



# Simulator Training

## Simulation Training Centre

For the third year running the HRC2017 scientific committee have decided to offer simulation training as part of the programme. This will take place in the exhibition in the simulation training centre and will provide delegates with an opportunity to access high quality training, across a range of simulators.

Below is a list of the simulators available during HRC2017:

### Abbott's VT simulator

With the objective of providing practical, real-world experience in complex VT mapping through use of state-of-the-art virtual reality simulators in a consequence free environment.

The stand will provide hands on a virtual reality simulator allowing mapping of an ischaemic VT case via the Ensite Precision mapping system; including handling of mapping and ablation catheters, bipolar/unipolar voltage mapping, late potential mapping and fractionation mapping.

\*These simulators will have experienced senior consultants helping with the training\*

Monday 2 October, 14:00-16:00	
Tuesday 3 October, 09:00-11:00 & 14:00-16:00	Dr Simon James, Consultant Cardiologist - Middlesbrough UK

### Biosense Webster CARTO® 3 technology simulator

Biosense Webster are providing state of the art simulator sessions to help showcase our CARTO® 3 technology. These practical sessions provide a unique hands on experience of our new software CARTO® VisiTag Module with Ablation Index, optimised workflows for complex Atrial Tachycardia's or Ventricular Tachycardia's, and an introduction to our newest software; version 6 - ConfiDENSE™ Module with Ripple



Mapping . You will also have the opportunity to ask our expert CARTO® 3 users technical questions about the modules.

## **BIOTRONIK'S Marc the Torso simulator**

For the first time at HRC, BIOTRONIK introduce 'Marc the Torso' to the simulator area. Marc is an artificial thorax training model designed as a training tool for clinicians interested in the subcutaneous implantation of BIOTRONIK BioMonitor 2 (an insertable cardiac monitor - a unique ICM, capable of superior continuous sensing, and compatible with the only FDA/CE certified BIOTRONIK Home Monitoring available to healthcare professionals). The areas of the upper body presented in 'BIOTRONIK Marc the Torso' detail and include replica of the skin and subcutaneous tissue for a realistic implantation of BioMonitor 2, replica of the thorax with ribs, costal arch, sternum and spine, and a replaceable silicone thermogel incision pad, allowing for easy implant simulation. BIOTRONIK training personnel, and experienced BioMonitor 2 implanters from the UK, will accompany Marc the Torso enabling you to learn the techniques for a smooth insertion.

\*These simulators will have experienced senior consultants helping with the training\*

Monday 2 October, 14:00-16:00	Dr Riyaz Kaba, Consultant Cardiologist - Woking UK
Tuesday 3 October, 09:00-11:00	Dr Paul Foley, Consultant Cardiologist - Swindon UK
Tuesday 3 October, 14:00-16:00	Dr Mark Papouchado, Consultant Cardiologist - Bristol UK

## **Boston Scientific's Symbionix ANGIO Mentor simulator**

These simulators provide hands-on practice of lead implant procedures performed under fluoroscopy in the cath lab in a virtual reality simulated environment. The simulator's technology enables realistic visualization of the anatomy and instrument activity. This is combined with a high-end haptic system for visual and tactile feedback, which realistically mimics the look and feel of actual interventions. The system allows real time creation of continuous fluoroscopy, roadmap imaging, simulation of C-arm and patient's table manoeuvring using a control panel with the ability to store and browse images/sequence acquired.



The specific focus for CRM will be on brady lead placement/ICD lead placement and LV lead placement with different coronary sinus anatomies to practice on.

\*These simulators will have experienced senior consultants helping with the training\*

Monday 2 October, 14:00-16:00	Dr Michael Morley, Cardiologist - Wakefield UK
Tuesday 3 October, 09:00-11:00	Dr Mohan Virdee, Consultant Cardiologist - Cambridge UK
Tuesday 3 October, 14:00-16:00	Dr Mark Hall, Consultant Cardiologist - Liverpool UK

### **Medtronic's Symbionix simulator**

The Symbionix lead simulator will provide you with a screen and fluoro pedal with a 'body' which is a method of introducing different catheters and guide wires through one end. When you acquire fluoroscopy the screen will show the leads being placed selected via a connected laptop.

The variety of leads included cover IPG, ICD and CRTD implantation scenarios. The choice is yours!

The operator can manipulate the catheters and guide wires and in real time on the screen the leads will behave exactly during implant.

There is the option to use different stylets and guide catheters and there is the ability to virtually deploy active fixation leads.

### **How do I book?**

The training will be held in the Simulation Training Centre or on the stands themselves in the exhibition at the following times:

Monday 2 October		14:00-16:00
Tuesday 3 October	09:00-11:00	14:00-16:00



All sessions will last 30 minutes and will consist of a tutorial with an experienced trainer.

To book please email [becky@heartrhythmcongress.org.uk](mailto:becky@heartrhythmcongress.org.uk)

To check for late availability on the day, please report to the Simulator Training Centre during the specified session times.

### **Cancellation Policy**

Any cancellations should be made at least 24 hours in advance; any delegate who fails to attend a booked session will have any other booked sessions cancelled.

### **Acknowledgement**

Heart Rhythm Congress would like to thank, Abbott, Biosense Webster, BIOTRONIK, Boston Scientific and Medtronic for providing the simulators and technical support.

