

**CURRICULUM VITAE**  
**CONSULTANT**

**DR. RAPHAEL A. PERRY**

*August 2018*

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WORK Liverpool Heart & Chest Hospital  
Thomas Drive, Broadgreen,  
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**Website** [www.cardiacspecialist.info](http://www.cardiacspecialist.info)

**DATE OF BIRTH:** 9<sup>th</sup> October 1956  
London, UK

**MARITAL STATUS:** Married  
Four Children

**EDUCATION:** Merchant Taylor's School, Liverpool  
Harrogate Grammar School  
Nottingham University Medical School

**QUALIFICATIONS:**

1978	B Med Sci (2:1 Hons)	Nottingham University
1980	BM BS	Nottingham University
1984	MRCP (UK)	RCP London
1990	DM	Nottingham University
1993	FACC	American College of Cardiology
1995	FRCP	RCP London

GMC Registration 2639828  
MPS Membership 126867

**POSITION:** Medical Director & Deputy Chief Executive; LHCH  
Consultant Cardiologist; LHCH  
Hon. Clinical Lecturer in Medicine; University of Liverpool

**SOCIETIES** British Cardiac Society (1988)  
European Society of Cardiology (1989)  
British Cardiovascular Intervention Society (1985)  
British Society of Echocardiography (1991)

## **CONSULTANT APPOINTMENT – (1991 to Present)**

*The Liverpool Heart & Chest Hospital is a tertiary referral centre for the investigation and treatment of adult cardiac and thoracic disorders. The centre serves the Cheshire and Mersey network population of 2.2 million and treats patients from North Wales and the Isle of Man*

*There are five Catheter Laboratories, a pacing theatre and nine cardiothoracic theatres. In 2013/14 the workload of the Unit included 2800 Coronary Interventional procedures including 1000 primary PCI activations, 110 ASD closures 20 PTMCs, in excess of 1500 invasive cardiac investigations, 1000 device procedures, 2000 CABG procedures and 250 other cardiac operations. In addition to the cardiac work it is the regional adult cystic fibrosis unit and has an active lung cancer and thoracic surgery programme.*

### **Clinical Experience**

*I have since appointment undertaken a heavy clinical workload in my major area of interest i.e. Interventional Cardiology with a total experience in excess of 8,000 cases. Year on year I have performed high volume complex coronary and valve interventions in wide range of patient subgroups. In addition I have until recently been heavily involved in the clinical development of Echocardiography.*

*Developments in Interventional Cardiology (ongoing); the introduction of new techniques to LHCH including lead use of intracoronary ultrasound, first/lead user in UK of Transluminal Extraction Atherectomy and Barath Cutting Balloon Angioplasty, development of cost saving coronary stent regimes. Collection of Audit Data on Interventional Cardiology. I have led the development of groin sealing post PTCA and the radial PCI programme with a view to early mobilisation and discharge. I was also instrumental in the development of day case PCI. I have led developments in day care delivery using \ patient focused lounge model. I have driven the adoption of the WHO checklist in the cath lab environment.*

*Director of Echocardiography 1991 – 2000: overseeing of training in Echocardiography; the development of new technology including multiplane TOE; the recent setting up of the a stress echocardiography service including facilities for contrast echo; the development and reporting of a GP based open access echocardiography service.*

### **Management Experience**

*I have been involved in medical management since 2000 in a variety of roles listed below. As Medical Director I am a member of the board of directors and have a wide ranging portfolio with an extensive role in clinical quality and safety. I firmly believe that clinicians should be at the forefront of the management process of the modern NHS. Good clinical leadership helps ensure the effectiveness of decision making and can lead change management. I think it is important that clinicians view themselves as part of the multi-disciplinary team but lead from the front and are early adopters of patient focussed change. I developed a new clinically led management structure in 2015 which has engaged clinicians as clinical leads and aspiring clinical leads and led to direct involvement with the running of the hospital and the wider NHS.*

*I led the cardiology department through a period of unprecedented change in approach and practice throughout the previous decade. The trust is nationally recognised as a centre of excellence and*

