

# BSCI/BSCCT Annual Spring Conference

Keble College, Oxford

**MONDAY 13<sup>TH</sup> & TUESDAY 14<sup>TH</sup>  
SEPTEMBER 2021**

bsci bscCT

08:30 – 09:00	DAY ONE REGISTRATION (MONDAY 13 <sup>TH</sup> SEPTEMBER)			
	O'Reilly Theatre		Douglas Price Room	
09:00 – 09:10	Welcome and introduction O'Reilly Theatre	Chair: Dr Russell Bull Dr Andrew Kelion		
09:10 – 09:40	Session 1: Cardiac imaging: Where are we going? O'Reilly Theatre	Chair: Dr Andrew Kelion Prof David Newby		
09:40 - 11:10	Debates in imaging and cardiology 1: O'Reilly Theatre <i>This house believes that:</i> 09:40 Most PCI in patients with stable CAD is an unnecessary mistake	Moderator: Prof Carl Roobottom  For: Prof Darrel Francis Against: Dr Jeremy Langrish	09:40 – 11:10 Read with the Experts 1: CCTA in patients with known coronary artery disease	Dr Mark Hamilton  Douglas Price Room
	10:10 Reporting a wide field-of-view in CCTA does more harm than good	For: Dr Andrew Kelion Against: Dr Charles Peebles		
	10:40 Calcium scoring no longer has any role in routine coronary CT for chest pain	For: Dr James Stirrup Against: Gp Capt Edward Nicol		
11:10 – 11:15	Award for... Biggest LV in an outpatient O'Reilly Theatre	Chair: Dr Andrew Kelion		
11:15 – 11:45	Coffee Break Moderated poster presentations Session 1: Structural Heart Disease in the Arco meeting rooms			
11:45 – 13:15	Session 2: Cardiac Imaging you will probably never do! 11:45 Babies	Chair: Dr Fiona MacLeod Dr Tom Semple	11:45 – 13:15 Read with the Experts 2: CMR in patients with “heart failure ?cause”	Prof Vanessa Ferreira  Douglas Price Room
	12:15 The Dead	Dr Rachel Benamore		
	12:45 Animals O'Reilly Theatre	Prof Virginia Luis Fuentes		
13:15 – 13:45	Annual General Meeting for BSCI/BSCCT members			
13:15 – 14:15	Lunch – Hot lunch in Keble College hall followed by poster viewing, coffee and dessert in the Arco meeting rooms			
14:15 – 14:45	Industry session 1: 14:15 Canon Medical		14:15 – 15:45 Read with the Experts 3: Reporting CCTA extra-cardiac findings: An insider’s guide	Dr Heiko Peschl  Douglas Price Room
	14:30 HeartFlow O'Reilly Theatre			
14:45 – 14:50	Award for...most complex congenital heart disease presenting in an adult O'Reilly Theatre	Chair: Dr Andrew Kelion		
14:50 – 15:40	Session 3: Scientific oral presentations O'Reilly Theatre	Chairs: Dr Andrew Kelion and Dr Russell Bull		
15:40 – 16:00	Session 4: BSCI/BSCCT National audit – invasive testing after CCTA following introduction of NICE CG95 update O'Reilly Theatre	Dr Gareth Morgan-Hughes		
16:00 – 16:25	Afternoon Tea Moderated poster presentations Session 2: Coronary Artery Disease in the Arco meeting rooms			
16:25 – 17:10	Keynote Lecture: The future of cardiovascular CT O'Reilly Theatre	Chair: Dr Russell Bull Dr Eric Williamson		
	Session 5: BSCI/BSCCT Multimodality Imaging Quiz O'Reilly Theatre	Quizmaster: Dr JP Carpenter		
18:30 - 19:15	Pre-dinner drinks in Keble College followed by Conference Dinner at 19:30 in Keble College Formal Hall			