## **1 Oct 2017, Sunday-Patients Day**

\*NEW for this year - all registered attendees will be able to freely move between Patients Day sessions\*

### **AF Association Patients Day - Hall 8**

**Chair: Matthew Fay**

**Bradford UK**



10:00	Session 1-AF and AF-related stroke prevention	Matthew Fay	Bradford UK
10:30	Anticoagulation options, including self testing, which one and why?	Sharron Gordon	Southampton UK
11:00	Question time		
11:15	Break		
11:30	Risk factors for developing AF	Joe Martins	Dudley UK
11:50	AF and cardiovascular risk	Amitava Banerjee	London UK
12:10	AF:-Why me?	Trudie Lobban	Chipping Norton UK
12:30	Question time		
12:45	Lunch		
	<b>Chair: Nicholas Linker</b>		<b>Middlesbrough UK</b>
13:45	Session 3-Me and My symptoms	Matthew Fay	Bradford UK
14:05	Common symptoms of AF	Shona Holding	Bradford UK
14:35	My emotional health and AF	Shona Holding	Bradford UK
14:50	Rate control options for AF symptom management	John Campbell	Lincoln UK
15:05	Rhythm Management options	Nicholas Linker	Middlesbrough UK



15:20 Review of the day and close

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16:00 Close

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## STARS Patients Day - Hall 7



<b>Chair: Richard Sutton</b>			<b>Monte Carlo FR</b>
<b>Chair: Robert Sheldon</b>			<b>Calgary CA</b>
10:00	The patient's voice in the modern NHS	Trudie Lobban	Chipping Norton UK
10:20	Question time		
10:30	No faint is a simple faint: when to seek medical attention and intervention	Richard Sutton	Monte Carlo FR
10:50	Question time		
11:00	Similarities and differences between Syncope and PoTS	Robert Sheldon	Calgary CA
11:20	Question time		
11:30	Break		
11:45	Equal importance must be given to psychogenic loss of consciousness and vasovagal syncope	Boon Lim	London UK
12:05	Question time		



12:15	Evaluation of patients with autonomic dysfunction – what can we advance and stratify	Max Hilz	Erlangen DE
12:35	Question time		
12:45	Lunch		
	<b>Chair: Richard Sutton</b>		<b>Monte Carlo FR</b>
	<b>Chair: Rose-Anne Kenny</b>		<b>Eire IE</b>
13:45	RAS and the future	Jan Till	London UK
14:00	Question time		
14:10	Can cognitive behavioural therapy (CBT) work for me?	Morwenna Opie-Moran	London UK
14:25	Question time		
14:35	POTS, Syncope, and mindfulness (what it is and how to do it)	Vidya Raj	Calgary CA
14:50	Question time		
15:00	Palpitations and the fainting teenager	Tushar Salukhe	London UK
15:15	Question time		
15:25	Positive approach to falls in the elderly	Rose-Anne Kenny	Eire IE



15:40 Question time

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15:50 Summary

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16:00 Close

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## Arrhythmia Alliance Patients Day - Executive Room 1

<b>Chair: Kim Rajappan</b>		<b>Oxford UK</b>	
10:00	Heart Failure how will an ICD help	Jean Maloney	Sheffield UK
10:20	Inherited Cardiac Conditions	Kath Ashcroft	Leeds UK
10:40	Modern day ablation techniques	Will Foster	Worcester UK
11:00	Break		
11:15	Acute stress disorder in patients with repeated ICD firings	Vidya Raj	Calgary CA
11:35	S-ICD and Patient Device Choice	Graham Harper	London UK
11:55	The future of medical devices	James Fouhy	Clonmel IR
12:10	ICD deactivation and palliative care		
12:30	ICD Patient Story	David Morgan	Warwick UK
12:45	Lunch		



13:45	An overview of Arrhythmias	Julian Boullin	Dorset UK
14:05	Exercise and my ICD	Janice Bailey	Taunton UK
14:25	Driving and DVLA guidelines	Jacqueline Kemp	Taunton UK
14:50	What is an EP study	Kim Rajappan	Oxford UK
15:05	Drugs to Treat Arrhythmias	Sotiris Antoniou	London UK
15:20	Questions		
16:00	Close		

## 1 Oct 2017, Sunday-Scientific

### British Heart Rhythm Society Certification - Core - Hall 10a

<b>Chair: Andrew Turley</b>		<b>Middlesbrough UK</b>	
12:15	Exam Overview	Andrew Turley	Middlesbrough UK
12:30	Common ECG's in CRM	Colin Cunnington	Manchester UK
13:15	Drugs in Cardiology	Fozia Ahmed	Manchester UK
14:00	Land mark trials in CRM	Stuart Allen	Manchester UK



14:45 Break

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15:15 Intepreting EP signals Ian Wright London UK

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16:00 NICE & ESC guidance for devices and AF Andrew Turley Middlesbrough UK

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16:30 Quiz

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18:00 Close

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## EP Traces Course - Executive Room 2

	<b>Chair: Simon Modi</b>	<b>Liverpool UK</b>
	<b>Chair: Fakhar Khan</b>	<b>London UK</b>
	<b>Chair: Oliver Segal</b>	<b>London UK</b>
11:15	Welcome, course objectives and 'How to approach the unknown tracing'	
11:30	EP traces session 1	
13:00	Lunch	
13:30	EP traces session 2	
15:00	Break	
15:15	EP traces session 3	
16:45	Break	
17:00	EP traces session 4	
18:30	Close	



