

Curriculum Vitae

**Dr Glyn Thomas MBBS;
MRCP; PhD**

Consultant Cardiac Electrophysiologist
Bristol Heart Institute
&
Honorary Research Fellow
University of Bristol

July 2010

Dr Glyn Thomas MBBS MRCP PhD

Education & Qualifications

2009	CCST in Cardiology, NE Thames Deanery, London
2006	PhD, Gonville & Caius College, University of Cambridge
2001	MRCP(UK), Royal College of Physicians, London
1997	MB BS, University College London Medical School
1984 - 1991	Standish Community High School, Wigan, Lancashire

Awards, Prizes and Distinctions

2009	Winner, Bright Ideas Innovation Competition, University Hospitals Bristol NHS Trust
2006	<i>Winner</i> , Young Investigator Award, Heart Rhythm UK Congress, Birmingham
2006	<i>Winner</i> , Young Investigator Award, (Basic Science), British Junior Cardiologists Association-Cordis, International Research Awards, London
2006	<i>Winner</i> , 'Engage Us' Science-Writing Competition, British Heart Foundation
2005	Finalist, Young Investigator Award, Heart Rhythm UK Intervention, London
2003	British Heart Foundation Clinical PhD Fellowship, University of Cambridge
2002 & 2003	Medical Directorate 'Grand Round' Prize, Newham University Hospital NHS Trust
1996	Sir Thomas Lewis MBBS Prize in Cardiology, UCL Medical School
1996	Howard Murray and F.M.R Walshe Prize in Neurology, UCL Medical School
1995	Harveian Society, Joseph Lister Boyd Academic Scholarship, UCL Medical School
1995	Amulree and Slater Academic Scholarship, UCL Medical School
1994	Certificate of Distinction in 2 nd MB Examinations, UCL Medical School

Present Appointment

Sept '09 **Consultant Cardiac Electrophysiologist**
Bristol Heart Institute

I am trained in all aspects of cardiac arrhythmia management including catheter ablation, pacemaker/defibrillator implantation, cardiac resynchronisation therapy and system extraction. My specialist interest is ablation of complex arrhythmias especially atrial fibrillation and ventricular tachycardia. The Bristol Heart Institute is now fully equipped with the necessary 3D electroanatomic mapping systems (Carto XP & NavX Velocity) to undertake such procedures.

Previous Appointments

- Oct '06-Aug '09 **Specialist Registrar in Cardiology / Cardiac Electrophysiology**
St Bartholomew's Hospital, London,
*Dr D Abrams, Dr M Dhinoja, Dr MJ Earley, Dr AW Nathan,
Dr S Sporton, Professor R J Schilling*
- Oct '03- Oct '06 **British Heart Foundation Research Fellow in Cardiac Electrophysiology**
Department of Biochemistry, University of Cambridge
Professor C-L Huang, Dr A A Grace
- Oct '03 - Oct'06 **Honorary Specialist Registrar in Cardiology**
Addenbrookes Hospital, Cambridge
Professor P Weissberg, Professor M Bennett, Dr L Shapiro, Dr P Schofield
- Apr '02- Oct '03 **Specialist Registrar in Cardiology/General (Internal) Medicine**
Newham University Hospital NHS Trust
Professor A D Timmis, Dr K Randandalayan
- Nov '01-Apr '02 **Specialist Registrar in Cardiology / Clinical Pharmacology**
Hammersmith Hospitals NHS Trust, Hammersmith Hospital
Professor R J C Hall, Professor M R Wilkins, Dr D Lefroy
- Aug '01-Nov '01 **Senior House Officer, Intensive Therapy Unit**
St Mary's Hospital NHS Trust
Dr R Leonard, Dr M Price, Dr J Jones
- Jan '01-Aug '01 **Global Equity Analyst (Medical Devices / Pharmaceuticals)**
Clerical-Medical Investment Management, Old Broad Street, London
Mr R O'Connor, Mr P Williams
- Aug '00-Dec '00 **Senior House Officer, Respiratory Medicine**
Hammersmith Hospital NHS Trust, Charing Cross Hospital
Professor T Seed, Dr F Bowen, Dr A Cummin
- Feb '00-Aug '00 **Senior House Officer, Cardiology / Emergency Medicine**
Hammersmith Hospitals NHS Trust, Hammersmith Hospital
Professor R J C Hall, Dr D Lefroy, Dr K O'Kane
- Aug '99-Feb '00 **Senior House Officer, Renal Medicine / HDU**
Guy's & St. Thomas' NHS Trust, Guy's Hospital, London
Professor D G Williams, Professor S Sachs, Dr I Abbs, Dr J Pattison
- April '99-Aug '99 **Senior House Officer, Cardiology**
Royal Brompton & Harefield NHS Trust, Harefield Hospital
Dr A G Mitchell, Dr V Paul, Dr C Ilsley
- Dec '98-Apr '99 **Senior House Officer, General Medicine / Cardiology**
The Hillingdon Hospital, Uxbridge, Middlesex
Dr S W Dubrey, Dr R Grocott-Mason
- Aug '98-Dec '98 **Senior House Officer, General Medicine / Endocrinology**
The Hillingdon Hospital, Uxbridge, Middlesex
Dr R M Hillson
- Feb '98-Aug '98 **House Officer, General Surgery**

