





The Institute of  
Cardiovascular  
Medicine and Science

Royal Brompton & Harefield   
NHS Foundation Trust

Imperial College  
London

Liverpool Heart and Chest Hospital   
NHS Foundation Trust



## Mission

To improve outcomes in cardiovascular medicine.

## Vision

By 2016, we will have become a world leader in cardiovascular research, improving patient outcomes through advances in prevention, diagnosis and treatment.

## Foreword

I am delighted to chair the new Institute of Cardiovascular Medicine and Science. Such an organisation, created by drawing on internationally renowned leaders and pooling the resources of two leading cardiothoracic centres and a cutting-edge university, has the real potential to make a major contribution to the diagnosis, treatment and management of cardiovascular disease, a vital area of medicine. I very much welcome the opportunity to work with colleagues at Royal Brompton & Harefield NHS Foundation Trust, Liverpool Heart and Chest Hospital NHS Foundation Trust and Imperial College .

**Dame Carol Black**

## Introduction

### We are very pleased to introduce the Institute of Cardiovascular Medicine and Science.

The underlying philosophy for the Institute is that it will be 'academically led' but 'clinically driven'. It provides an exciting opportunity to pool the expertise of cardiovascular clinicians from two major centres together with international leaders in the field of cardiovascular medicine, to head up our ambitions.

As a result, we will be able to both further the education and training of the next generation of specialists in cardiovascular medicine by enabling them to undertake ground breaking research and educating each other in best practice. This research will provide us with the benefits of doing things differently and we can use those findings to develop new and improved services.

We are very proud to be the first Institute of its kind in Europe, and we look forward to working to deliver better patient outcomes through advances in the diagnosis, management and treatment of cardiovascular disease.

#### Rajesh Jain

Chief Executive, Liverpool Heart and Chest Hospital NHS Foundation Trust

#### Robert J. Bell

Chief Executive, Royal Brompton & Harefield NHS Foundation Trust

## About us

The Institute of Cardiovascular Medicine and Science (ICMS) is a world-class body drawing on the combined clinical expertise of its founding partners, Royal Brompton & Harefield NHS Foundation Trust (RB&HFT) and Liverpool Heart and Chest Hospital NHS Foundation Trust (LHCH).

Supported by our academic partner Imperial College London, the Institute is the first of its kind in Europe, delivering clinical research programmes that translate directly into clinical practice.

Our research aims to improve outcomes for patients with coronary heart disease, heart failure, arrhythmia, congenital and inherited heart disease, and diseases of the aorta and valves. We are developing research to deliver the best possible patient health, through advances in diagnosis, management and treatment.

Attracting international leaders in the field, the ICMS will also enable clinical staff to have access to education and training that is at the forefront of innovation in the delivery of cardiovascular care.

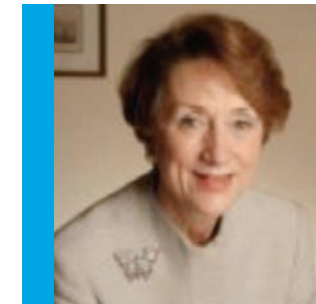
The findings from the research programmes will enable us to improve our existing services and develop new services.

The research, education and service development programmes delivered by the ICMS will directly influence the way future cardiovascular services develop for the direct benefit of our patients.

## Governance

The ICMS is governed by our main Institute Board which steers and oversees the longer-term strategic direction of the Institute.

### Main Board



#### Professor Dame Carol Black, **Chair**

Dame Carol is National Director for Health and Work at the Department of Health, chair of the Academy of Medical Royal Colleges and chair of the Nuffield Trust. She is a past president of the Royal College of Physicians and was awarded a CBE for her work on systemic sclerosis in 2002 and a DBE for her services to medicine.

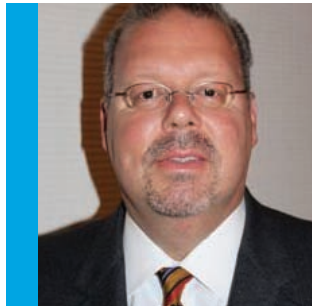


#### Professor Sir Anthony Newman Taylor

Anthony Newman Taylor took up appointment as Principal of the Faculty of Medicine on 1 December 2010, having previously held the position of Deputy Principal for the Faculty since 2008. He is also head of the department of Occupational and Environmental Medicine in Imperial College. Professor Newman Taylor was, until January 2008, chairman of an expert scientific advisory committee to the government (the Industrial Injuries Council).