## 2 Oct 2017, Monday-Scientific

### Oral Abstracts 1 - Hall 7

	<b>Chair: Caroline Little</b>		<b>Swindon UK</b>
	<b>Chair: Ian Wright</b>		<b>London UK</b>
	Allied Professionals		
08:30	INVESTIGATING THE UTILITY OF SUBCUTANEOUS IMPLANTABLE CARDIOVERTER-DEFIBRILLATORS IN THE ADULT CONGENITAL HEART DISEASE POPULATION	Hannah Garside	Birmingham UK
08:45	PRE-EXISTING RIGHT VENTRICULAR PACED HEART FAILURE PATIENTS UPGRADED TO CARDIAC RESYNCHRONISATION THERAPY DEVICES: A RETROSPECTIVE ASSESSMENT OF THE FUNCTIONAL AND CLINICAL BENEFITS	Nadine Mark	Cambridge UK
09:00	IMPLEMENTATION OF OPPORTUNISTIC SCREENING AT PRE-ASSESSMENT CLINICS FOR UPGRADE/DOWNGRADE OF CARDIAC DEVICES	Asha Padwick	Coventry UK
09:15	REMOTE MONITORING OF ILRS, WHEN IS MORE TOO MUCH?	Gareth Pounds	Darlington UK



09:45	IS CARDIAC RESYNCHRONISATION THERAPY MORE EFFECTIVE IN FEMALES THAN MALES? A COMPARISON OF STH PATIENTS AND THE FINDINGS OF MADIT-CRT	Ashleigh Cresswell	Sheffield UK
10:00	Break		
	<b>Chair: Adrian Morley-Davies</b>		<b>Stoke on Trent UK</b>
	<b>Chair: Paulus Kirchhof</b>		<b>Birmingham UK</b>
	AF, AF-Related Stroke & Screening		
10:45	SAFE2SCREEN - CAN PATIENT INITIATED KIOSK-BASED SELF-SCREENING PROVIDE AN OPPORTUNITY TO IDENTIFY ATRIAL FIBRILLATION WITHIN A GP WAITING ROOM ENVIRONMENT?	Chris Crockford	Lancaster UK
11:00	PRIMARY CARE BASED OPPORTUNISTIC SCREENING FOR ATRIAL FIBRILLATION INCREASES DETECTION RATES	F De Vere	London UK
11:15	EARLY PROLONGED AMBULATORY CARDIAC MONITORING IN STROKE (EPACS) – AN OPEN-LABEL RANDOMISED CONTROLLED TRIAL	Amit Kaura	London UK
11:30	LEFT ATRIAL APPENDAGE OCCLUSION IN PATIENTS MEETING THE “COMMISSIONING THROUGH EVALUATION” ELIGIBILITY CRITERIA: HIGH ALL-CAUSE MORTALITY SEEN IN SPIE OF SUCCESSFUL DEVICE IMPLANT	Ahmed Masoud	Liverpool UK



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11:45	ATRIAL ARRHYTHMIA DETECTION BY IMPLANTABLE LOOP RECORDER IN PATIENTS WITH AND WITHOUT PREVIOUS STROKE; IMPLICATIONS FOR INVESTIGATING PATIENTS WITH UNEXPLAINED ISCHAEMIC STROKE	Panagiota Anna Chousou	Cambridge UK
12:00	ASSESSMENT OF CARDIAC ARRHYTHMIAS AT EXTREME HIGH ALTITUDE USING AN IMPLANTABLE CARDIAC MONITOR: REVEAL HA STUDY	Christopher Boos	Poole UK
12:15	Close		

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## STARS Syncope-different perspectives? - Hall 8a



<b>Chair: Richard Sutton</b>		<b>Monte Carlo FR</b>	
<b>Chair: Patricia Taraborrelli</b>		<b>London UK</b>	
08:30	A STARS perspective: what are the most common questions asked by patients with syncope?	Trudie Lobban	Chipping Norton UK
08:50	Pathophysiological mechanisms of Syncope : Why do I faint?	Richard Sutton	Monte Carlo FR
09:15	ABC of syncope management: Clinical vignettes	Sajad Hayat	Coventry UK
09:40	Update on rapid access blackout clinics	Nicholas Linker	Middlesbrough UK
10:00	Break		
10:45	Novel treatment strategies for syncope	Boon Lim	London UK
11:10	Can tilt table testing be a therapy? A nursing perspective	Patricia Taraborrelli	London UK
11:30	Debate: Is it time to update the TLOC NICE Guidelines - For	Paul Cooper	Manchester UK
11:50	Debate: Is it time to update the TLOC NICE Guidelines - Against	Nicholas Gall	London UK



12:10 Summary and close

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## Paediatric - Hall 8b

<b>Chair: Vinay Bhole</b>		<b>Birmingham UK</b>	
<b>Chair: Joseph de Giovanni</b>		<b>Birmingham UK</b>	
08:30	ECG changes in hypo and hypercalcaemia and its management on A&E, SCBU	Vinay Bhole	Birmingham UK
08:50	ECG changes in hypo and hyperkalaemia and its management on A&E, SCBU	Maria Ilina	Glasgow UK
09:15	ECG changes in antiarrhythmic toxicity and their management on A&E, SCBU	Joseph de Giovanni	Birmingham UK
09:40	Interpretation of exercise ECG and its value in diagnosis and management of arrhythmias and ischaemia	Graham Stuart	Bristol UK
10:00	Break		
<b>Chair: Neil Seller</b>		<b>Newcastle upon Tyne UK</b>	
<b>Chair: Orhan Uzun</b>		<b>Cardiff UK</b>	
10:45	Chronotropic incompetence, bradycardia and in patients with and without CHD: diagnosis and management	Jan Till	London UK
11:05	Inappropriate sinus tachycardia in children with anxiety, stress, drugs and autonomic dysfunction: diagnosis and management	Jasveer Mangat	London UK