*innovation in Intervention, Electrophysiology and Pacing/Devices as well as outcome based research. The community cardiology service has been widely recognised as a major innovation in patient focussed care. The research structure in cardiology has been very well supported by the trust and I have made a significant contribution to the funding structure and linkage with Imperial College.*

*I have led the cardiac network and facilitated the joint working relationships with stakeholder trusts.*

*I have been involved with consultant appraisal since 2003 and from 2013- 2015 was the appraisal lead for the trust and deputy responsible officer. As Medical Director I am the trust responsible officer for revalidation. I realigned appraisal to a monthly process in September which ensured the trust is on track and compliant with GMC requirements. I completed Responsible Officer Training in March 2015.*

*I have dealt with a number of consultant disciplinary cases both as an investigator and case manager. I have chaired disciplinary panels and appeal panels. I have mediated consultant disputes with a satisfactory resolution. I have conducted RCAs and investigated SUIs with support from risk management.*

*I have deputised for the Medical Director at Exec meetings and attended the trust board.*

#### Training/Qualifications

<i>Diploma in Medical Management</i>	<i>Keele University</i>	<i>2000</i>
<i>BAMM Management for Clinicians</i>	<i>Liverpool</i>	<i>2005</i>
<i>Appraisal Training</i>	<i>Liverpool</i>	<i>2005; 2010; 2015</i>
<i>Dealing with Difficult Colleagues</i>	<i>Manchester</i>	<i>2008</i>
<i>Mediation Training</i>	<i>LHCH</i>	<i>2010</i>
<i>Revalidation Training</i>	<i>Manchester</i>	<i>2013; 2014</i>
<i>Various LHCH medical management training days.</i>		

#### Management Posts

*Medical Director 2015 – present*

*Deputy CEO 2016 – present*

*Deputy Medical Director 2012 - 2015*

*Associate Medical Director 2006 - 2011*

*Clinical Director Cardiology 2000-2005*

*Deputy Clinical lead for Cardiac Network 2005 - 2014*

*Member of Management Board/Operations Board 2001-present*

*Member of Clinical Quality Committee 2007 (now CQC PFEC) - present*

*Chair of Directorate Clinical Governance Committee 2006-present*

*Chair of PPCI Strategy/Monitoring Group 2008- 2014*  
*Member of Zonal Commissioning Team 2001-2004*  
*Revascularisation Lead for CHD Collaborative 2001-2004*  
*Member of Booked Admissions Steering Group 2000-2004*  
*Member of Local Steering Group and Strategy Group for CTC site expansion/development*  
*District Medical Advisory Committee 1993-2001.*  
*Regional Cardiology Advisory Board – Deputy Chairman 2005 – 2014*  
*Clinical Tutor LHCH 1993 - 2001*  
*Management of all Junior Staff rotas and leave 1991- 2002: liaising with Junior Doctors steering group on Hours/Regional Task force. Member of Doctors/Nurse Liaison Group*  
*Steering Committee for development of the Heart Emergency Centre 1994/1995 and ongoing audit of data.*  
*Regular meetings as medical representative with commissioners concerning new technologies*

### ***Teaching/Training***

*I have been involved in both undergraduate and postgraduate teaching for many years and regard this as a major commitment both in my previous role as postgraduate tutor and as Programme Director in the development of the Calman and subsequent Specialty Training training programs.*

*Postgraduate Clinical Tutor (1993-2002); large workload in ensuring high quality educational opportunities for junior medical staff in traditionally high service commitment posts*  
*Chairman of Local Education Board 1993-2002*  
*Chairman of STC Cardiology 1997-present*  
*British Cardiac Society Regional Specialty representative 2001-2015*  
*Member of Mersey Deanery School of Medicine Board 2005 - 2015*  
*Programme Director Specialist Registrar Training (Cardiovascular Medicine) 1996-2015*  
*Member of RCP National Specialty Advisory Committee with responsibility for ePortfolio 2006 - 2015*  
*Regional Specialist Advisor to RCP (Cardiovascular Medicine) 1996 - 2015*  
*Director of Undergraduate Teaching at CTC 1991-1998; continued work on student timetabling.*  
*RCP Examiner for PACES 2002-2012*  
*Examiner for both Finals and exams in the new Medical School Curriculum (c. six days annually).*  
*Member of Faculty Board and Board of Clinical Studies 1992- 2002*  
*Supervisor and Assessor for MD Theses, also occasional external examiner for other institutions.*