Dr Glyn Thomas MBBS MRCP PhD

Luton & Dunstable Hospital
Mr R Novell

Aug '97-Feb '98

House Officer, General Medicine
Queen Elizabeth II Hospital, Welwyn Garden City
Dr P H Winocour

Publications

Books

Thomas G, Grace AA, Schofield PM. *Cardiology in Focus*. Churchill Livingstone (2004)
ISBN-10: 0443074232

Lyon A, **Thomas G**, Cobb VJ, Mayet J. *Ready Reference: Cardiology*. Elsevier (2010) (In press)

Journal Articles

French A, Cripps TC, Sandilands A, **Thomas G**, Pitts-Crick JC. Artfactual appearance of Brugada ECG due to inappropriate filter settings. *PACE* (In press).

Sawhney V, **Thomas G**, Webster P, Liew R, Schilling RJ. Resolution of Brugada-pattern ECG following withdrawal of the selective serotonin reuptake inhibitor paroxetine. *Heart* (2010). (In press).

A prospective comparison of echocardiography and device algorithms for atrioventricular and interventricular interval optimization in cardiac resynchronization therapy. Kamdar R, Frain E, Warburton F, Richmond L, Mullan V, Berriman T, **Thomas G**, Tenkorang J, Dhinoja M, Earley M, Sporton S, Schilling R. *Europace*. 2010 Jan;12(1):84-91

Validation of a classification system to grade fractionation in atrial fibrillation and correlation with automated detection systems. Hunter RJ, Diab I, **Thomas G**, Duncan E, Abrams D, Dhinoja M, Sporton S, Earley MJ, Schilling RJ. *Europace*. 2009 Dec;11(12):1587-96.

Uninterrupted Warfarin for Periprocedural Anticoagulation in Catheter Ablation of Typical Atrial Flutter: A Safe and Cost-Effective Strategy. Finlay M, Sawhney V, Schilling R, **Thomas G**, Duncan E, Hunter R, Viridi G, Abrams D, Sporton S, Dhinoja M, Earley M. *J Cardiovasc Electrophysiol*. 2009.

Empirical correlation of triggered activity and spatial and temporal re-entrant substrates with arrhythmogenicity in a murine model for Jervell and Lange-Nielsen syndrome. Hothi SS, **Thomas G**, Killeen MJ, Grace AA, Huang CL. *Pflugers Arch*. 2009 Sep;458(5):819-35.

A randomized-controlled trial comparing conventional with minimal catheter approaches for the mapping and ablation of regular supraventricular tachycardias. Liew R, Baker V, Richmond L, Rajappan K, Gupta D, Finlay M, **Thomas G**, Earley M, Sporton S, Harris S, Schilling R. *Europace*. 2009 Aug;11(8):1057-64.

A randomized trial to compare atrial fibrillation ablation using a steerable vs. a non-steerable sheath. Rajappan K, Baker V, Richmond L, Kistler PM, **Thomas G**, Redpath C, Sporton SC, Earley MJ, Harris S, Schilling RJ. *Europace*. 2009 May;11(5):571-5.

Berriman TJ, Hunter R, **Thomas G**, Kamdar R, Richmond L, Baker V, Dhinoja, M, Abrams D, Earley MJ, Sporton S, Schilling RJ. Results of long term follow up after catheter ablation of atrial fibrillation. *Heart* (2009). In press.