## Main Board



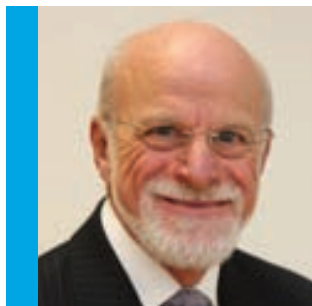
### Christopher H. Colecchi

Professor Colecchi is Managing Director of Broadview Ventures, a Boston based philanthropic venture fund dedicated to accelerating the development of cures for cardiovascular disease through investment in research bodies both in the US and Europe. Chris is a current board member of both the Harvard Clinical Research Institute and the Massachusetts Association for Mental Health.



### Richard Hunting

Mr Hunting is a Non-Executive Director on the Board of Royal Brompton & Harefield NHS Foundation Trust. He is chairman of Hunting PLC, the international oil services company. He is also chairman of CORDA Charity preventing heart disease and stroke, a court member of the Ironmongers' Company, one of the 12 principal livery companies of the City of London; and chairman of The Battle of Britain Memorial Trust.



### Dr David Bricknell

Dr Bricknell was a Group Legal & Personnel Director and Company Secretary for Hekett Multiserve plc and also held the position of Group Legal Advisor and Company Secretary at Pilkington plc. He holds a Directorship at The World of Glass (St Helens) and has spoken at external conferences on legal and glass industry matters. David is a Master in Research and PhD in strategic decision making and is also a Solicitor. David was the Base Camp Manager of the British Everest Expedition in 1985.

## Main Board



### Robert J. Bell, Chief Executive:

**Royal Brompton & Harefield NHS Foundation Trust**

Mr Bell joined the Trust as Chief Executive in 2005, from the William Osler Health Centre, Ontario, Canada, where he was President and Chief Executive Officer. He has had over 30 years' international experience in hospital and health services management.



### Rajesh Jain, Chief Executive:

**Liverpool Heart and Chest Hospital NHS Foundation Trust**

Mr Jain was appointed Chief Executive at Liverpool Heart and Chest Hospital in April 2008. He was a former Executive Director at Salford Royal Foundation Trust since January 2003 where he was responsible for Workforce and Service Improvement and a former Foundation Trust Project Director at Salford Royal Foundation Trust.

## Executive Committee



### Professor Kim Fox, Chair

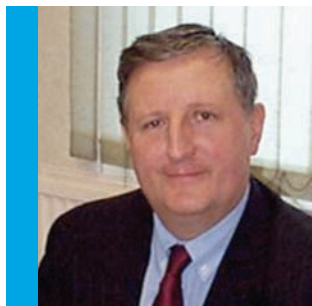
Professor Fox is a Consultant Cardiologist at Royal Brompton & Harefield NHS Foundation Trust and Professor of Clinical Cardiology, Imperial College London. He is the acknowledged European expert in the treatment of angina and has published over 400 papers in leading scientific journals. He has played a major role in many important international clinical trials (EUROPA, HPS, ASCOT, BEAUTIFUL) that have revolutionised the treatment of this condition. Professor Fox was a past president of the European Society of Cardiology and was appointed head of Imperial College London's National Heart and Lung Institute in September 2011.

## Executive Committee



### Dr Rod Stables, Co-Chair of the Executive Committee

Dr Rod Stables proposed the original concept of the ICMS alliance and worked with Prof Kim Fox to develop the project. Dr Stables has an international standing for practice and research in interventional cardiology. He founded the Clinical Trials and Evaluation Unit at the Royal Brompton Hospital and led its initial flagship ventures. His main research interests remain focused on the design, planning and reporting of clinical trials and other forms of outcomes analysis. His clinical interests include coronary and non-coronary Intervention. He is a past council member of the British Cardiovascular Interventional Society and serves on the National committees guiding research development and outcomes analysis in interventional cardiology.



### Professor John Pepper

Professor Pepper is a Consultant Surgeon at Royal Brompton & Harefield NHS Foundation Trust and Professor of Cardiothoracics, Imperial College. He has a major interest in the aortic valve and surgical procedures for heart failure and has published over 370 papers in peer reviewed journals. He has been closely involved several major international trials in aortic valve replacement and coronary artery surgery that have had a significant impact on surgical practice. A novel prophylactic operation for Marfan Syndrome has been developed under his surgical leadership.