*I participated in the regular local MRCP Teaching and the regional MRCP Roadshow. I taught nurses studying for MSc in nursing who are regularly attached to my firm. Medical Student teaching during term time both at LHCH and during block teaching at the University. I teach junior doctors in the clinical arena.*

## **Research and Audit**

*Member of Primary Care Audit Group 1995-1998: mainly in the development of GP based protocols of management of Heart Failure in the Community*

*Collection of Interventional Data on behalf of BCIS 1989-2013*

*Assessor for NICE – technology assessment*

*Numerous in house Audits of performance*

*My main areas of research have been in intervention and coronary artery disease and also in the evaluation of LV diastolic function. I have collaborated closely with the research Lab Staff in establishing various assays in particular in evaluation of platelet function and markers of restenosis. The following paragraph expands on this and I have listed publications since becoming a consultant.*

*Assessment of diastolic left ventricular function including correlation of invasive and non-invasive measures and the effect of various stressors most recently isometric handgrip. The triggering of anginal events particularly in unstable angina and the role of platelet activity and inhalation of cold air. I have been involved in National Trials in coronary intervention including supervising the SOS Trial, the BRIT Study, PRESTO, CARISA and CHOICE 2000, also presently CARDIA, ACUITY, BBC-ONE and BCIS-1. I have also been an active participant in the RITA 2 Trial, COVERT Study, Freedom, Syntax 2, Complete, SACRED and HEAT-PPCI as well as a number of trials of therapeutic agents in angina and heart failure. I have supervised three further major projects in conjunction with my junior staff involving the scientific basis of restenosis in various clinical subgroups undergoing intervention, clinical measurements of diastolic dysfunction and coronary flow in composite grafting. I have funded three and supervised four research fellows (1991-present) all of whom have produced work suitable for submission for MD theses. I am active in his research and the interventional research of the unit. I have been a member of the R & D Strategy Group and the Research Grants Committee at CTC until 2000 and was involved in the establishment of the two CTC Senior Lecturer posts and the development of links with the University. I have overseen the collaboration of LHCH and Imperial College as our research partner*

## ***PUBLICATIONS - (Since Consultant Appointment)***

[Site-specific intravascular ultrasound analysis of remodelling index and calcified necrosis patterns reveals novel blueprints for coronary plaque instability.](#)

Murray SW, Patel B, Stables RH, **Perry RA**, Palmer ND.

Cardiovasc Diagn Ther. 2014 Aug;4(4):287-98. doi: 10.3978/j.issn.2223-3652.2014.07.0

□ [Unfractionated heparin versus bivalirudin in primary percutaneous coronary intervention \(HEAT-PPCI\): an open-label, single centre, randomised controlled trial.](#)

Shahzad A, Kemp I, Mars C, Wilson K, Roome C, Cooper R, Andron M, Appleby C, Fisher M, Khand A, Kunadian B, Mills JD, Morris JL, Morrison WL, Munir S, Palmer ND, **Perry RA**, Ramsdale DR, Velavan P, Stables RH; HEAT-PPCI trial investigators.

