

British Cardiovascular Imaging Meeting 2018

DAY 1 – Wednesday 2nd May 2018

	08:00 – 10:00	Registration	
Prestonfield	08:30 – 09:30	Cardiac imaging basics for the non-specialist	
		<i>Chair: Dr Katharine Vedwan</i>	
		08:30 Cardiac CT basics/for the non-specialist	Dr Alastair Moss
		08:50 Cardiac CMR basics/for the non-specialist	Dr Thomas Treibel
		09:10 Nuclear cardiac imaging basics/for the non-specialist	Dr Matthew Balerdi

Pentland	10:00 – 10:20	Welcome: <i>Professor David Newby, Dr Giles Roditi, Professor James Moon, Dr Kshama Wechalekar</i>	
	10:20 – 11:50	Session 1: The year in multimodality cardiovascular imaging <i>Chairs: Professor David Newby, Professor James Moon, Dr Ed Nicol</i>	
		10:20 The year in cardiac imaging - CT	Dr Gareth Morgan-Hughes
		10:40 The year in cardiac imaging - MRI	Professor Gerry McCann
		11:00 The year in cardiac imaging - Nuclear	Dr Kshama Wechalekar
		11:20 The year in cardiac imaging - Echo	Dr Guy Lloyd
11:40 Discussion/questions			
11:50 – 12:30	Session 2: State of the art imaging <i>Chair: Dr Russell Bull & Professor John Greenwood</i>		
	11:50 State of the art imaging of anatomy versus function	Dr Andrew Kelion	
	12:10 State-of-the-art imaging in congenital cardiac disease	Dr Simon McGuirk	
Prestonfield	10:00 – 12:30	Case Based Learning 1: Basics of ischaemic and coronary artery disease	
		<i>Chairs: Dr Mhairi Doris & Dr Prasad Guntur</i>	
		10:00 Imaging cases - MRI basic	Dr Timothy Fairbairn
		10:30 Imaging cases - CT basic	Dr Michelle Williams
		11:00 Imaging cases - nuclear basic	Dr Rebecca Schofield
		11:30 Imaging cases - MRI and CT basic	Dr Matthias Schmitt
12:00 Imaging cases - MRI and nuclear basic	Dr Manish Motwani		
Holyrood	11.30-12.30	Joint BSCI/BSCCT, BSCMR, BNCS Multimodality Imaging Case reports - Part 1 <i>Chairs: TBC</i>	

12:30 – 13:30	Lunch	
	12.30 – 13.30 Industry Lunchtime Symposium: Shire Pharmaceuticals Limited <i>Lunch provided in the Pentland room</i>	Pentland
	13.00 BSCI/BSCCT AGM	Prestonfield

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Pentland	13:30 – 14:00	Industry Session 1 <i>Chair: Dr Ben Holloway</i> 13:30 Industry presentation GE Healthcare 13:45 Industry presentation Heartflow
	14:00 – 15:30	Session 3: Multimodality imaging coronary artery disease / ischaemic heart disease <i>Chairs: Dr Michelle Williams, Professor Sven Plein & Professor Eike Nagel</i> 14:00 Magnetic resonance angiography and plaque analysis - ready for prime time Professor René Botnar 14:20 Imaging adipose tissue in cardiovascular disease Professor Charalambos Antoniades 14:40 New and old tracers in cardiovascular disease Professor David Newby 15:00 High risk atherosclerotic plaques Dr Pál Maurovich-Horvat 15:20 Discussion/questions
Prestonfield	13:30 – 14:30	Case based learning 2 - Basics of ischaemic and coronary artery disease <i>Chairs: Dr Timothy Fairbairn, Dr William Moody</i> 13:30 Imaging cases - CT and nuclear basic Dr Jim Stirrup 14:00 Imaging cases basic - Congenital Dr James Shambrook
	14:30 – 15:30	BSCI/BSCCT Young Investigator Award <i>Chairs: TBC</i> 14.30 18F-Fluoride and 18F-Fluorodeoxyglucose Positron Emission Tomography After Transient Ischemic Attack or Minor Ischemic Stroke Alex Vesey 14.40 Predicting Abdominal Aortic Aneurysm Growth using 18F-Sodium Fluoride PET-CT Rachael Forsythe 14.50 The Detection of Cardiac Amyloidosis using Extracellular Volume Quantification by Computed Tomography Paul Scully 15.00 Association between computed tomography features of non-alcoholic fatty liver disease and coronary artery disease A sub-study of the SCOT-HEART trial Jessica Carter 15.10 Gender Disparities in Aortic Stenosis: An Optimised Assessment with Contrast-Enhanced Computed Tomography Timothy Cartlidge 15.20 Comparing echocardiography and cardiac magnetic resonance measures of ejection fraction: implications for HFmRF research Daniel Bromage
15:30 – 16:00		Coffee Moderated electronic poster session in the Marquee
Pentland	16:00 – 17:00	Keynote Lecture 1 <i>Chair: Professor Stefan Neubauer</i> 16:00 Multimodality imaging in cardiovascular disease Professor Marcelo di Carli 16:45 Questions/discussion
	17:00 – 18:00	Debate: This house believes that assessment of atherosclerotic plaque is more important than assessment of perfusion <i>Chairs: Dr Andrew Kelion & Dr Gareth Morgan-Hughes</i> 17:00 For Dr Marc Dweck 17:20 Against Professor Eike Nagel 17:40 Rebuttal
18:00		Day 1 Close