07:30 - 08:00	Morning run around South Parks (opposite Keble College): meet 07:30 at Keble Porters Lodge			
08:00 – 08:30	DAY TWO REGISTRATION (TUESDAY 14 <sup>TH</sup> SEPTEMBER)			
	O'Reilly Theatre		Douglas Price Room	
08:30 – 08:35	Award for...Nastiest endocarditis O'Reilly Theatre	Chair: Dr Andrew Kelion		
08:35 – 09:35	Session 6: Imaging of infiltrative myocardial diseases 08:35 Sarcoidosis	Chair: Dr Deepa Gopalan Dr Eleanor Wicks	09:00 – 10:30 Read with the Experts 4 : CT in patients with Adult Congenital Heart Disease	Dr Liz Orchard Dr James Shambrook  Douglas Price Room
	08:55 Amyloidosis	Dr Leon Menezes		
	09:15 Storage disorders O'Reilly Theatre	Dr Oliver Watkinson		
09:35 - 10:35	Session 7: Multimodality read with the experts O'Reilly Theatre	Chair: Dr Nikant Sabharwal Dr Gareth Morgan-Hughes Dr Matthias Schmitt Dr Jim Newton Dr Rebecca Schofield		
10:35 – 11:05	Coffee Break			
11:05 – 12:05	Debates in imaging and cardiology 2: Balloon debate - Which is the most important? Luminal stenoses Ischaemia Plaque burden and characteristics Perivascular fat attenuation O'Reilly Theatre	Moderator: Dr Matthias Schmitt  Dr Timothy Fairbairn Dr Matt Balerdi Dr Michelle Williams Prof Charis Antoniadis	11:05 – 12:35 Read with the Experts 5 : CT in patients being assessed for TAVI	Dr Sam Dawkins Dr Ben Holloway  Douglas Price Room
12:05 – 12:35	Industry Session 2: 12:05 Siemens Healthineers  12:20 GE Healthcare O'Reilly Theatre			
12:35 – 13:35 Lunch – Hot lunch in Keble College hall followed by poster viewing, coffee and dessert in the in the Arco meeting rooms				
13:35 – 13:40	Award for...Most convincing “animal” seen using cardiac imaging O'Reilly Theatre	Chair: Dr Andrew Kelion		
13:40 – 14:25	Session 8: Trainee case presentations O'Reilly Theatre	Chairs: Dr Alastair Moss and Dr Jamie Kitt		
14:25 – 15:25	Session 9: Top 5 papers in imaging and cardiology 14:25 Echocardiography	Chair: Dr Giles Roditi Dr Paul Leeson		
	14:37 Cardiovascular CT	Dr Jonathan Weir-McCall		
	14:49 Cardiac Magnetic Resonance	Prof Chiara Bucciarelli-Ducci		
	15:01 Scintigraphy	Dr Rebecca Schofield		
	15:13 Structural intervention O'Reilly Theatre	Dr Sam Dawkins		
15:25 – 15:35	Closing Comments O'Reilly Theatre	Dr Russell Bull and Dr James Shambrook		

## Scientific abstract presentations (oral and moderated posters)

	Session 3: Scientific oral presentations – Young Investigators Award (Monday 13 <sup>th</sup> September 2021) O'Reilly Theatre	Chair: Dr Andrew Kelion and Dr Russell Bull Judges: Dr Clare Colburn, Dr James Shambrook and Dr Abbas Ausami
1450	OP1 18F-Fluoride PET/MR in cardiac amyloid: a comparison study with aortic stenosis and age and sex matched controls	Dr Jack Andrews University of Edinburgh
1503	OP2 Improved cardiac risk stratification in individuals with high risk plaque features using the perivascular fat attenuation index on CCTA	Dr Christos Kotanidis University of Oxford
1516	OP3 Pericoronary adipose tissue density is greater in Takayasu arteritis than atherosclerosis and is associated with coronary arterial inflammation measured by 68Ga-DOTATATE PET	Dr Christopher Wall University of Cambridge
1529	OP4 Coronary artery disease and atherosclerotic plaque subtypes in patients with suspected angina and a coronary calcium score of zero	Dr Michelle Williams University of Edinburgh

	Moderated poster presentations Session 1: Structural Heart Disease (Monday 13 <sup>th</sup> September 2021) Arco meeting rooms	Moderators: Dr Aparna Desphande and Dr Gareth Morgan-Hughes
1120	M1 Improving arterial opacification in computed tomography for transcatheter aortic valve replacement	Dr Hend Komber
1125	M2 Annular versus supra-annular sizing for transcatheter aortic valve replacement in bicuspid aortic valve disease	Dr Jonathan Weir-McCall
1130	M3 Computed tomography prior to transcatheter aortic valve implantation in the United Kingdom	Dr Alastair Moss