### Dr Jay Wright

Dr Wright is a Consultant Cardiologist at Liverpool Heart and Chest Hospital. He is clinical lead for heart failure and device therapy and holds the position of National Mentor for cardiac resynchronisation therapy with the National Technology Adoption Centre (NTAC). A major part of his clinical work relates to quality assurance and he is currently the lead clinician for device complication data collection and analysis with the Central Cardiac Audit Database (CCAD). He is also sits on the competency assessment panel for the European Heart Rhythm Association (EHRA). His research interests reflect his clinical practice and he is the regional specialist group lead for cardiovascular studies on the Comprehensive Local Research Network (CLRN).

## Executive Committee



### Professor Dudley Pennell

Professor Pennell is Director of the Cardiovascular Magnetic Resonance Unit at Royal Brompton & Harefield NHS Foundation Trust where he spearheads a major international project to introduce cardiovascular magnetic resonance (CMR) techniques worldwide. Professor Pennell is also Director of the cardiovascular Biomedical Research Unit (BRU) at Royal Brompton – a joint initiative with Imperial College which is funded by the National Institute of Health Research.



### Dr Derick Todd (Co-opted Member)

Dr Todd is a Consultant Cardiologist at Liverpool Heart and Chest Hospital and is an expert in heart rhythm management. His main areas of interest are ablation and research into atrial fibrillation and specifically outcome data for patients undergoing ablation. This compares ablation strategies with different drugs, to determine the most cost-effective ways of improving the patient's quality of life when they suffer with this condition.



### Dr Mark Field (Co-opted Member)

Dr Mark Field is a Cardiac Surgeon at Liverpool Heart and Chest Hospital and one of three surgeons providing a sub-specialised thoracic aortic aneurysm service. He has a strong background in basic sciences research with a DPhil from the University of Oxford in Biochemistry. His main research interests are in aneurysmal diseases of the aorta and he has a number of international research collaborations relating to the aortic disease. Specific interests include: blunt traumatic aortic rupture, connective tissue disorders including Marfan Syndrome, risk prediction modelling, cost effectiveness and measuring quality.

## Visiting Professors



### Professor Patrick W Serruys

Professor Serruys is Chief of Interventional Cardiology at the Thoraxcentre and Professor of Medicine at Erasmus University, Rotterdam. He is an expert in interventional cardiology and percutaneous coronary interventions, and has published over 1700 articles and book chapters. Professor Serruys is deputy editor of the European Heart Journal and serves on editorial boards for the International Journal of Clinical Practice and American Journal of Cardiovascular Disease. He has received numerous awards in his field of expertise, including a Lifetime Achievement Award conferred in 2011 by the American College of Cardiology.



### Professor John Camm

Professor Camm is Professor of Clinical Cardiology at St Georges, University of London. He is a world renowned clinical trialist and has a particular interest in clinical cardiac electrophysiology, cardiac arrhythmias and implantable devices for rhythm control. Professor Camm is editor in chief of Europace, and serves on the editorial boards of a further 15 journals. He is the current president of the Arrhythmia Alliance and is a trustee of the Atrial Fibrillation Association, the Drug Safety Research Unit, the American College of Cardiology and the Interventional Cardiac Pacing and Electrophysiology Society.



### Professor Karl Swedberg

Professor Swedberg is Professor of Medicine and Head of the Department of Emergency and Cardiovascular Medicine, Sahlgrenska Academy, University of Gothenburg and senior physician, department of Medicine, Sahlgrenska University Hospital/Östra, Göteborg, Sweden. He started training in cardiology in 1974 and his research was initiated with the effects of beta-blockers in dilated cardiomyopathy. He received his PhD in this area in 1978. The first report on beneficial effects on survival of a beta-blocker in heart failure was published in 1979. He was the first to report on survival benefits of a beta-blocker (1979), ACE-inhibitor (1987) and angiotensinreceptor blocker (2003) in chronic heart failure. He has published widely in international journals with more than 320 original research papers out of a total of more than 500 manuscripts.

