catchment population of approx. 1million population.

My research interests are in the area of acute MI, and I have co-authored papers on the treatment of multi-vessel coronary disease (the CvLPRIT trial) and PPCI in older patients (SENIOR-RITA) which have changed European and US guidelines.

MEDICO-LEGAL PRACTICE AND EXPERIENCE:

I provide expert reports across the range of adult cardiology. *I aim to return reports within 6 weeks of receipt of a complete information bundle from the instructing solicitor.*

I have extensive experience of complaint handling and chairing NHS trust serious incident reviews as clinical lead for cardiology and latterly as clinical director of specialist medicine for University Hospitals of Derby and Burton. I am currently cardiovascular lead for the Derbyshire Integrated Care Board.

I have prepared medico-legal reports since 2017.

The ratio of reports has been approximately 60% claimant, 30% defendant, 10% joint.

I write approximately 50 reports per year.

I have given expert witness evidence in the Coroner's court on 6 occasions. I have attended several conferences with counsel and claimant regarding civil matters, but have not as yet been called to give evidence at trial.

I completed medicolegal training with InspireMedilaw in 2018 and sit on their medical panel. I am also on the medical panel of AvMA.

Areas of medico-legal expertise:

I can give opinion across the range of adult cardiology with the following special interests: angina, Acute Coronary Syndromes, Myocardial Infarction (heart attack), valvular heart disease; Percutaneous Coronary Intervention (PCI, coronary angioplasty and stenting); assessment for Trans-catheter Aortic Valve Implantation (TAVI).

Medico-legal training

- Inspire Medilaw Expert Witness Training November 2018 and October 2021
- Inspire Medilaw Medical Panel

- Invited Faculty, Action against medical accidents (AvMA) Conference 2018 and 2022

SELECTED PUBLICATIONS:

Invasive treatment strategy for older patients with myocardial infarction.

Vijay Kunadian, Helen Mossop, Carol Shields, Michelle Bardgett, Philippa Watts 1, M Dawn Teare, Jonathan Pritchard, Jennifer Adams-Hall, Craig Runnett, David P Ripley, Justin Carter, Julie Quigley, Justin Cooke, David Austin, Jerry Murphy, **Damian Kelly**, James McGowan, Murugapathy Veerasamy, Dirk Felmeden, Hussain Contractor, Sanjay Mutgi, John Irving, Steven Lindsay, Gavin Galasko, Kelvin Lee, Ayyaz Sultan, Amardeep G Dastidar, Shazia Hussain, Iftikhar Ul Haq , Mark de Belder, Martin Denvir, Marcus Flather, Robert F Storey, David E Newby, Stuart J Pocock, Keith A A Fox; British Heart Foundation SENIOR-RITA Trial Team and Investigators. *N Engl J Med* 2024;391:1673-1684

Short-term adverse remodeling progression in asymptomatic aortic stenosis.

Singh A, Chan DCS, Kanagala P, Hogrefe K, Kelly DJ, Khoo JP, Sprigings D, Greenwood JP, Abdelaty AMSEK, Jerosch-Herold M, Ng LL, McCann GP. *Eur Radiol.* 2021 Jun;31(6):3923-3930. doi: 10.1007/s00330-020-07462-9. PMID:

Long-Term Follow-Up of Complete Versus Lesion-Only Revascularization in STEMI and Multivessel Disease: The CvLPRIT Trial.

Gershlick AH, Banning AS, Parker E, Wang D, Budgeon CA, Kelly DJ, Kane PO, Dalby M, Hetherington SL, McCann GP, Greenwood JP, Curzen N. *J Am Coll Cardiol.* 2019 Dec 24;74(25):3083-3094. doi: 10.1016/j.jacc.2019.10.033.

Aortic stiffness in aortic stenosis assessed by cardiovascular MRI: a comparison between bicuspid and tricuspid valves.

Singh A, Horsfield MA, Bekele S, Greenwood JP, Dawson DK, Berry C, Hogrefe K, Kelly DJ, Houston JG, Guntur Ramkumar P, Uddin A, Suzuki T, McCann GP. *Eur Radiol.* 2019 May;29(5):2340-2349. doi: 10.1007/s00330-018-5775-6. Epub 2018 Nov 28.

Symptom Onset in Aortic Stenosis: Relation to Sex Differences in Left Ventricular Remodeling.

Singh A, Chan DCS, Greenwood JP, Dawson DK, Sonecki P, Hogrefe K, Kelly DJ, Dhakshinamurthy V, Lang CC, Khoo JP, Sprigings D, Steeds RP, Zhang R, Ford I, Jerosch-Herold M, Yang J, Li Z, Ng LL, McCann GP. *JACC Cardiovasc Imaging.* 2019 Jan;12(1):96-105. doi: 10.1016/j.jcmg.2017.09.019.

Symptom Onset in Aortic Stenosis: Relation to Sex Differences in Left Ventricular Remodeling. Singh A, Chan DCS, Greenwood JP, Dawson DK, Sonecki P, Hogrefe K, Kelly DJ, Dhakshinamurthy V, Lang CC, Khoo JP, Sprigings D, Steeds RP, Zhang R, Ford I, Jerosch-Herold M, Yang J, Li Z, Ng LL, McCann GP. *JACC Cardiovasc Imaging.* 2017 Dec 8. pii: S1936-878X(17)30987-7.