11:25	Heart block in neonates and children: aetiology, investigation and management	Mark Walsh	Bristol UK
11:45	Investigation and management of syncope in children: practical approach for clinicians	Karen McLeod	Glasgow UK
12:15	Lunch		
	<b>Chair: Jan Till</b>		<b>London UK</b>
	<b>Chair: Graham Stuart</b>		<b>Bristol UK</b>
13:30	My nightmare bradycardia and pacemaker cases in the A&E	Dominic Hares	Leeds UK
13:50	My nightmare bradycardia and pacemaker cases in the cath lab	Graham Stuart	Bristol UK
14:10	My nightmare tachycardia cases in the SCBU	Vinay Bhole	Birmingham UK
14:35	My nightmare tachycardia ablation cases in the cath lab	Mark Walsh	Bristol UK
15:00	Break		
	<b>Chair: Jasveer Mangat</b>		<b>London UK</b>
	<b>Chair: Karen McLeod</b>		<b>Glasgow UK</b>
15:45	Case presentations		



15:45	NOT NARROW, NOT WIDE: A 15 YEAR OLD WITH RECURRENT EPISODES OF TACHYARRHYTHMIA	Rainer Fortner	Merthyr Tydfil UK
15:55	A PROFILE OF A UK PAEDIATRIC POPULATION WITH POSTURAL TACHYCARDIA SYNDROME	Lesley Kavi	Solihull UK
16:05	Questions		
16:10	Ventricular tachycardia in neonates and children with normal hearts: differential diagnosis and management	Neil Seller	Newcastle upon Tyne UK
16:35	Atrial tachycardia or sinus rhythm: how to differentiate and manage	Arthur Yue	Southampton UK
16:55	Unknown ECG, Holter, Pacemaker and ICD tracings	Eric Rosenthal	London UK
17:15	Close		



## Master Class Devices 1 - The Device Clinic - Hall 9

<b>Chair: Terry Dillon</b>		<b>London UK</b>	
<b>Chair: Alistair Slade</b>		<b>Truro UK</b>	
08:30	My ICD patient just received their first inappropriate shock: what do I do now?	Greg Smith	Sheffield UK
09:00	Programming ICD's and pacemakers - what does the evidence say?	Colin Cunningham	Manchester UK
09:30	Device detected AF - how much is significant and what do I do about it?	Stuart Harris	Basildon UK
10:00	Close		



## Nurses 1 - Hall 10b

	<b>Chair: Angela Hall</b>		<b>Jersey UK</b>
	<b>Chair: Shona Holding</b>		<b>Bradford UK</b>
08:30	Overview of Inherited Cardiac Conditions	Julian Ormerod	Oxford UK
09:00	Do all patients with AF need to be seen in secondary care? - The new AF pathway and our experience	Keith Tyndall	Leeds UK
09:30	Management of ICD shocks - a psychiatrist's perspective'	Vidya Raj	Calgary CA
10:00	Close		



## AF Association Improving AF Outcomes In the Lab - Hall 11

<b>Chair: Paulus Kirchhof</b>		<b>Birmingham UK</b>	
<b>Chair: Andrew Grace</b>		<b>Cambridge UK</b>	
08:30	AF ablation as the first line therapy for paroxysmal AF: about time?	Ross Hunter	London UK
09:00	Achieving Permanent Pulmonary Vein Isolation: is the Holy Grail of AF ablation within reach?	Moloy Das	Newcastle Upon Tyne UK
09:30	Atrial Scar delineation to guide individualised lesion prescription: role of MR and voltage mapping	Matthew Wright	London UK
10:00	Break		
<b>Chair: Dhiraj Gupta</b>		<b>Liverpool UK</b>	
<b>Chair: Andrew Grace</b>		<b>Cambridge UK</b>	
10:45	What role does thoracoscopic ablation have in AF management: a cardiologist's perspective	Dhiraj Gupta	Liverpool UK



11:10	Debate: The left atrial appendage should be electrically isolated during ablation for long standing persistent AF - Pro	Tom Wong	London UK
11:35	Debate: The left atrial appendage should be electrically isolated during ablation for long standing persistent AF - Con	Mark O'Neill	London UK
12:00	How Academic Health Science Networks are working together to reduce AF-related stroke.	Helen Williams	London UK
12:15	Close		



## Master Class Devices 2 - Hall 9

Chair: Stuart Allen		Manchester UK	
	Panel	Philip Moore	London UK
	Panel	Lucy Broadhurst	Rotherham UK
	Panel	Paul Doherty	Solihull UK
10:45	EGM interpretation part 1 - case studies		
11:30	EGM interpretation part 2 - case studies		
12:15	Close		



## Highlights on CRT - Supported by EHRA - Hall 10b

<b>Chair: John Camm</b>		<b>London UK</b>	
<b>Chair: Bela Merkely</b>		<b>Budapest HU</b>	
11:05	The Role of QRS Width	Bela Merkely	Budapest HU
11:25	CRT-P or CRT-D in Heart Failure	Aldo Rinaldi	London UK
11:45	Upgrade to CRT. Are there evidences?	Bela Merkely	Budapest HU
12:05	Questions		
12:15	Close		



## **MASTER CLASS: Sensor-Based CRT Optimisation: New Insights from the Respond- CRT Clinical Trial - Sponsored by LivaNova - Hall 3-Interactive Area**