	Moderated poster presentations Session 2: Coronary artery disease (Monday 13 <sup>th</sup> September 2021) Arco meeting rooms	Moderators: Dr Giles Roditi and Dr Mark Westwood
1600	M4 Reporting incidental coronary and cardiac calcification on thoracic CT – BSCI/BSCCT survey of radiologist opinions	Dr Michelle Williams
1605	M5 Comparing CTCA and CACS in assessing risk in high hazard occupations	Dr Jennifer Holland
1615	M6 Radiation dose in the investigation of stable chest pain	Mr Justin Chiong



## Scientific abstract posters

<b>P01</b>	Heartflow: Experience of a high-volume district general hospital
<b>P02</b>	Efficacy of intravenous metoprolol for heart rate control in patients undergoing CT coronary angiography
<b>P03</b>	Reporting of coronary artery calcification on non-gated pre-surgical CT thorax
<b>P04</b>	FFRCT: Benefits and limitations. A tertiary centre experience at Glenfield Hospital/University of Hospitals Leicester
<b>P05</b>	Acute cardiac CT pathway for troponin negative chest pain
<b>P06</b>	Establishing a new cut off of calcium score
<b>P07</b>	David vs. Goliath: CTCA versus invasive angiography in previous bypass patients presenting with NSTEMI
<b>P08</b>	Automated calculation of the RV:LV ratio in acute pulmonary embolism: a real-world feasibility and clinical impact study
<b>P09</b>	The relationship of aortic valve calcification and aortic valve area on computed tomography
<b>P10</b>	Correlation of aortic valve calcification on CT with aortic valve area estimated by the continuity equation using transthoracic echocardiography
<b>P11</b>	Coronary artery disease prevalence by computed tomography coronary angiography in patients with Familial Hypercholesterolaemia
<b>P12</b>	Exploring the value of computed tomography coronary angiography in guiding management of asymptomatic patients with Familial Hypercholesterolaemia
<b>P13</b>	The anatomical and functional characteristics of myocardial scar in MINOCA patients
<b>P14</b>	Downstream investigation following CT coronary angiography: an audit of practice in a UK centre
<b>P15</b>	Assessment of blood flow patterns in patients with Type B aortic dissection by 4-Dimensional flow phase contrast magnetic resonance imaging – a pilot study
<b>P16</b>	Rubidium myocardial perfusion PET-CT: initial experience in first 100 patients
<b>P17</b>	Association of aortic valve calcification with paravalvular regurgitation and conduction abnormalities in transcatheter aortic valve implantation: role of individual aortic valve leaflet calcium

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# **BSCI/BSCCT Annual Meeting 2021**

## **Speaker Profiles**

### **Keynote Speaker: Dr Eric Williamson**

Dr Williamson is a Radiologist that currently works in the Vascular Center department of Mayo Clinic in Rochester, Minnesota. Dr Williamson performs CT Scans and MRI's, and his focuses include CT angiography, Multi-detector CT protocols, and Contrast media kinetics. Dr Williamson received his Bachelors degree from Baylor University, and his Medical Degree from Mayo Medical School, Mayo Clinic College of Medicine. He has received the Manga Cum Laude award and the Certificate of Merit award from the Radiological Society of North America, as well as the Outstanding Teacher award from the International Society of Magnetic Resonance in Medicine.

### **Speakers (A-Z)**

#### **Prof Charalambos Antoniades**

Charis is a Professor of Cardiovascular Medicine at the University of Oxford, Deputy Head of the Division of Cardiovascular Medicine. He is a Consultant Cardiologist in Oxford University Hospitals running a Hypertension service of the Trust and Directs the Oxford Academic Cardiovascular CT programme and image analysis core lab. His research is focused on translational imaging in cardiovascular diseases, and applies a wide range of artificial intelligence

methods to discover new imaging biomarkers. He has raised >£30m for his research programme over the last 9 years, and he has published >270 papers in high impact journals like the Lancet, Science Translational Medicine, Circulation, JACC and others. In 2016 he received the outstanding achievement award of the European Society of Cardiology and in 2018 he received the “Fellow of the Year” award of the British Heart Foundation. He is Deputy Editor of Cardiovascular Research, editor of British Journal of Pharmacology and board member of various societies. He is Chair of the British Atherosclerosis Society. He is also founder and Chief Scientific Officer of Caristo Diagnostics, a University of Oxford spinout company.