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DAY 2 – Thursday 3rd May 2018

07:00 – 08:00		Early Morning Run up Arthur's Seat – Meet outside JMCC	
08:00 – 09:00		Registration	
		Industry Breakfast Symposium: Circle Cardiovascular Imaging	Pentland A
Pentland A	09:00 – 10:30	Session 4A : Imaging pulmonary artery hypertension and thromboembolic disease	
		<i>Chairs: Dr Deepa Gopalan & Dr Giles Roditi</i>	
		09:00 Chronic thromboembolic disease: introduction, pathophysiology & current guidelines	Dr Simon Gibbs
		09:20 Multimodality imaging of CTEPH	Dr Deepa Gopalan
		09:40 Balloon pulmonary angioplasty: emerging treatment for CTEPH	Professor Bernhard Meyer
	10:00 Machine learning in pulmonary hypertension	Dr Declan O'Regan	
	10:20 Discussion/questions		
Pentland B	09:00 – 10:30	Session 4B : Imaging in valvular heart disease	
		<i>Chairs: Dr Marc Dweck, Dr Matthew Balerdi, Professor Simon Ray</i>	
		09:00 Advanced echo assessment of valvular heart disease	Dr Richard Steeds
		09:20 CT imaging in aortic valve disease (calcium scoring and TAVI assessment)	Dr Jonathon Leipsic
		09:40 CMR imaging of valve disease	Professor Saul Myerson
	10:00 PET imaging of valve disease	Dr Marc Dweck	
	10:20 Discussion/questions		
Prestonfield	09:00 – 09:20	BNCS Abstract session	
		<i>Chairs: Dr Ann Tweddel & Dr Nik Sabharwal</i>	
		09:00 A Multi-Centre Study of Cardiac Amyloidosis in TAVI Patients	Paul Scully
	09:10 The role of 18F-FDG PET/CT imaging in the diagnosis of Infective Endocarditis	Tom Clay	
	09:30 – 10:30	Joint BSCI/BSCCT, BSCMR, BNCS Multimodality Imaging Case reports - Part 2 <i>Chairs: TBC</i>	
Holyrood	09:00 – 10:30	Image optimisation masterclass 1:	
		<i>Chairs: Ms Elizabeth Shaw & Dr Michelle Williams</i>	
		09:00 ECG interpretation for imaging	Ms Elizabeth Shaw
		09:20 Dealing with emergencies - contrast (anaphylaxis)	Dr Iwan Harries
		09:40 Dealing with emergencies - VT, cardiac arrest	Dr William Moody
	10:00 Radiation and IRMER	Dr Christina Stewart	
	10:20 Discussion/questions		
10:30 – 11:00		Coffee Moderated electronic poster session in the marquee	