Rajappan K, Kistler PM, Earley MJ, **Thomas G**, Izquierdo M, Sporton SC, Schilling RJ. Acute and chronic pulmonary vein reconnection after atrial fibrillation ablation: a prospective characterization of anatomical sites. *Pacing Clin Electrophysiol*. 2008;31:1598-605.

Richmond L, Rajappan K, Voth E, Rangavajhala V, Earley MJ, **Thomas G**, Harris S, Sporton SC, Schilling RJ. Validation of computed tomography image integration into the EnSite NavX mapping system to perform catheter ablation of atrial fibrillation. *J Cardiovasc Electrophysiol*. 2008;19:821-7.

Killeen MJ, **Thomas G**, Sabir IN, Grace AA, Huang CL. Mouse models of human arrhythmia syndromes. *Acta Physiol (Oxf)*. 2008;192:455-69

Killeen MJ, **Thomas G**, Olesen SP, Demnitz J, Stokoe KS, Grace AA, Huang CL. Effects of potassium channel openers in the isolated perfused hypokalaemic murine heart. *Acta Physiol (Oxf)*. 2008;193:25-36.

Thomas G, Killeen MJ, Grace AA, Huang CL. Pharmacological separation of early afterdepolarizations from arrhythmogenic substrate in DeltaK¹⁰⁰ Scn5a murine hearts modelling human long QT 3 syndrome. *Acta Physiol (Oxf)*. 2008;192:505-17.

Killeen MJ, Gurung IS, **Thomas G**, Stokoe KS, Grace AA, Huang CL. Separation of early afterdepolarizations from arrhythmogenic substrate in the isolated perfused hypokalaemic murine heart through modifiers of calcium homeostasis. *Acta Physiol (Oxf)*. 2007;191:43-58.

Sabir IN, Killeen MJ, Goddard CA, **Thomas G**, Gray S, Grace AA, Huang CL. Transient alterations in transmural repolarization gradients and arrhythmogenicity in hypokalaemic Langendorff-perfused murine hearts. *J Physiol*. 2007;581:277-89.

Killeen MJ, **Thomas G**, Gurung IS, Goddard CA, Colledge W, Fraser JA, Mahut-Smith MP, Grace AA, Huang CL-H. Arrhythmogenic mechanisms in the isolated perfused hypokalaemic murine heart. *Acta Physiol* 2007 189(1):33-46.

Thomas G, Killeen MJ, Goddard CA, Colledge W, Grace AA, Huang C L-H. Mechanisms of ventricular arrhythmogenesis in mice following targeted disruption KCNE1 modelling Long QT 5. *Journal of Physiol* 2007 578(1):99-114.

Thomas G, Gurung IS, Killeen M, Goddard CA, Colledge W, Grace AA, Huang C L-H Effects of L-type Ca²⁺ channel antagonism on ventricular arrhythmogenesis in murine hearts containing a modification in the Scn5a gene modelling human long QT syndrome 3. *Journal of Physiol* 2007 578(1):85-97.

Stokoe K, **Thomas G**, Goddard CA, Colledge W, Grace AA, Huang CL-H. (2006). Effects of flecainide and quinidine on arrhythmogenic properties of Scn5a+/ Δ murine hearts modelling long QT(3) syndrome. *Journal of Physiol* 2007 578(1):69-84.

Head CE, Balasubramaniam R, **Thomas G**, Goddard CA, Lei M, Colledge WH, Grace, Huang CL-H. Paced Electrogram Fractionation Analysis of Arrhythmogenic Tendency in Δ K¹⁰⁰ Scn5a Mice. *Journal of Cardiovascular Electrophysiology* 2005. 16(12): p. 1329-1340.

Thomas G, Hillson RM. A complicated case of Von Hippel-Lindau disease. *Postgraduate Medical Journal* 2001;77:471.

Thomas G, Winocour PH. False diagnosis of a catecholamine-secreting tumour in a patient with hypertension and depression. *Hospital Medicine* 2000;69(3):576-577.

Tahir H, **Thomas G**, Sheerin N *et al*. Successful medical treatment of acute bilateral emphysematous pyelonephritis. *American Journal of Kidney Diseases* 2000;36(6):1267-70.