## Visiting Professors



### Professor Anthony Estrera

Professor Estrera is Chief of Cardiac Surgery at Memorial Hermann Hospital and Professor of Cardiothoracic and Vascular Surgery at the University of Texas, Houston. Professor Estrera is a leading expert in cardiothoracic and vascular surgery. He is a fellow of the American College of Surgeons, and an affiliate of the American College of Chest Physicians and American College of Cardiology. Professor Estrera's studies have led to the refinement of cutting edge surgical techniques that have greatly improved patient health outcomes.



### Professor Martin R Cowie

Professor Cowie is a Consultant Cardiologist at Royal Brompton Hospital and Professor of Cardiology at Imperial College London. His clinical interest is in heart failure. His research group examines the clinical and cost-effectiveness of a range of different technologies in cardiovascular disease, including remote monitoring, implantable devices, and ventilatory support. A senior investigator with NIHR, he also chairs the NW London Comprehensive Local Research Network Board. Previously he was chair of the British Society for Heart Failure, and he has sat on the Board of the Heart Failure Association of the European Society of Cardiology.



## Our Themes

ICMS activity in research, service developments and education is driven by our research leads and supported by internationally renowned collaborators as leaders in their field within four key areas:

- **Interventional cardiology**, led by Dr Rod Stables, Consultant Cardiologist, Liverpool Heart and Chest Hospital, with academic support from Dr Patrick Serruys (Professor of Interventional Cardiology, Thoraxcentre, Erasmus University, Rotterdam)
- **Arrhythmias**, led by Dr Derick Todd, Consultant Cardiologist, Liverpool Heart and Chest Hospital, with academic support from Professor John Camm, Professor of Clinical Cardiology (St George's, University of London )
- **Heart failure**, led by Dr Jay Wright, Consultant Cardiologist, Liverpool Heart and Chest Hospital, with academic support from Professor Karl Swedberg (Professor of Medicine, Cardiovascular Institute, Gothenburg University, Sweden)
- **Aorta and valves**, led by Professor John Pepper, Consultant Surgeon Royal Brompton Hospital, Professor of Cardiothoracic, National Heart and Lung Institute, Imperial College, with academic support from Professor Anthony Estrera, Professor of Department of Cardiothoracic and Vascular Surgery (University of Texas, Houston)

## Our Patients

Cardiovascular disease remains the most common cause of premature mortality in the western world and is a growing and substantial problem in emerging and developing nations. With the benefits of modern cardiac care, many more patients survive, but often live with distressing symptoms or other limitations. Many cardiovascular conditions are long-term illnesses that will affect patients, and their families and carers over many years. Our mission is to improve the lives of the global community of patients living with cardiac disease. Patients and their families will be central to everything we do: not only in our research but with a role in its planning, analysis and development. We are grateful for the continuing support of our patients and their families in our search for better approaches to prevention, diagnosis and treatment.

### Royal Brompton & Harefield NHS Foundation Trust - Founding Partner

Royal Brompton & Harefield NHS Foundation Trust is the largest specialist heart and lung centre in the UK and among the largest in Europe. The Trust has a 170-year history of expertise in the diagnosis, treatment and long-term care of people with heart and lung disease. As a specialist centre, we treat patients from all over the UK and around the world. Along with our primary academic partner Imperial College London, we have an international reputation for our expertise, standard of care and research into heart and lung disease.

### Liverpool Heart and Chest Hospital NHS Foundation Trust- Founding Partner

Liverpool Heart and Chest Hospital NHS Foundation Trust is one of the largest specialist heart and chest hospitals in the UK, establishing itself as a renowned provider of cardiothoracic services. The Trust provides world class heart and chest services to residents in Merseyside, Cheshire, parts of Lancashire, North Wales and the Isle of Man. Increasingly it is seeing more patients from around the country and even from overseas for its most specialist procedures e.g. aortic aneurysms and TAVI.

### Imperial College London - Academic Partner

Rated among the world's best universities, Imperial College London is a science-based institution with a reputation for excellence in teaching and research. Innovative research at the college explores the interface between science, medicine, engineering and business, delivering practical solutions that improve quality of life and the environment – underpinned by a dynamic enterprise culture. Since its foundation in 1907, Imperial's contributions to society have included the discovery of penicillin, the development of holography and fibre optics.

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[www.rbht.nhs.uk/icms](http://www.rbht.nhs.uk/icms)

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[www.lhch.nhs.uk/About-Us/icms.aspx](http://www.lhch.nhs.uk/About-Us/icms.aspx)

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