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Pentland A	11:00 – 12:30	Session 5A : Imaging devices, endocarditis, electrophysiology	
		<i>Chairs: Dr Nik Sabharwal & Dr Ben Holloway</i>	
		11:00 Native valve endocarditis an overview	Dr Simon Woldman
		11:20 Prosthetic valve endocarditis - nuclear imaging	Dr Parthiban Arumugam
		11:40 Cardiac device infection from the implant perspective	Dr Fozia Ahmed
		12:00 Multimodality imaging for electrophysiology	Dr Steven Williams
12:20 Discussion/questions			
Pentland B	11:00 – 12:30	Session 5B : Essential non-imaging skills	
		<i>Chairs: Dr Mark Westwood, Dr Sarah Clarke & Dr Graham McKillop</i>	
		11:00 Accreditation vs examination	Professor Simon Padley
		11:20 Standardised reporting - pros and cons	Dr James Shambrook
		11:40 How are we to deliver cardiac imaging to meet new guidelines? Current status, workforce and service planning	Dr Giles Roditi
		12:00 Getting it right first time in the era of multimodality imaging	Professor Simon Ray
12:20 Discussion/questions			
Prestonfield	11:00 – 12:00	BSCMR Young Investigator Award	
		<i>Chairs: TBC</i>	
		11.00 Carotid plaque lipid reduction, determined by T2 mapping, occurs early after high-intensity statin initiation in patients presented with acute myocardial infarction	Mohammad Alkhalil
		11.10 Assessment of the Microstructure in Recovered Dilated Cardiomyopathy with Diffusion Tensor Cardiovascular Magnetic Resonance	Zohya Khalique
		11.20 Treatment response in cardiac AL amyloidosis assessed by CMR: findings at 3 months, 6 months and 1 year post-chemotherapy	Ana Martinez-Naharro
		11.30 Four-dimensional Left Ventricular Blood Flow Energetics Independently Predict Adverse Remodelling Post ST-elevation Myocardial Infarction	Pankaj Garg
		11.40 Defining the effects of genetic variation using machine learning analysis of CMRs: a study in Hypertrophic Cardiomyopathy and in a healthy population	Antonio de Marvao
		11.50 Diffusion tensor magnetic resonance imaging of myocardial disarray in hypertrophic cardiomyopathy	Rina Ariga
	12:00 – 12:30	Joint BSCI/BSCCT, BSCMR, BNCS Multimodality Imaging Case reports - Part 3	
	<i>Chairs: TBC</i>		
Holyrood	11:00 – 12:30	Image optimisation masterclass 2:	
		<i>Chairs: Dr Michelle Mak & Dr Michelle Crawford-Jefferson</i>	
		11:00 Nuclear tracers	Dr Jason Tarkin
		11:20 PET in coronary and valve disease	Mr Paul Cowan
		11:40 Optimising nuclear cardiac images - top tips	Dr Ian Armstrong
		12:00 Stress agents	Dr Matthew Balerdi
12:20 Discussion/questions			
12:30 – 13:30	Lunch		
	13.00 BSCMR AGM		Prestonfield

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Pentland	13:30 – 14:00	Industry Session 2	
		<i>Chair: Dr Russell Bull</i>	
		13:30 Industry presentation	Siemens Healthineers
		13:45 Industry presentation	Cannon Medical
	14:15 – 15:45	Session 6: Advanced image analysis in cardiovascular imaging	
		<i>Chairs: Dr Matthias Schmitt & Professor Dudley Pennell</i>	
		14:15 Cardiac MR quality analysis using machine learning	Professor Julia Schnabel
		14:35 Deep learning for intelligent cardiac imaging	Professor Daniel Rueckert
		14:55 Artificial intelligence and cardiovascular imaging	Dr Manish Motwani
		15:15 Precision medicine in 2020	Professor James Moon
Prestonfield	13:30 – 15:30	Case based learning 3: Myocardial, cardiomyopathy, heart failure	
		<i>Chairs: Dr Mark Harbinson & Dr Thomas Treibel</i>	
		13:30 Imaging cases - MRI and nuclear	Dr Manish Motwani
		14:00 Imaging cases - CT and MRI	Professor Nick Bellenger
		14:30 Imaging cases - CT and nuclear basic	Dr Ben Holloway
Holyrood	13:30 – 15:30	Image optimisation masterclass 3:	
		<i>Chairs: Dr Gabriella Captur, Dr Julie O'Brien</i>	
		13:30 MRI contrast agents	Dr Katharine Vedwan
		13:50 MRI safety	Mr David Clark
		14:10 Optimising cardiac MRI images - top tips	Mr David Clark
		14:30 Dealing with fast and irregular heart rates	Ms Elizabeth Shaw
15:45 – 16:15	Coffee		
	Moderated electronic poster session in the marquee		
Pentland	16:15 – 17:00	Keynote Lecture 2	
		<i>Chair: Dr Giles Roditi</i>	
		16:15 The future of cardiac CT	Dr Jonathon Leipsic
	17:00 – 18:00	Multimodality imaging quiz	
<i>Chair: Dr Matthias Schmitt</i>			
BSCI/BSCCT team: Dr James Shambrook, TBC			
BSCMR team: Dr Marc Dweck, Dr Ceri Davies			
BNCS team: Dr Andrew Kelion, Dr Eliana Reyes			
18:00	Day 2 Close		
19:00	Evening Dinner at The Caves, 8-10 Niddry Street South, EH1 1NS		