Lancet. 2014 Nov 22;384(9957):1849-58. doi: 10.1016/S0140-6736(14)60924-7. Epub 2014 Jul

[A randomized comparison of TR band and radistop hemostatic compression devices after transradial coronary intervention.](#) Rathore S, Stables RH, Pauriah M, Hakeem A, Mills JD, Palmer ND, Perry RA,

Morris JL. Catheter Cardiovasc Interv. 2010 Nov 1;76(5):660-7

[Impact of length and hydrophilic coating of the introducer sheath on radial artery spasm during transradial coronary intervention: a randomized study.](#) Rathore S, Stables RH, Pauriah M, Hakeem A,

Mills JD, Palmer ND, Perry RA, Morris JL. JACC Cardiovasc Interv. 2010 May;3(5):475-83

[The impact of diabetes mellitus on two-year mortality following contemporary percutaneous coronary intervention: implications for revascularization practice.](#) Andron M, Perry RA, Egred M, Alahmar AE,

Grayson AD, Shaw M, Roberts E, Palmer ND, Stables RH. J Interv Cardiol. 2009 Oct;22(5):420-6. Epub 2009 May 7.

[Lesion complexity and angiographic outcomes in radial access percutaneous coronary intervention.](#)

Roberts EB, Rathore S, Beaumont A, Alahmar AE, Andron M, Palmer ND, Perry RA, Stables RH. J Interv Cardiol. 2008 Dec;21(6):555-61. Epub 2008 Oct 21.

[The association of heart valve diseases with coronary artery dominance.](#) Morris GM, Innasimuthu AL,

Fox JP, Perry RA. J Heart Valve Dis. 2010 May;19(3):389-93.

[Circumstances and mode of in-hospital death following 9,914 consecutive patients undergoing percutaneous coronary interventions in the northwest of England.](#) Rathore S, Grayson AD, Sastry S, Gray

TP, Beynon R, Jackson M, Perry RA; North West Quality Improvement Programme in Cardiac Interventions (NWQIP). J Invasive Cardiol. 2008 Aug;20(8):386-90



[Alchaghouri S, Wong KY, Perry RA, Ramsdale DR, Somauroo JD, Pyatt JR.](#)

*QT peak prolongation is not associated with left ventricular hypertrophy in teenage professional football players.*

Ann Noninvasive Electrocardiol. 2007 Apr;12(2):104-10.

PMID: 17593178 [PubMed - indexed for MEDLINE]



[Aziz S, Stables RH, Grayson AD, Perry RA, Ramsdale DR.](#)

*Percutaneous coronary intervention for chronic total occlusions: improved survival for patients with successful revascularization compared to a failed procedure.*

Catheter Cardiovasc Interv. 2007 Jul 1;70(1):15-20.

PMID: 17580364 [PubMed - indexed for MEDLINE]



[Aziz S, Morris JL, Perry RA, Stables RH.](#)

*Stent expansion -A failure to deliver: A combination of delivery balloon under-expansion and acute stent recoil reduces predicted stent diameter irrespective of reference vessel size.*

Heart. 2007 May 4; [Epub ahead of print]

PMID: 17483130 [PubMed - as supplied by publisher]



[Innasimuthu AL, Perry RA.](#)

*An abnormal finding in an angiogram.*

*Acute Card Care.* 2007;9(1):62.

PMID: 17453542 [PubMed - indexed for MEDLINE]



[Aziz S, Morris JL, Perry RA.](#)

*Late stent thrombosis associated with coronary aneurysm formation after sirolimus-eluting stent implantation.*

*J Invasive Cardiol.* 2007 Apr;19(4):E96-8.

PMID: 17404416 [PubMed - indexed for MEDLINE]



[Roberts EB, Palmer N, Perry RA.](#)

*Translunar access for coronary angiography and intervention: an early review to guide research and clinical practice.*

*J Invasive Cardiol.* 2007 Feb;19(2):83-7. Review.

PMID: 17268043 [PubMed - indexed for MEDLINE]

[Moore RK, Lowe R, Grayson AD, Morris JL, Perry RA, Stables RH.](#)

*A study comparing the incidence and predictors of creatine kinase MB and troponin T release after coronary angioplasty. Does Clopidogrel preloading reduce myocardial necrosis following elective percutaneous coronary intervention?*

*Int J Cardiol.* 2007 Mar 2;116(1):93-7. Epub 2006 Jul 25.