	<b>Chair: Francisco Leyva</b>		<b>Birmingham UK</b>
	<b>Chair: Jonathan Sahu</b>		<b>Sheffield UK</b>
10:45	The final Answer from SonR	Francis Murgatroyd	London UK
11:15	What have we learned from patient sub-groups analysis	Ashish Patwala	Stoke on Trent UK
11:45	RESPOND System in practice - my experience	Klaus Witte	Leeds UK
12:15	Close		



## **Interactive ECG session. Some practical issues with everyday challenges in ECG interpretation - Hall 3-Interactive Area**

**Chair: Derek Rowlands**

**Cheadle UK**



## Young Investigators Competition - Hall 7

<b>Chair: Andre Ng</b>		<b>Leicester UK</b>	
	Judge	Francisco Leyva	Birmingham UK
	Judge	Pier Lambiase	London UK
	Judge	Andre Ng	Leicester UK
	Judge	Kim Rajappan	Oxford UK
	Clinical Science		
13:30	NON-INVASIVE DETECTION OF EXERCISE INDUCED CARDIAC CONDUCTION ABNORMALITIES IN SUDDEN CARDIAC DEATH SURVIVORS IN THE INHERITED ARRHYTHMIC SYNDROMES	Kevin Leong	London UK
14:00	A MULTI-CENTRE STUDY INTO THE USE OF RIPPLE MAPPING TO DIFFERENTIATE ATRIAL SCAR FROM CONDUCTING TISSUE DURING TACHYCARDIA ABLATION	Vishal Luther	London UK
14:30	THE END OF PRE-IMPLANT SUBCUTANEOUS ICD SCREENING? USING MATHEMATICAL VECTOR ROTATION TO GENERATE A PERSONALISED SENSING VECTOR RESULTING IN UNIVERSAL DEVICE ELIGIBILITY	Benedict Wiles	Southampton UK
15:00	Break		



Basic Science

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15:45	INSIGHTS INTO THE MECHANISMS OF TRIGGERED ACTIVITY DURING LONG QT CONDITIONS IN THE INTACT HEART USING OPTICAL MAPPING	Cherry Alexander	Glasgow UK
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16:15	CHARACTERISTICS OF ABLATED ROTORS IN TERMINATING PERSISTENT ATRIAL FIBRILLATION USING NON-CONTACT MAPPING	Xin Li	Leicester UK
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16:45	A NOVEL MAPPING SYSTEM FOR PANORAMIC MAPPING OF THE LEFT ATRIUM: VALIDATION AND APPLICATION TO DETECT AND CHARACTERISE LOCALISED SOURCES MAINTAINING AF.	Shohreh Honarkbakhsh	London UK
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17:15	Close		
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## STARS POTS and Syncope : A multifaceted approach - Hall 8a



<b>Chair: Satish Raj</b>		<b>Nashville US</b>	
<b>Chair: Robert Sheldon</b>		<b>Calgary CA</b>	
<b>Chair: Nicholas Gall</b>		<b>London UK</b>	
13:30	The multi-faceted nature of POTS, and treatment overview	Satish Raj	Nashville US
13:55	The lightning process: what is it and can it be applied to patients with POTS?	Phil Parker	London UK
14:20	A Cardiovascular approach to POTS	Nicholas Gall	London UK
14:40	Pain and POTS: Causes and management	Max Hilz	Erlangen DE
15:00	Break		
15:45	Chronic Fatigue, Myalgic Encephalomyelitis (ME) and POTS: What is the difference?	Julia Newton	Newcastle Upon Tyne UK
16:10	Resting supine hypertension and severe orthostatic intolerance. Management principles	Rose-Anne Kenny	Eire IE
16:30	The psychological profile of POTS: Managing anxiety and illness behaviour	Morwenna Opie-Moran	London UK



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16:50	Exercise Rehabilitation in POTS: How to make it work!	Jane Simmonds	London UK
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17:10	Summary and close		
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## Cases & Traces 1 - Hall 9

<b>Chair: Nicholas Kelland</b>		<b>Sheffield UK</b>	
<b>Chair: John Paisey</b>		<b>Bournemouth UK</b>	
13:30	The Quickest Way to a Man's Heart is ..... an EP Disaster	Simon Modi	Liverpool UK
13:40	Diagnosis and ablation of atypical flutter circuit utilising rim of ASD with a novel 3D electroanatomical mapping system	Steve Murray	Newcastle upon Tyne UK
13:50	Dual Tachycardia in a 13 year old - What are the mechanisms?	Claire Martin	Bordeaux FR
14:00	The many uses of alcohol	Donah Zachariah	Bristol UK
14:10	An unusual case of long R-P tachycardia	Donah Zachariah	Bristol UK
14:20	Utilising ablation to optimise cardiac resynchronisation therapy	Vishal Vyas	London UK
14:30	Amiodarone induced ischaemic optic neuropathy in atrial fibrillation patient after shorter time course	Abdalazeem Ibrahem	Bangor UK
14:40	Pre-excitation on the ECG: What lies beneath	Ian Wright	London UK
14:50	Interventional EP: Utilisation of the no-fluoroscopy technique in the EP lab	Lisa Leung	London UK