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DAY 3 – Friday 4th May 2018

08:00 – 09:00		Registration	
Pentland A	09:00 – 10:30	Session 8A : Imaging of infiltrative diseases - amyloid, sarcoid	
		<i>Chairs: Dr Eliana Reyes & Dr Sanjay Banypersad</i>	
		09:00 MRI imaging in sarcoidosis	Dr Sanjay Prasad
		09:20 The role of hybrid imaging in cardiac sarcoidosis	Dr Eleanor Wicks
		09:40 MR imaging in amyloidosis	Dr Marianna Fontana
		10:00 Nuclear imaging and amyloidosis	Dr Leon Menezes
		10:20 Discussion/questions	
Pentland B	09:00 – 10:30	Session 8B : Imaging in acute chest pain	
		<i>Chairs: Professor Nick Bellenger, Dr Jim Stirrup & Professor Neal Uren</i>	
		09:00 CT in acute chest pain	Dr Klaus Kofoed
		09:20 MRI in acute chest pain	Dr Chiara Bucciarelli-Ducci
		09:40 Nuclear imaging in acute chest pain	Dr Andrew Einstein
		10:00 Triple rule out - pros and cons	Dr Russell Bull
		10:20 Discussion/questions	
Prestonfield	09:00 – 10:30	Case based learning 4: Valves, pericardial, aorta	
		<i>Chairs: Dr Mark Hamilton & Dr Iwan Harries</i>	
		09:00 Imaging cases MRI	Dr Matthias Schmitt
		09:30 Imaging cases CT	Dr Alastair Moss
		10:00 Imaging cases nuclear	Dr Steven White
10:30 – 11:00		Coffee	
Pentland A	11:00 – 12:30	Session 9A : Potential risks of cardiovascular imaging	
		<i>Chairs: Dr Kshama Wechalekar & Professor Simon Padley</i>	
		11:00 What are the risks from ionising radiation in cardiovascular imaging? An update	Dr Andrew Einstein
		11:25 What are the risks from the biological effects of CMR? An update	Dr Chris Miller
		11:50 Risks of gadolinium contrast agents - what is the evidence?	Dr Giles Roditi
		12:15 Panel discussion	
Pentland B	11:00 – 12:30	Session 9B : Imaging inherited cardiac disease	
		<i>Chairs: Dr Timothy Fairbairn & Dr Leon Menezes</i>	
		11:00 Hypertensive heart disease	Dr Thomas Treibel
		11:20 Exercise induced cardiomyopathies	Dr Aneil Malhotra
		11:40 Imaging in sudden cardiac death (family screening etc.)	Dr Matthias Schmitt
		12:00 Post-mortem cardiac imaging - can imaging add to the diagnosis?	Professor Bruno Morgan
		12:20 Discussion/questions	
Prestonfield	11:00 – 12:30	Read with the Experts: Pot pourri	
		<i>Chairs: Dr Ananth Kidambi & Dr Jason Tarkin</i>	
		11:00 Imaging cases MRI	Professor Nick Bellenger
		11:30 Imaging cases CT	Dr Russell Bull
		12:00 Imaging cases nuclear	Dr Eliana Reyes

12:30 – 13:30		Lunch	
		13.00 BNCS AGM	Prestonfield
Pentland	13:30 – 14:30	Keynote Lecture 3	
		Chair: Professor Richard Underwood	
		13:30 PET/MRI - how should we use it in cardiovascular imaging?	Professor Frank Bengel
		14:15 Questions/discussion	
14:30 – 15:00		Coffee	
Pentland	15:00 – 16:00	Session 10: Top trials in cardiovascular imaging	
		Chair: Professor Colin Berry, Dr Michelle Williams, Dr Nik Sabharwal	
		15:00 Top trials CT	Dr Jim Stirrup
		15:15 Top trials MRI	Professor Vanessa Ferreira
		15:30 Top trials Nuclear cardiology	Dr Eliana Reyes
		15:45 Discussion	
16:00		Day 3 and Meeting Close	

BCVI Learning outcomes

- Develop an awareness of the various imaging modalities available to assess cardiovascular diseases.
- Appreciate the recent research in cardiovascular imaging, both with individual imaging modalities and multimodality imaging.
- Know some of the advantages and disadvantages of the different non-invasive imaging modalities for patients with a range of cardiac disease.
- Understand the need for collaborative multimodality imaging in the care of patients with cardiac diseases.
- Be aware of appropriate guidelines for the use of non-invasive cardiovascular imaging.

Accreditation

- This course provides 18 CPD credits in accordance with the CPD Scheme of the Royal College of Radiologists
- 18 CPD credits have been applied for through the Royal College of Physicians