PMID: 16870281 [PubMed - indexed for MEDLINE]

[Rathore S, Jackson M, Perry RA.](#)

*Circumstances and mode of in-hospital death in 5750 consecutive patients undergoing percutaneous transluminal coronary angioplasty.*

*Int J Cardiol.* 2005 Nov 19; [Epub ahead of print] No abstract available.

PMID: 16303190 [PubMed - as supplied by publisher]

[Lowe R, Hammond C, Perry RA.](#)

*Prior CABG does not prevent pericardial tamponade following saphenous vein graft perforation associated with angioplasty.*

*Heart.* 2005 Aug;91(8):1052. No abstract available.

PMID: 16020595 [PubMed - indexed for MEDLINE]

[Bagust A, Grayson AD, Palmer ND, Perry RA, Walley T.](#)

*Cost effectiveness of drug eluting coronary artery stenting in a UK setting: cost-utility study.*

*Heart.* 2006 Jan;92(1):68-74. Epub 2005 Apr 14.

PMID: 15831599 [PubMed - indexed for MEDLINE]

[Srinivasan AK, Oo AY, Grayson AD, Lowe R, Perry RA, Fabri BM, Rashid A.](#)

Related Articles,  Links

*Mid-term survival after cardiac surgery in elderly patients: analysis of predictors for increased*



mortality.

*Interact Cardiovasc Thorac Surg.* 2004 Jun;3(2):289-93.

PMID: 17670240 [PubMed]

[Palmer ND, Causer JP, Ramsdale DR, Perry RA.](#)

*Effect of completeness of revascularization on clinical outcome in patients with multivessel disease presenting with unstable angina who undergo percutaneous coronary intervention.*

*J Invasive Cardiol.* 2004 Apr;16(4):185-8.

PMID: 15152143 [PubMed - indexed for MEDLINE]

[Mushahwar SS, Pyatt JR, Lowe R, Morrison WL, Perry RA, Ramsdale DR.](#)

*Clinical outcomes of long coronary stents: a single-center experience.*

*Int J Cardiovasc Intervent.* 2001 Mar;4(1):29-33.

PMID: 12431337 [PubMed - as supplied by publisher]

[Somauroo JD, Pyatt JR, Jackson M, Perry RA, Ramsdale DR.](#)

*An echocardiographic assessment of cardiac morphology and common ECG findings in teenage professional soccer players: reference ranges for use in screening.*

*Heart.* 2001 Jun;85(6):649-54.

PMID: 11359746 [PubMed - indexed for MEDLINE]

[Osula S, Lowe R, Perry RA.](#)

*Cardiac rupture caused by Staphylococcus aureus septicaemia and pericarditis: an incidental finding.*

*Heart.* 2001 Mar;85(3):E4.

PMID: 11179283 [PubMed - indexed for MEDLINE]

[Hammond C, Causer JP, Perry RA.](#)

*Intracoronary ultrasound.*

*Postgrad Med J.* 1998 Aug;74(874):468-72. Review.

PMID: 9926120 [PubMed - indexed for MEDLINE]

[Virk SJ, Edmunds E, Perry RA.](#)

*Setting up a heart emergency centre.*

*Postgrad Med J.* 1997 Dec;73(866):794-7.

PMID: 9497948 [PubMed - indexed for MEDLINE]

[Virk SJ, Bellamy CM, Perry RA.](#)

[Related Articles,](#)  [Links](#)

*Transluminal extraction atherectomy for stent restenosis in a saphenous vein bypass graft.*

*Eur Heart J.* 1997 Feb;18(2):350-1. No abstract available.

PMID: 9043856 [PubMed - indexed for MEDLINE]

[Dodds PA, Bellamy CM, Muirhead RA, Perry RA.](#)

*Vasoconstrictor peptides and cold intolerance in patients with stable angina pectoris.*

*Br Heart J.* 1995 Jan;73(1):25-31.