15:00	Break		
15:45	Is accessory pathway ablation enough in cardiac arrest survivors?	Richard Bennett	Bristol UK
15:55	A shocking case from a DGH	Will Foster	Worcester UK
16:05	Ventricular tachycardia - to the point	Justin Gould	London UK
16:15	Successful treatment of macro-reentrant atrial tachycardia with alcohol ablation of the vein marshall	Claire Martin	Bordeaux FR
16:25	The two faces of atrial flutter in newborns. Beware!!	Sakethram Saravu Vijayashankar	Cardiff UK
16:35	Animation beyond imagination; Electroanatomic mapping and ablation of an uncommon atrial tachycardia	Lisa Leung	London UK
16:45	EP Image: An isolated T-wave	Lisa Leung	London UK
16:55	Fitness trackers: friend or foe?	Edward Doris	Cramlington UK
17:05	Antidromic AVRT via right atrioventricular pathway	Anna Kefala	St Albans UK
17:15	Close		



## How to manage the Brugada syndrome Part 1 - AICC 1 - Hall 11



<b>Chair: Stephen Page</b>		<b>Leeds UK</b>	
<b>Chair: Sarju Mehta</b>		<b>Cambridge UK</b>	
13:30	How to diagnose Brugada syndrome: to provoke or not to provoke?	Elijah Behr	London UK
13:55	Discussion		
14:00	Is there a role for genetic testing?	Lia Crotti	Pavia IT
14:25	Discussion		
14:30	Can ablation offer a cure? The how and the why?	Koonlawee Nademanee	Los Angeles US
14:55	Discussion		
15:00	Close		



## How are the AHSNs meeting the challenge of Atrial Fibrillation? - Hall 3 - Interactive Area

<b>Chair: Helen Williams</b>		<b>London UK</b>	
13:30	The role of the AHSNs		
13:38	Business case model for AF		
	Examples of AHSNs projects in Atrial Fibrillation (AF) including:		
	DETECT		
13:46	Opportunistic AF Screening and Rapid Resolution, an Innovation Test Bed (Care City) experience	Sotiris Antoniou	London UK
13:54	Know your pulse, public awareness campaign	Nadya Hamedi	London UK
	PROTECT		
14:02	GP upskilling and AF clinical template	Karen Glover , Martin Cassidy	Nottingham UK, Nottingham UK
14:10	Introducing the Jack Video	Sharron Gordon	Southampton UK
14:20	Optimising Anticoagulation for AF in Primary Care	Helen Williams	London UK
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14:30	The pan-London AF toolkit	Faye Edwards	London UK
14:40	AHSN Network, National roll out of AF detection devices	Julia Reynolds	Warrington UK
14:55	Closing remarks		
15:00	Close		

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## Moderated Posters (1) - Hall 3 - Poster Area

**Chair: Ross Hunter**

**London UK**

**Chair: Chris Pepper**

**Leeds UK**



## How to manage the Brugada syndrome Part 2 - AICC 2 - Hall 11



<b>Chair: Jan Till</b>		<b>London UK</b>	
<b>Chair: Koonlawee Nademanee</b>		<b>Los Angeles US</b>	
15:45	Managing the paediatric Brugada patient	Eric Rosenthal	London UK
16:05	Discussion		
16:10	Debate: All patients with a type 1 pattern should receive an ICD implant - Pro	Derick Todd	Liverpool UK
16:25	Debate: All patients with a type 1 pattern should receive an ICD implant - Con	Pier Lambiase	London UK
16:40	Rebuttals		
<b>Chair: Amanda Varnava</b>		<b>London UK</b>	
<b>Chair: Nigel Wheeldon</b>		<b>Sheffield UK</b>	
16:45	1. How much ablation is needed in the Brugada syndrome?	Yanushi Wijeyeratne	London UK
16:55	2. Is SCN1B a real Brugada gene?	Belinda Gray	London UK



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17:05	3. Primary Prevention - Treat The Pyrexia!	Claire Brough	Liverpool UK
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17:15	Close		
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## Innovating Technologies to improve Patient Outcomes - Sponsored by Abbott - Hall 3-Interactive Area



<b>Chair: Tim Betts</b>		<b>Oxford UK</b>	
15:45	How to adopt new HF technologies		
16:05	Device selection - is it all about longevity		
16:30	Experience with EnSite Precision 3D mapping system and new tools including Sensor Enabled Contact Force ablation catheter	Francis Murgatroyd	London UK
17:15	Close		

## 3 Oct 2017, Tuesday-Scientific

### Nurses 2 - Hall 7

<b>Chair: Angela Hall</b>		<b>Jersey UK</b>	
<b>Chair: Shona Holding</b>		<b>Bradford UK</b>	
08:30	Medicines Optimisation and Medicines Adherence in AF	Rani Khatib	Leeds UK



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08:55	Cardiac physiologist led ILR service	Rob Bowes	Leeds UK
09:15	Implementing the use of vernakalant	Angela Hall	Jersey UK
09:35	Advanced Nurse Practitioner role: present/future	Sarah Young	Sussex UK
10:00	Close		

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## Cases & Traces 2 - Hall 8a

<b>Chair: Archana Rao</b>		<b>Liverpool UK</b>	
<b>Chair: John Paisey</b>		<b>Bournemouth UK</b>	
08:30	Lead displacement - never say never	Kate Sanders	Cambridge UK
08:42	Left ventricular lead implantation through a persistent left-sided superior vena cava: challenging anatomy and the need to snare	Francisco Leyva	Birmingham UK
08:54	Occult septal infarction presenting with syncope	Mark Taylor	Sunderland UK
09:06	Inappropriate shock in the early post-operative period in a patient with a subcutaneous cardiac defibrillator	Ben Mercer	Wakefield UK
09:18	Quiet timer blanking masking Ventricular Tachycardia a phenomenon that could have been predicted?	Christopher Monkhouse	London UK
09:30	Pro arrhythmic atrial pacing-how poor search av delay programming can trigger atrial flutter	Terry Dillon	London UK
09:42	Discussion		
10:00	Close		



**Medical dilemmas in anticoagulation - MDT  
Panel Discussion - Sponsored by Daiichi Sankyo  
- Hall 8b**



Dilemmas in DOACs looks at the case studies of difficult to treat patients from a the views of different health care professionals all treating the same patient from their specialist therapeutic approach.