## **Dr Matthew Balerdi**

Matthew is a consultant imaging cardiologist working cross trust at both Hull and East Yorkshire Hospitals and Northern Lincolnshire and Goole Hospitals. His special interests are complex echocardiography (Stress, TTE and TOE), cardiac CT and nuclear cardiology. He runs the adult congenital heart disease service in Hull and is the cardiac imaging lead for Northern Lincolnshire and Goole.

Dr Balerdi graduated from the University of Bristol with Honours BSC in Anatomy. From interview he was selected to enter the University of Leicester’s first 4 year cohort and completed the MBChB with distinction in the clinical examinations. He has trained in cardiology across several hospitals; Nottingham University Hospitals, Royal Brompton and Harefield hospitals, Hull and East Yorkshire Hospitals before completing his training in University of Leeds Teaching Hospitals.

## **Dr Rachel Benamore,**



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Rachel Benamore qualified in medicine from Cambridge University. She undertook her radiology training in Leicester and undertook a year's fellowship in Toronto, Canada. She has been a consultant radiologist at the Churchill Hospital, Oxford, since 2006. She is currently Thoracic Radiology Lead in Oxford and frequently lectures nationally.

### **Prof Chiara Bucciarelli-Ducci**

Prof Bucciarelli-Ducci was a Senior Lecturer in Cardiology at the University of Bristol and honorary consultant cardiologist at the Bristol Heart Institute, University Hospitals Bristol and Weston NHS Trust, Bristol, United Kingdom (2010-2021). She is currently transitioning to the Royal Brompton and Harefield Clinical Partnership, Guys' and St Thomas NHS Trust and King's College in London, United Kingdom. She was awarded a PhD in Cardiac Magnetic Resonance at the National Heart and Lung Institute, Imperial College London (2012).

She is the Chief Executive Officer (CEO) of the Society for Cardiovascular Magnetic Resonance (SCMR), and past Vice-President and past chair of the cardiac MRI section (2016-2018) of European Association of Cardiovascular Imaging (EACVI), European Society of Cardiology (ESC). She was part of the writing committee for the 2017 ESC guidelines on STEMI and the 2018 ESC/AHA/ACC/WHF 4th definition of myocardial infarction.

She is a consultant for the International Atomic Energy Agency (IAEA) (for medical imaging) of the United Nations and a consultant for the European Medicines Agency (EMA) (for MRI contrast agents) of the European Union. Since 2020 she is one of the deputy editors for European Heart Journal (imaging section). In addition, she is an editorial consultant for JACC Cardiovascular Imaging and in the editorial board of Circulation Imaging and of the European Heart Journal- Cardiovascular Imaging. She is a reviewer for all major cardiology and imaging journals.

### **Dr JP Carpenter**



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Dr John-Paul Carpenter (who prefers to be called "JP") is a cardiologist with a specific interest in cardiovascular imaging including echocardiography, cardiac CT and cardiovascular MR.

He took up his current post in 2013 as a consultant in Poole Hospital after training at the Royal Brompton Hospital and National Heart and Lung Institute in London as well as the Wessex Cardiothoracic Centre in Southampton. He is Examination Board and Certification Chair for EACVI (Section CMR), Vice-Chair of the EACVI Certification Committee and is a founding board member of the British Cardio-Oncology Society. He is closely involved with the reconfiguration of local healthcare services, combining expertise across three hospital sites to provide a single, comprehensive cardiovascular centre of excellence for Dorset.

## **Dr Sam Dawkins**

Dr Sam Dawkins specialises in coronary and structural intervention. He is the Clinical Lead for the Structural Intervention Programme in Oxford, which treats patients with complex structural heart disease from across the South of England. He trained in London and Oxford and spent two years working at Cedars Sinai Medical Center in Los Angeles, which is the busiest valve centre in the United States. During his time in California he trained in valve intervention, critical care and mechanical circulatory support.

Special interests include interventional cardiology, structural intervention and cardiac CT

## **Dr Timothy Fairbairn**

Dr Fairbairn is a Consultant Cardiologist sub-specialising in cardiovascular imaging at Liverpool Heart and Chest Hospital and is an Honorary Senior Lecturer and National Institute Health Research Scholar at the University of Liverpool. He practices in advanced echocardiography, cardiac MRI and cardiac CT. His clinical and research interests

include coronary artery disease, aortic valve disease and inherited cardiac conditions. He has been an advocate for the introduction of CCTA as the first line diagnostic test for stable chest pain in the UK and is a member of the NICE Adoption and Impact Programme Reference Panel for new technologies.

