



ROYAL COLLEGE OF
PHYSICIANS OF IRELAND

MASTERCLASS

Royal College of Physicians of Ireland
No. 6 Kildare St, Dublin 2

4.00 pm Wednesday, March 3, 2010

RCPI Masterclass Series 2009/2010
***Treating the Acutely Ill
Patient*** – Update and advances
in management of common medical
conditions presenting on call

**Part IV:
Cardiology Session**



Welcome

Dr John Donohoe
President, RCPI

Dr Diarmuid O'Shea
Masterclass Series Convenor, RCPI



Dear Delegates,

In line with its mission to promote excellence in medical education and to support the advancement of the medical profession, we are pleased to welcome you to today's meeting – the Cardiology session of the RCPI Masterclass Series on Treating the Acutely Ill Patient.

The RCPI Masterclass Series – which will run over seven sessions from October 2009 through to June 2010 – is aimed at keeping doctors up to date in evolving medical practice outside their specialty area and to facilitate their continuing medical education.

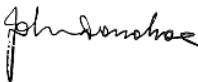
The objective of the series is to help those who are at the front line of our health service continuously improve their skills base, effectively facilitating excellence in patient care. The series brings together medical experts from a variety of specialties under a central theme, provides a senior forum for peer discussion and has in the past attracted unprecedented numbers for Irish training. The entire series will be webcast live to 26 regional hospitals and will also be available as a recorded webcast via the RCPI's Online Education and Resource Centre.

We would like to thank the chairs of this session, Dr Carl Vaughan and Prof Ken McDonald, and the speakers for their contribution to the programme and the series.

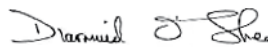
Each session qualifies for 3 CME credits from RCPI (21 in total for the series).

If you have suggestions for future topics in the series include them on the assessment form in your meeting pack. Alternatively, email your suggestions to us at helenmurray@rcpi.ie.

We hope you enjoy the meeting.



Dr John Donohoe
President
Royal College of Physicians of Ireland



Dr Diarmuid O'Shea
Vice President for Education and
Professional Development
Royal College of Physicians of Ireland

Programme: Wednesday, March 3, 2010

TIME	TITLE	SPEAKER	CHAIR
15.30 – 16.00	<i>Registration</i>		
16.00 – 16.25	Acute coronary syndromes	Dr Niall Herity, Belfast City Hospital	Dr Carl Vaughan, Mercy University Hospital, Cork
16.25 – 16.30	<i>Question and Answer Session</i>		
16.30 – 16.55	Intervention in renal artery stenosis – the role of the Cardiologist	Dr Jim Crowley, University Hospital Galway	
16.55 – 17.00	<i>Question and Answer Session</i>		
17.00 – 17.25	Management of common acute arrhythmias	Dr Carl Vaughan, Mercy University Hospital, Cork	
17.25 – 17.45	<i>Question and Answer Session</i>		
17.45 – 18.00	<i>Refreshments</i>		
18.00 – 18.25	The role of CMR in systolic heart failure	Dr Rory O’Hanlon, St Vincent’s University Hospital, Dublin	Prof Ken McDonald, St Vincent’s University Hospital, Dublin
18.25 – 18.30	<i>Question and Answer Session</i>		
18.30 – 18.55	Who to screen for sudden cardiac death	Dr Deirdre Ward, AMNCH, Tallaght, Dublin	
18.55 – 19.00	<i>Question and Answer Session</i>		
19.00 – 19.15	<i>Panel Discussion</i>		

This meeting is approved for 3 CME credits by the Royal College of Physicians of Ireland

Chairpersons

*Dr Carl Vaughan,
Mercy University Hospital, Cork*

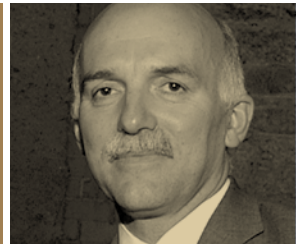


Dr Vaughan will chair Session 1

Carl Vaughan is currently a Consultant Cardiologist at the Mercy University Hospital/ Cork University Hospital in Cork. He earned his medical degree from University College Cork in 1989 and did his early medical training in Cork. He then began training in cardiology in Cork and pursued an MD degree in University College Cork in 1994 before moving for further training to Cornell Medical Centre in New York in 1996. There he pursued fellowship training in cardiology and participated in research on the molecular genetic basis of cardiovascular disease. He joined the faculty at Cornell Medical Centre in 2001 and returned to Cork in 2004.