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08:30 DOAC Medical Dilemmas - MDT panel discussion

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10:00 Close

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## Master Class Devices 3 - Getting the most out of CRT - Hall 9

	<b>Chair: Diane Barker</b>		<b>Stoke on Trent UK</b>
	<b>Chair: Gemma Harper</b>		<b>Epsom UK</b>
08:30	CRT HF diagnostics - How can i utilise them to manage my patient?	Fozia Ahmed	Manchester UK
09:00	Optimisation of CRT using device algorithms - when should we use them and how effective are they?	Ashish Patwala	Stoke on Trent UK
09:30	The 12 lead ECG in CRT - an essential guide	Philip Moore	London UK
10:00	Close		



## Cardiac Physiologist Meeting - Hall 11

<b>Chair: Holly Daw</b>		<b>London UK</b>	
<b>Chair: Stuart Allen</b>		<b>Manchester UK</b>	
08:30	Cardiac Physiologist workforce update	Mark Squirrell	London UK
09:00	BHRS standards - whats new?	Jason Collinson	Basildon UK
09:30	HSST in CRM	Lucy Broadhurst	Rotherham UK
10:00	Close		



## How can point-by-point RF ablation be further enhanced? - Sponsored by Biosense Webster - Hall 3 - Interactive Area



Chair: Vias Markides		London UK	
08:30	Close the gap in AF: why and how a reproducible RF ablation strategy makes the difference in obtaining effective and efficient lesion formation	Mark O'Neill	London UK
09:15	How an optimized workflow can standardize and simplify Afib procedures	Mark Gallagher	London UK
09:45	Q & A session		
10:00	Close		



## Plenary - Management of atrial fibrillation - perfecting care in 2017 - Hall 11

	<b>Chair: Kim Rajappan</b>		<b>Oxford UK</b>
	<b>Chair: Richard Schilling</b>		<b>London UK</b>
10:45	Detect - AF by a simple pulse check	Robert Sheldon	Calgary CA
11:15	Protect - against AF-related stroke using anticoagulation therapy	John Camm	London UK
11:45	Correct - the irregular rhythm with access to appropriate treatment	Riccardo Cappato	Milan IT
12:15	Close		



## Master Class Devices 4 - EGM Championship - Hall 3 - Interactive Area

	<b>Chair: Stuart Allen</b>	<b>Manchester UK</b>
	<b>Chair: David Begley</b>	<b>Cambridge UK</b>
	<b>Chair: Paul Doherty</b>	<b>Solihull UK</b>
12:30	Round 1 - Everyone	
13:00	Final - Top 10	
13:30	Close	



## Oral Abstracts 2 - Hall 7

<b>Chair: Malcolm Finlay</b>		<b>London UK</b>	
<b>Chair:</b>			
Devices / Congenital Heart Disease			
13:30	CLINICAL OUTCOMES OF CARDIAC RESYNCHRONIZATION THERAPY WITH OR WITHOUT DEFIBRILLATION IN NON-ISCHEMIC CARDIOMYOPATHY: IMPACT OF LEFT VENTRICULAR MIDWALL FIBROSIS.	Francisco Leyva	Birmingham UK
13:45	A MULTI-CENTRE UK CLINICAL EXPERIENCE WITH WIRELESS INTRACARDIAC LEFT VENTRICULAR ENDOCARDIAL STIMULATION FOR DELIVERY OF CARDIAC RESYNCHRONISATION THERAPY (WISE CRT).	Jonathan Behar	London UK
14:00	THROMBOEMBOLIC EVENTS IN LEFT VENTRICULAR ENDOCARDIAL PACING: LONG-TERM OUTCOMES FROM A MULTICENTRE UK REGISTRY	Vinit Sawhney	London UK
14:15	CIED LEAD EXTRACTION IN THE ELDERLY HAS LOW RISK	Amir Zaidi	Manchester UK
14:30	EMPIRIC VERSUS ENTRAINED CAVOTRICUSPID ISTHMUS LINE ABLATION IN CONGENITAL HEART DISEASE: A SINGLE CENTRE EXPERIENCE	Vinit Sawhney	London UK
14:45	LONG-TERM OUTCOMES OF SUPRAVENTRICULAR TACHYCARDIA ABLATION IN CONGENITAL HEART DISEASE: SINGLE CENTRE UK EXPERIENCE	Vinit Sawhney	London UK



15:00 Break

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Basic Science / EP Mechanisms

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15:45 FIRST EVIDENCE THAT DIFFERENCES IN THE T-WAVE UPSLOPE OF THE BODY SURFACE ECG REFLECT RIGHT TO LEFT DISPERSION OF REPOLARIZATION IN THE INTACT HUMAN HEART

Neil Srinivasan London UK

16:00 NEURO-CARDIAC PROFILING OF ELECTROPHYSIOLOGIC AND STRUCTURAL REMODELING IN AN IN-VITRO RABBIT HEART FAILURE MODEL

Shui Hao Chin Leicester UK

16:15 MARKERS OF DEPOLARIZATION ABNORMALITIES (FRAGMENTED QRS AND EARLY REPOLARIZATION PATTERN) IN PATIENTS WITH MYOCARDITIS.