### **Prof Vanessa Ferreira**

Professor Vanessa Ferreira is British Heart Foundation Associate Professor of Cardiovascular Medicine, Deputy Director of the Oxford Centre for Clinical Magnetic Resonance Research (OCMR) and Honorary Consultant Cardiologist at the University of Oxford. She obtained her Bachelor of Science at the Massachusetts Institute of Technology (Cambridge, MA, USA), and Doctor of Medicine at the University of British Columbia (Vancouver, BC, Canada). She subsequently obtained a Doctor of Philosophy in Cardiovascular Medicine at the University of Oxford. She was a board member of the Society for Cardiovascular Magnetic Resonance (2016-2019), and serves on multiple SCMR committees. Prof Ferreira has expertise in quantitative CMR techniques, particularly parametric-mapping, and their clinical applications for management of cardiac patients.

### **Prof Darrel Francis**

Darrel Francis is a Professor of Cardiology at the National Heart and Lung Institute. He specializes in using quantitative techniques derived from mathematics, engineering and statistics to address problems that affect patients with heart disease. He trained in Medical Sciences at Cambridge University and trained as a Junior Doctor at the Oxford Radcliffe Trust, and developed a strong interest in understanding mechanisms, diagnosis and treatments in quantitative terms. He moved to Imperial College London for his thesis funded by a British Heart Foundation Junior Research Fellowship which developed mathematical techniques to analyse phenomena in cardiac dynamics and cardiorespiratory interaction where purely qualitative approaches may be misleading or confusing. He completed his clinical specialty training in Cardiology in London while setting up his research group.

## Dr Mark Hamilton

Consultant Cardiac Radiologist, University Hospitals Bristol 2005 onwards. BSCI committee 8 years 2007-15. RCR Professional Standards and Support Board 2015-18. RCR Faculty Board since 2019. 39 invited national and international lectures. 62 Pubmed publications. Coronary CT and acute aortic syndrome guidelines for BSCI.

## Dr Ben Holloway

Ben is a cardiothoracic radiologist from Birmingham with extensive experience in cardiac CT, CMR, cardiac nuclear and thoracic imaging. He has given numerous national and international lectures in cardiothoracic imaging and is involved with national cardiac CT trials. He is the past treasurer of the British Society of Cardiovascular imaging. QEHB has a large cardiothoracic imaging department supporting a nationally recognised tertiary referral service for cardiology (including TAVI) as well as cardiac and aortic surgery.

## Dr Andrew Kelion

Andrew Kelion has been a Consultant Cardiologist at the John Radcliffe Hospital in Oxford since May 2013, and prior to that worked at Harefield Hospital for 11 years. He has a particular clinical and research interest in nuclear cardiology and cardiovascular CT. Andrew is a former President, Treasurer and Secretary of the British Nuclear Cardiology Society. He currently chairs the Imaging Council of the BCS, and was previously chair of the Secretary of



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State for Transport's Honorary Medical Advisory Panel on Driving and Disorders of the Cardiovascular System. Andrew was also a Topic Expert on the NICE Committee which updated the Chest Pain of Recent Onset Guideline CG95. He has co-authored a number of influential national documents, including National Procedure Guidelines for Myocardial Perfusion Scintigraphy (2004 and 2013). Andrew is a regular contributor to many national training courses and conferences. He co-wrote the Oxford Handbooks of Nuclear Cardiology (first and second editions) and Cardiovascular CT (first edition).

## **Dr Jeremy Langrish**

Having started his medical career in Cambridge and Oxford, Dr Jeremy Langrish completed his general medical and specialty cardiology training in Edinburgh specialising in coronary intervention, and then completed a British Cardiovascular Intervention Society fellowship in Adelaide, Australia before being appointed as a consultant cardiologist at the John Radcliffe Hospital in 2016. He specialises in the treatment of complex coronary artery disease and is a Fellow of the Royal College of Physicians (Edinburgh).