Dr Vaughan has published widely on many aspects of cardiovascular disease including studies on the molecular genetic basis of inherited heart disease and dyslipidaemia.

*Prof Ken McDonald,
St Vincent's University Hospital, Dublin*



Prof Ken McDonald will chair Session 2

Ken McDonald is a Consultant Cardiologist in St Vincent's University Hospital, Dublin. He is also a lecturer in Medicine at University College Dublin specialising in heart failure and interventional cardiology. Professor McDonald qualified from UCD medical school in 1981 and trained in St Vincent's University Hospital before moving to the University of Minnesota USA in 1988. Between 1991 and 1996 he held the position of Assistant Professor of Medicine in the Division of Cardiovascular Medicine at the University of Minnesota and was subsequently promoted to Associate Professor of Medicine in 1996. Prof McDonald is chairman of the Irish Heart Foundation Council on Heart Failure.

He has had longstanding research interest in heart failure focusing primarily on the areas of ventricular remodelling, prevention of heart failure and health care delivery of heart failure services.

Session 1

16.00 – 16.25

Acute coronary syndromes

Dr Niall Herity,
Belfast City Hospital



Biographical Sketch

Niall Herity is Consultant Cardiologist at the City Hospital/Belfast HSC Trust. He earned his medical degree from University College Dublin in 1988 and did his early medical training in Dublin and Belfast. He then began training in Cardiology in Belfast and was awarded an MD degree from the NUI in 1996. He undertook advanced training in Interventional Cardiology in Stanford University and has been a Consultant Cardiologist at the Belfast Trust since 2001. Dr Herity has published widely on many aspects of cardiovascular disease including cardiovascular physiology, coronary artery disease and interventional cardiology.

Overview of Presentation

Acute coronary syndromes represent a spectrum of clinical disorders that result from acute destabilization of coronary atherosclerotic plaque.

This presentation discusses the definition, pathogenesis and classification of acute

coronary syndromes. It then addresses the clinical presentation and appropriate investigation. Management of ST elevation and non-ST elevation acute coronary syndromes are described followed by a description of recent developments in the field.

Session 1

16.30 – 16.55

Intervention in renal artery stenosis – the role of the Cardiologist

Dr Jim Crowley,
University Hospital Galway



Biographical Sketch

Jim Crowley is Consultant Cardiologist at University College Hospital Galway. Dr Crowley was previously Co-director of Interventional Peripheral Vascular Programme in the Department of Cardiology, Duke University Medical Centre, Durham, North Carolina.

Overview of Presentation

This presentation presents the current data to support the assessment and treatment of patients with renal artery stenosis.

Session 1

17.00 – 17.25

Management of common acute arrhythmias

Dr Carl Vaughan,
Mercy University Hospital, Cork



Biographical Sketch

Carl Vaughan is currently a Consultant Cardiologist at the Mercy University Hospital/Cork University Hospital in Cork. He earned his medical degree from University College Cork in 1989 and did his early medical training in Cork. He then began training in cardiology in Cork and pursued an MD degree in University College Cork in 1994 before moving for further training to Cornell Medical Centre in New York in 1996. There he pursued fellowship training in cardiology and participated in research on the molecular genetic basis of cardiovascular disease. He joined the faculty at Cornell Medical Centre in 2001 and returned to Cork in 2004.

Dr Vaughan has published widely on many aspects of cardiovascular disease including studies on the molecular genetic basis of inherited heart disease and dyslipidaemia.