Dr Glyn Thomas MBBS MRCP PhD

Mason MJ, Carey P, Patel DJ, Babu-Narayan S, Brant S, Nicholson J, **Thomas G**, Paul V, Illsley CDJ. Intervention does not influence prognosis of patients with recurrent symptoms after coronary artery bypass surgery. *Circulation Suppl* 1999;100(18):594.

Recent Poster and Abstract Presentations

Thomas G, Duncan E, Sawhney V, Sekhri N, Junghans C, Watts TM, Ezzat V, Finlay M, Appanna G, Rajappan K, Earley MJ, Abrams D, Dhinoja M, Sporton SC, Schilling RJ. Catheter ablation of ventricular tachycardia in structurally abnormal hearts: Results of an incremental strategy to produce good long term results. *BCS*, London 2009.

Thomas G, Whittingham-Jones S, Appanna G, Sawhney V, Duncan E, Findlay M, Watts T, Sporton S, Schilling RJ. Extraction of infected rhythm devices, a single centre experience over 5 years. *ECAS*, Paris 2009

Finlay M, Sawhney V, Richmond L, Liew R, **Thomas G**, Tenkorang J, Henderson L, Baker V, Sporton SC, Dhinoja M, Abrams D, Schilling RJ, Earley MJ. Change of periprocedural anticoagulation protocol to warfarin in catheter ablation of atrial flutter; a prospective audit. *ECAS*, Paris 2009

A Randomised comparison of cartomerge versus NAVX fusion in catheter ablation of atrial fibrillation. Finlay M, Richmond L, Rajappan K, Earley M, **Thomas G**, Baker V, Dhinoja M, Sporton S, Schilling RJ. *ECAS*, Paris 2009

Comparison of echocardiography and device algorithms for atrioventricular (AV) and interventricular (VV) interval optimisation in Cardiac Resynchronization Therapy (CRT). Kamdar R, Frain E, Richmond L, Berriman TJ, **Thomas G**, Tenkorang J, Dhinoja M, Earley MJ, Sporton SC, Schilling RJ. *William Harvey Day*, London 2008.

Pilot data for a randomised control trial of catheter ablation versus medical therapy in the treatment of atrial fibrillation in heart failure patients. Berriman TJ, Rajappan K, **Thomas G**, Redpath C, Kamdar R, Baker V, Richmond L, Gupta D, Harris SJ, Earley MJ, Sporton SC, Schilling RJ. *BCS* 2008

Catheter Ablation of Ventricular Tachycardia: A Single Centre Experience of 71 Consecutive Cases. Sawhney V, **Thomas G**, Ezzat V, Liew R, Finlay M, Tenkorang J, Earley MJ, Abrams D, Dhinoja M, Sporton SC, Schilling RJ. *William Harvey Day*, London 2008.

Liew R, Baker V, Richmond L, Rajappan K, Gupta D, **Thomas G**, Redpath C, Earley MJ, Harris S, Sporton SC, Schilling RJ. Comparison of conventional with minimal catheter approaches for the mapping and ablation of cardiac arrhythmias; A randomised control trial. *HRS*, Birmingham 2007

Thomas G, Killeen M, Balasubramaniam R *et al* Propranolol suppresses triggered activity but increases transmural dispersion of repolarization in Δ KPQ *Scn5a* (Long QT 3) mouse hearts.

Scientific Sessions, American Heart Association, Dallas 2005

Thomas G, Arrhythmogenic effects of Beta-adrenergic modulation in a transgenic model of Long QT Syndrome, *HRUK Intervention*, London 2005

Research

Basic Science

I was awarded a BHF Clinical Fellowship to fund my research in membrane biophysics based at the Department of Biochemistry, University of Cambridge. I developed a novel method of recording simultaneous endocardial and epicardial, left ventricular, monophasic action potentials in Langendorff-perfused, transgenic murine models of human arrhythmia syndromes (LQT3, LQT5, Brugada Syndrome and CPVT). I was awarded two Young Investigator prizes and all chapters of the subsequent PhD thesis were published in the

Dr Glyn Thomas MBBS MRCP PhD

scientific press. I am now an Honorary Research Fellow, Department of Physiology and Pharmacology, University of Bristol.

Other Interests

- Mountaineering (Founded Bristol Heart Institute Climbing Club), running, cycling, tennis
- Fishing
- Guitar