## **Prof Paul Leeson**

Paul Leeson is Professor of Cardiovascular Medicine at the University of Oxford and Head of the Oxford Cardiovascular Clinical Research Facility as well as a Consultant Cardiologist at the John Radcliffe Hospital in Oxford. Following academic and medical training in Cambridge, London and Oxford he established a research group that has pioneered the development and application of novel imaging approaches within preventive cardiology research. He now works on some of the largest imaging studies in the world, runs a clinical trial programme to evaluate personalised approaches to cardiovascular risk reduction and in 2017 spun out Ultromics from Oxford University to enable technology developed by the group to be delivered back into the clinic.



## **Prof Virginia Luis Fuentes**

Prof Virginia Luis Fuentes graduated from the Cambridge Veterinary School and then spent 5 years working as a small animal vet in general practice before joining the Royal (Dick) School of Veterinary Studies in Edinburgh, where she obtained a PhD. She is board-certified in cardiology with the Royal College of Veterinary Surgeons, the American College of Veterinary Internal Medicine (ACVIM), and the European College of Veterinary Internal Medicine (ECVIM), and has worked as a veterinary cardiologist at the University of Missouri-Columbia and the Ohio State University. In 2004 she joined the Royal Veterinary College, University of London, where she is a Professor of Veterinary Cardiology. She was Chair of the ECVIM Cardiology Specialty from 2012-2018, and is currently Chair of the ACVIM Feline Cardiomyopathy Consensus Statement group.

## **Dr Fiona Macleod**

I am a consultant cardiothoracic radiologist appointed to the OUH NHSFT in 2001. I have a deep commitment to sharing learning with junior staff with regular teaching sessions every week. As cross sectional lead for in Oxford I supported the expansion of cardiac imaging to all hospital sites. Currently I am Clinical Director of Radiology in Oxford and work closely with radiology and cardiology colleagues to deliver an efficient and quality cardiac CT service.

## **Dr Leon Menezes**



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Leon is Lead in Nuclear Cardiology at the Bart's Heart Centre, and Consultant Radiologist and Nuclear Medicine Physician at University College London Hospitals. He read Physiology and Medicine at Oxford, trained in Clinical Radiology at Guy's & St. Thomas' and in Nuclear Medicine at University College London Hospital. He was previously a European Society of Radiology Fellow in Cardiac Imaging at La Sapienza, Rome. He is current President of the British Nuclear Cardiology Society. His clinical interests are in multi-modality and hybrid cardiac imaging, using SPECT and PET, with Cardiac CT and Cardiac MRI. His research interests involve the application of these hybrid modalities to both rare and common cardiovascular diseases, such as sarcoidosis, amyloidosis, atherosclerosis and infection, with funding from the Royal College of Radiologists and the British Heart Foundation.

## **Prof David Newby**

Professor David Newby graduated from the University of Southampton with a Bachelor of Science and Bachelor of Medicine degree in 1991. Professor Newby is British Heart Foundation John Wheatley Chair of Cardiology at the University of Edinburgh, Director of Research and Development for NHS Lothian, Director of the Wellcome Trust Clinical Research Facility, Director of the Clinical Research Imaging Centre, and a Consultant Interventional Cardiologist at Royal Infirmary of Edinburgh. He is the recipient of a Wellcome Trust Senior Investigator Award. For his research, Professor Newby was awarded the British Association of Pharmaceutical Physicians' Prize, the Croom Lectureship (Royal College of Physicians, Edinburgh), the BUPA research award for the best emerging clinical researcher in the UK, the John French Award (British Atherosclerosis Society), the Goodall-Strickland Medal (British Cardiovascular Society), the Parmley Prize (American College of Cardiology) and BMJ Research Awards 2014. He has written several successful educational books that have received major national awards (British Medical Association Book Awards, Highly Commended: Coronary Heart Disease: Your Questions Answered; Society of Authors, First Prize (Richard Asher Prize): Cardiology: An Illustrated Coloured Text). For his research, he and the British Heart Foundation

Centre for Cardiovascular Science were awarded the Queen's Anniversary Prize 2014-2016, and the British Medical Journal Imaging Team of the Year 2017. Professor Newby is Associate Editor of Heart and Chair for the development of the Scottish Intercollegiate Guideline Network (SIGN) guidelines for the management of acute coronary syndromes.