PMID: 7888256 [PubMed - indexed for MEDLINE]

[Bellamy CM, Dodds PA, Grech ED, Robotham KF, Faragher EB, Fox MA, Fabri BM, Perry RA.](#)

*Transmitral Doppler assessment of left ventricular diastolic function during coronary artery bypass surgery.*

*Presse Med.* 1994 Apr 23;23(16):747-54. Review.

PMID: 8078825 [PubMed - indexed for MEDLINE]

[Grech ED, Jack CI, Bleasdale C, Jackson MJ, Baines M, Faragher EB, Hind CR, Perry RA.](#)

*Differential free-radical activity after successful and unsuccessful thrombolytic reperfusion in acute myocardial infarction.*

*Coron Artery Dis.* 1993 Sep;4(9):769-74.

Grech ED, Dodd NJ, Bellamy CM, Morrison WL, Ramsdale DR, Perry RA

*Free-radical generation during angioplasty reperfusion for acute myocardial infarction.*

*Lancet.* 1993 Apr 17;341(8851):990-1.

PMID: 8096946 [PubMed - indexed for MEDLINE]

D: 8287210 [PubMed - indexed for MEDLINE]

[Grech ED, Dodds PA, Perry RA.](#)

*Delayed complications after myocardial contusion.*

*Br Heart J.* 1992 Nov;68(5):529-30.

*I have published several reviews including the topics of PTMC, Stress Echocardiography, treatments of Heart Failure and Coronary Intervention*

*In addition I have supervised the presentation of several abstracts to local, national and international meetings in all over 50 abstracts.*

*I have also written and subsequently edited the cardiovascular chapter in Symptoms and Signs in Clinical Medicine – Ogilvie & Evans (7<sup>th</sup> Ed).*

*I wrote (and recently rewrote/edited) the chapter on the Barath Cutting Balloon for A handbook of Interventional cardiology- Editors Perrins and Norell*

*I am a regular faculty member at various national meeting on coronary intervention and give several invited lectures and presentation*

### ***Other Committees/Activities***

*Regional Thrombolysis Committee 1992-1995*

*British Cardiovascular Intervention Society Audit Group: regional collector of all audit data relating to interventional procedures and involvement in establishing the most efficient method of National data collection.*

*Collection of Monthly data for National CEPOD*

### ***Medico Legal Work***

*I have extensive experience in medico legal work. I have produced in excess of 800 reports for legal bodies and the courts. I have a balanced split of work for plaintiff and defendant and have produced single joint reports and joint reports with other experts. I have had training in appearing as an expert witness with APIL, Bond Solon and Specialistinfo. I have appeared in court as an expert witness on several occasions both for plaintiff and defendant. I am registered with a number of agencies including Expert Witness, Your Expert Witness, MDL Ltd and APIL.*

### **PREVIOUS POSTS (POST MRCP)**

**BRITISH HEART FOUNDATION RESEARCH FELLOW; UNIVERSITY DEPARTMENT OF CARDIOVASCULAR MEDICINE, QUEEN ELIZABETH HOSPITAL, BIRMINGHAM**

*March 85 – September 88*

*The Heart foundation grant was awarded to utilise the establish model of myocardial ischaemia for further investigation in ventricular wall motion abnormalities during coronary angioplasty and to evaluate the relationship between anginal symptoms and myocardial dysfunction. The differences in the changes of coronary flow, metabolism and wall motion abnormalities between patients experiencing pain during balloon occlusion and those who have no pain have been studied. This appointment at the University Hospital combined experienced invasive and non-invasive clinical cardiology in a Regional Cardiothoracic referral centre with some 50% of the time engaged in clinical orientated research under the supervision of Dr. Shiu. Clinical work was undertaken for all the Consultant Staff.*

**SENIOR REGISTRAR IN CARDIOVASCULAR MEDICINE : MERSEY REGIONAL HEALTH AUTHORITY**

*October 88 – 1990*

*This was a four-year training post leading to full accreditation in Cardiology and general Medicine. The majority of the time is spent at the Regional Cardiothoracic Unit with training in all aspects of tertiary centre cardiology*