Overview of Presentation

The presentation will address ECG features, diagnosis and management of common arrhythmias that present to the accident and emergency department. The main topics covered will be atrial fibrillation, supraventricular tachycardia, non-sustained

ventricular tachycardia, sustained ventricular tachycardia, torsades de pointes ventricular tachycardia, bradycardia and heart block and patients with implantable cardiac defibrillators who have an electrical storm.

Session 2

18.00 – 18.25

The role of CMR in systolic heart failure

Dr Rory O'Hanlon,
St Vincent's University Hospital, Dublin



Biographical Sketch

Rory O'Hanlon is a cardiologist with a specialised interest in inherited cardiomyopathy, sudden cardiac death, and heart failure. He has recently spent three years in the Royal Brompton Hospital in London specialising in the use of cardiovascular magnetic resonance imaging in both ischaemic and non-ischaemic cardiomyopathies, and in particular the role of his imaging modality to non-invasively diagnose and risk stratify these patients as well as to guide therapies such as CABG, PCI, ICD insertion, and CRT assessment.

Overview of Presentation

CMR is the gold standard imaging modality to view the heart in exquisite detail without the use of ionising radiation. With the use of standard gadolinium contrast agents, we are able to image myocardial scarring and assess myocardial perfusion to the microvascular level, features of particular importance in

the evaluation of cardiomyopathies such as HCM, ARVC, LVNC, and DCM. In ischaemic patients, CMR techniques can accurately guide which patients will benefit from revascularisation and can stratify risk for SCD or the need for CRT.

Session 2

18.30 – 18.55

Who to screen for sudden cardiac death

Dr Deirdre Ward,
AMNCH, Tallaght, Dublin



Biographical Sketch

Deirdre Ward graduated from Trinity College Dublin in 1994. She completed her cardiology training in Dublin, obtaining her CSCST from the Royal College of Physicians of Ireland in 2003. She obtained a British Heart Foundation Fellowship to participate in Clinical Research into Inherited Cardiac Disease with Professor William McKenna and colleagues at The Heart Hospital in London, where she worked for over three years. Dr Ward returned to Dublin in January 2007 to take up post as the Director for the Centre for Cardiac Risk in Younger Persons which is located at the Adelaide and Meath Hospital, Tallaght. The Centre was developed to provide comprehensive rapid assessment and management for patients and families with definite or possible inherited cardiac disorders, including families where sudden death of a young person has occurred. Dr Ward now sees almost 1500 patients annually at this Centre.

Overview of Presentation

The incidence of sudden cardiac death (SCD) increases with age and occurs in approximately 50 per 100,000 of the population aged 35-64 years. Over 75% of sudden deaths in this age group occur because of acute ischaemic events on a background of atherosclerotic coronary disease. In the population aged 1-35 years the incidence of SCD is much lower (1-3 per 100,000 population) but the predisposing causes are more likely to be structural or electrical cardiac diseases that are for the most part inherited.

Cardiomyopathy is the most common inherited cardiac disease, with over 1 in 500 of the population carrying a gene for hypertrophic cardiomyopathy (HCM). Other

causes of SCD in the young include ion channel disorders (long QT syndrome and Brugada syndrome) or conduction disorders. In these cases there will generally be no abnormality detected on post-mortem.

In general, screening for SCD should be targeted towards families where SCD had occurred, or inherited cardiac disease has been identified, as the risk of a first degree relative being similarly affected is 1 in 2. Other situations where evaluation should focus on possible underlying cardiac disorder include unexplained syncope, palpitations associated with haemodynamic compromise and chest pain or shortness of breath on exertion which limit exercise tolerance compared with peer group.

UPCOMING SESSIONS in the *2009/2010 RCPI Masterclass Programme*
will take place from 16.00 to 19.30 on the following dates:

Part V:	Dermatology	7 April 2010
Part VI:	Endocrinology	5 May 2010
Part VII:	Nephrology	2 June 2010