Professor Newby has major interests in experimental medicine and the advanced imaging of cardiovascular disease including coronary heart disease, aortic stenosis and heart failure. He has held British Heart Foundation Programme Grants exploring the atherothrombotic effects of air pollution, and has interests in the interaction between cardiac and respiratory diseases. He has been involved in several multicentre trials and has played a major role in the conduct of the SALTIRE (Scottish Aortic stenosis Lipid lowering Trial, Impact on REgression) and 3CPO (Health Technology Assessment trial of non-invasive ventilation for acute cardiogenic pulmonary oedema) trials. He currently holds a BHF Programme Grant exploring non-invasive coronary atherothrombosis imaging. He is Chief Investigator for the SCOT-HEART trial funded by the Chief Scientist Office; a national multicentre randomised controlled trial of computed tomography coronary angiography in patients attending the Rapid Access Chest Pain Clinic. He is also Chief Investigator of the National Institute for Health Research Efficacy and Mechanism Evaluation-funded MA3RS study: a multicentre trial of magnetic resonance imaging in abdominal aortic aneurysms. He is Chief Investigator of the Wellcome Trust-funded multicentre trial: Prediction of Recurrent Events with 18 F-Fluoride to Identify Ruptured and High-risk Coronary Artery Plaques in Patients with Myocardial Infarction (PRE 18 FFIR) trial, and the British Heart Foundation funded Dual Antiplatelet Therapy in Acute Coronary Syndromes in Scotland Trial.

## Dr Jim Newton

Dr Jim Newton qualified from the University of Leicester in 1998 then after a period of research undertook postgraduate training in Oxford. He was appointed as a consultant cardiologist with a specialist interest in



echocardiography and valvular heart disease in 2011. Jim has been involved in the assessment of patients before, during and after TAVI procedures from the first case performed in Oxford in 2008. Jim is also provides imaging support for Mitraclip, paravalvular leak, left atrial appendage occlusion and septal closure procedure. Jim Newton is a past council member of the British Society of Echocardiography with activity in training and education, and is the training program director for cardiology in the Thames Valley.

## **Dr Elizabeth Orchard**

Dr Elizabeth Orchard is a Consultant Cardiologist at Oxford University Hospitals NHS Foundation Trust. She has subspecialty interests in adult congenital heart disease, paediatric and adolescent cardiology, obstetric cardiology and pulmonary hypertension. She is the clinical lead for the ACHD Service and is the network lead for the Oxford Southampton paediatric cardiac network. She undertakes peripheral clinics monthly in Reading, Northampton and Jersey. Her research interests are mainly in mobile health technologies to improve patient care. She is a member of the British Congenital Cardiac Association and UK Maternal Cardiology Society. Special interests included congenital heart disease, paediatric cardiology, obstetric cardiology and pulmonary hypertension.

## **Dr Charles Peebles**

Dr Peebles is a Consultant Radiologist at the University Hospital Southampton with a specialist interest in Cardiothoracic imaging. He has a specific expertise in cardiac cross sectional imaging and is lead of the Department of Cardiothoracic Radiology at Southampton. He has been performing CMR since 1995 and Cardiac CT since 1999. Charles has previously been the President of the British Society of Cardiovascular Imaging, and has been a board member of the British Society of Cardiovascular MRI. He currently serves on the Executive committee of the European

Society of Cardiac Radiology. He has recently been on the NICE guideline committee for Acute chest pain and previously sat on the guideline development group for the management of stable angina.

## **Dr Heiko Peschl**

Dr Peschl is a Consultant Cardiothoracic Radiologist at Oxford University Hospitals, with an interest in Emergency and Intensive Care imaging. Dr Peschl completed his medical training in St Andrews and Cambridge and his radiology training in Oxford and Harefield Hospital. He undertook a clinical research fellowship in Oxford, further subspecialising in Thoracic and Cardiac Imaging and undertook research in the application of artificial intelligence in early recognition of lung cancer.

## **Prof Carl Roobottom**

Plymouth was the first centre to provide a clinical service for cardiac CT in the UK and is one of the largest providers nationally. Carl has published extensively on CTCA and helped develop the techniques and hardware for its provision.