Comparison of exercise testing and CMR measured myocardial perfusion reserve for predicting outcome in asymptomatic aortic stenosis: the PRognostic Importance of Microvascular Dysfunction in Aortic Stenosis (PRIMID AS) Study.

Singh A, Greenwood JP, Berry C, Dawson DK, Hogrefe K, Kelly DJ, Dhakshinamurthy V, Lang CC, Khoo JP, Sprigings D, Steeds RP, Jerosch-Herold

M, Neubauer S, Prendergast B, Williams B, Zhang R, Hudson I, Squire IB, Ford I, Samani NJ, McCann GP. *Eur Heart J*. 2017 Apr 21;38(16):1222-1229.

Infarct size following complete revascularization in patients presenting with STEMI: a comparison of immediate and staged in-hospital non-infarct related artery PCI subgroups in the CvLPRIT study.

Khan JN, Nazir SA, Greenwood JP, Dalby M, Curzen N, Hetherington S, Kelly DJ, Blackman D, Ring A, Peebles C, Wong J, Sasikaran T, Flather M, Swanton H, Gershlick AH, McCann GP. *J Cardiovasc Magn Reson*. 2016 Nov 9;18(1):85.

Ischemia and Infarction in STEMI Patients With Multivessel Disease: Insights From the CvLPRIT Nuclear Substudy.

Kelion AD, Pakkal MV, Chowdhury FU, Birchall JD, Dixon KL, Lai FY, Kelly DJ, Flather M, McCann GP, Gershlick AH.

J Am Coll Cardiol. 2016 Jun 7;67(22):2698-9.

Infarct Size Following Treatment With Second- Versus Third-Generation P2Y12 Antagonists in Patients With Multivessel Coronary Disease at ST-Segment Elevation Myocardial Infarction in the CvLPRIT Study.

Khan JN, Greenwood JP, Nazir SA, Lai FY, Dalby M, Curzen N, Hetherington S, Kelly DJ, Blackman D, Peebles C, Wong J, Flather M, Swanton H, Gershlick AH, McCann GP. *J Am Heart Assoc*. 2016 May 31;5(6).

The randomised Complete versus Lesion-only PRimary percutaneous coronary Intervention Trial: Cardiovascular Magnetic Resonance imaging substudy (CvLPRIT-CMR). McCann GP, Khan JN, Greenwood JP, Nazir SA, Dalby M, Curzen N, Hetherington S, Kelly DJ, Blackman DJ, Ring A, Peebles C, Wong J, Sasikaran T, Flather M, Swanton H, Gershlick AH.

Southampton (UK): NIHR Journals Library; 2016 Jan.

Complete Versus Lesion-Only Primary PCI: The Randomized Cardiovascular MR CvLPRIT Substudy.

McCann GP, Khan JN, Greenwood JP, Nazir S, Dalby M, Curzen N, Hetherington S, Kelly DJ, Blackman DJ, Ring A, Peebles C, Wong J, Sasikaran T, Flather M, Swanton H, Gershlick AH. *J Am Coll Cardiol*. 2015 Dec 22;66(24):2713-2724.

Randomized trial of complete versus lesion-only revascularization in patients undergoing primary percutaneous coronary intervention for STEMI and multivessel disease: the CvLPRIT trial.

Gershlick AH, Khan JN, Kelly DJ, Greenwood JP, Sasikaran T, Curzen N, Blackman DJ, Dalby M, Fairbrother KL, Banya W, Wang D, Flather M, Hetherington SL, Kelion AD, Talwar S, Gunning M, Hall R, Swanton H, McCann GP. *J Am Coll Cardiol*. 2015 Mar 17;65(10):963-72.

Incidence and Predictors of Heart Failure Following Percutaneous Coronary Intervention in ST-Segment Elevation Myocardial Infarction: The HORIZONS-AMI Trial. D J Kelly, T Gershlick, B Witenbichler, G Guagliumi, M Fahy, G Dangas, R Mehran, G W Stone. *Am Heart J*. 2011 Oct;162(4):663-70.

Activation of Hypoxia-Inducible Factor by Di-Methyl Oxalyl Glycine (DMOG) Increases Neovascularization within Ischaemic Myocardium in a Porcine Coronary Artery Occlusion Model. D J S Kelly, A C Morton, N D Arnold, J Mecinovic, C Schofield, H Lupton, K Al-Lamee, D C Crossman, J Gunn and A Gershlick. *J Clin Exp Cardiol*. 2011;2:148-154.

Book Chapters

Rescue PCI. DJ Kelly, AH Gershlick. *In: Reperfusion Therapy for Acute Myocardial Infarction* edited by Eric R. Bates. *Informa Helathcare Publishing March 2008*

Adjunctive Pharmacology in Rescue PCI. DJ Kelly, AH Gershlick. *In: Pharmacology in the Cath Lab.* Edited by R Waksman and A Ajani. *Blackwell Publishing 2007*

Radial Spasm- avoidance and management. DJ Kelly. *In: Complications of Percutaneous Coronary Intervention: The Survival Handbook.* Editors A Lindsay, K Chitkara. Springer Verlag 2014.

Avoidance and management of air embolism. *In: Complications of Percutaneous Coronary Intervention: The Survival Handbook.* Editors A. Lindsay, K Chitkara. Springer Verlag 2014.

Referees

Available on request