## **Dr Nikant Sabharwal**

Qualified in Oxford. Trained in Cardiology in London and Oxford. Appointed Consultant Cardiologist in Oxford specialising in cardiac imaging (nuclear, CT & echocardiography) in 2009. Author of various peer reviewed papers in Nuclear Cardiology and Echocardiography, as well as Oxford Specialist Handbooks in Nuclear Cardiology and Valvular Heart disease. President British Nuclear Cardiology Society 2014-5



## Dr Matthias Schmitt

I graduated in 1994 from the Goethe University in Frankfurt and following junior doctor positions in Germany and the UK performed a PhD in Cardiff applying nuclear cardiology techniques to assess venous capacitance in heart failure. Subsequently, I finalised my Cardiology training in the North West Rotation complemented by an OOP Imaging Fellowship in Leicester where I truly benefitted from multi-disciplinary supervision by 2 Cardiologists and 3 Radiologists (Gerry McCann, Derek Chin, Richard Coulden, Chris Reek and Richard Keal) receiving training in advanced Echo, CMR, and cCT. Since 2008 I have worked as an Imaging Cardiologist at Wythenshawe, now part of Manchester University Hospital Trust, where I set up and previously lead a busy cross-sectional cardiac imaging service (>4000 CMR and 3000 cCT) providing cross-sectional imaging services for GM and RACPAC support for 4 GM Hospitals. Since 2020 I have reduced my NHS commitment to 2 days/week allowing me to focus on my backhand (which is a Dominic Thiem-like beauty) and research interests in equal measures.”

## Dr Thomas Semple

Dr Thomas Semple is a consultant cardiothoracic and paediatric radiologist at The Royal Brompton Hospital, London where he is clinical lead for congenital cardiac CT, and is an honorary consultant radiologist at Great Ormond Street Hospital. After studying at King's College London, Dr Semple completed his radiology training on the University College London training scheme before undertaking an academic fellowship at The Royal Brompton via the National Heart and Lung Institute, Imperial College London.

Dr Semple's clinical and research interests include optimization of paediatric cardiac CT –particularly for neonatal coronary imaging, childhood interstitial lung disease imaging, ventilation and pulmonary perfusion MRI and neonatal respiratory-gated imaging. Dr Semple has written original research and review articles covering a wide breadth of both paediatric and adult thoracic and cardiac imaging with several chapters in the paediatric and thoracic sections of the next edition of Grainger and Allison's Diagnostic Radiology.

## Dr Eleanor Wicks

Eleanor is a consultant cardiologist and clinical lead for the inherited cardiac conditions services at Oxford and is an honorary senior clinical lecturer at the University of Oxford. She has specialist interests in heart failure, multimodality imaging and in inherited and acquired cardiomyopathies including inflammatory cardiomyopathies (eg cardiac sarcoidosis and myocarditis). At a day-to-day level, she combines clinical leadership and service delivery with the operational management of a UK flagship, large multidisciplinary specialist team providing care to patients across the region and beyond and promotes the development and redesign of services to meet quality standards in line with national guidance and new evidence to deliver comprehensive services to all which meet the needs of patients.

Eleanor previously worked at Barts Heart Centre, the Heart Hospital and University College Hospitals, London where she transitioned her PhD on inflammatory heart muscle disease (including sarcoidosis) and multimodality imaging (including PETCT and PETMR) conducted at UCL into every day clinical practice. She trained at the University of Edinburgh where she graduated from in 2004 and completed her CCT in 2017.

Eleanor actively participates in collaborative clinical and academic research to promote accessible active research participation for all with heart failure or cardiomyopathies. She has published on a wide range of topics, is a member of the British and European Society of Cardiology and Myocardial and Pericardial Diseases Working Group and was

instrumental in the setting up of the European Registry for Cardiomyopathies. She is passionate about teaching and education and hopes to transform education and training locally.

## **Dr Jonathan Weir- McCall**

Jonathan is a University Lecturer at the University of Cambridge and an Honorary Consultant Cardiothoracic Radiologist at the Royal Papworth Hospital. His research interests lie in the use of CT and MRI for examining the interactions between arterial disease and cardiac function both within the systemic and the pulmonary circulation. He has worked on multiple multicentre trials on the clinical use of cardiac CT. He has also co-authored the SCCT guidelines on the role of CTA in the assessment for TAVR. He is a member of the Certification and Accreditation Committee of the European Association of Cardiovascular Imaging, and is an editorial board member for the Journal of Cardiovascular CT and Radiology: Cardiothoracic Imaging.



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