Maria Gordeeva St Petersburg RU

16:30 LEFT ATRIAL VOLTAGE PREDICTS AF RECURRENCE AFTER ABLATION, IRRESPECTIVE OF THE RHYTHM DURING MAPPING, WHILE CIRCULATING BIOMARKERS OF FIBROSIS DO NOT.

Gordon Begg Leeds UK

16:45 REFINING THE DIAGNOSTIC CRITERIA OF THE POSTURAL ORTHOSTATIC TACHYCARDIA SYNDROME (POTS) USING POWER SPECTRAL INDICES

Arunashis Sau London UK

17:00 OPTIMISING THE PREDICTIVE CAPABILITY OF A MATHEMATICAL MODEL OF AF PROGRESSION USING CARDIAC DEVICE DATA

Eugene Chang Sheffield UK

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17:15 Close

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## Master Class EP 1 - Hall 8a

	<b>Chair: Holly Daw</b>		<b>London UK</b>
	<b>Chair: Shahnaz Jamil-Copley</b>		<b>Nottingham UK</b>
13:30	The role of the autonomic nervous system in arrhythmias	Boon Lim	London UK
14:00	Anterograde and retrograde properties during EP studies	Michael Fudge	London UK
14:30	Reset and entrainment as tools for differential diagnosis	Sajad Hayat	Coventry UK
15:00	Close		



## **GUCH 1 - Why do arrhythmias occur in congenital heart disease patients and what do I do about them? - Hall 8b**

<b>Chair: Adrian Morley-Davies</b>		<b>Stoke on Trent UK</b>	
<b>Chair: Vivienne Ezzat</b>		<b>London UK</b>	
13:30	AF in the ASD patient	Mark O'Neill	London UK
14:00	Atrial arrhythmias in the Fontan patient	Krish Nair	Toronto CA
14:30	Ventricular arrhythmias in the Fallot patient	Vivienne Ezzat	London UK
15:00	Close		



## Master Class Devices, Part 5 - Device & Lead Issues - Hall 9

	<b>Chair: Mark Mason</b>		<b>Harefield UK</b>
	<b>Chair: Helen Foley</b>		<b>Swindon UK</b>
13:30	Identifying and managing device and lead issues - Remote follow up an essential tool	Matthew Swift	Swindon UK
14:00	Dealing with device infections: Early diagnosis and best management strategies	Archana Rao	Liverpool UK
14:30	An extractors guide: implant technique and optimal lead choice	Amir Zaidi	Manchester UK
15:00	Close		



## Arrhythmia Alliance Improving care in patients with cardiac devices - Hall 11

<b>Chair: Jay Wright</b>		<b>Liverpool UK</b>	
<b>Chair: Andrew Turley</b>		<b>Middlesbrough UK</b>	
13:30	Alternatives to conventional transvenous pacing - what's available and what's to come	Paul Roberts	Southampton UK
14:00	Abandoning leads: when is it right, when is not?	Aldo Rinaldi	London UK
14:30	Non transvenous defibrillators - past, present and future	Riccardo Cappato	Milan IT
15:00	Break		
15:45	Lead management and CIED infection: what does the future hold?	Charles Kennergren	Goteborg SE
16:15	Device management in advanced heart failure - how to minimise shocks and manage deactivation	Stephen Pettit	Cambridge UK



16:45	Palliative care and anticipatory care planning in patients with device therapy	Karen Hogg	Glasgow UK
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17:15	Close		
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**The Devil's in the detail : Redefining complex circuits with ultra-high definition mapping - Sponsored by Boston Scientific - Hall 3 - Interactive Area**



<b>Chair: Derick Todd</b>		<b>Liverpool UK</b>	
13:30	'Basket Cases: How Rhythmia stopped me going mad!'	Steve Murray	Newcastle upon Tyne UK
14:10	Tackling challenging clinical scenarios using ultra high definition mapping	Arthur Yue	Southampton UK
14:40	Q&A		
15:00	Close		



## Moderated Posters (2) - Hall 3 - Poster Area

**Chair: Aldo Rinaldi**

**London UK**

**Chair: Nicholas Kelland**

**Sheffield UK**



## Master Class EP 2 - Hall 8a

<b>Chair: Norman Quereshi</b>		<b>London UK</b>	
15:45	Complex arrhythmias: Entrainment to identify sites for ablation	Ashley Nisbet	Bristol UK
16:15	Complex arrhythmias: Substrate-based approaches to ablation	Joseph de Bono	Birmingham UK
16:45	Complex arrhythmias: Interpreting electrogram timing and morphology	Norman Quereshi	London UK
17:15	Close		



## GUCH 2 - Difficult GUCH cases and how I dealt with them - Hall 8b

Chair: Martin Lowe		London UK	
15:45	SVT case	Sabine Ernst	London UK
16:05	Atrial flutter case	Graham Stuart	Bristol UK
16:25	VT case	Arthur Yue	Southampton UK
16:40	Device case	Henry Chubb	London UK
16:55	GUCH EP in 2017. Do we need a UK coordinated approach, and what is the best way of achieving this?	Martin Lowe	London UK
17:15	Close		



## Master Class Devices 6 - Hall 9

Chair: Adrian Morley-Davies			Stoke on Trent UK
15:45	Battery longevity should be the primary reason for device selection at implant-Protataganist	Holly Daw	London UK
15:45	Battery longevity should be the primary reason for device selection at implant-Antagonist	Ian Wright	London UK
16:30	DCM patients should receive CRTP not CRTD-Protataganist	Amir Zaidi	Manchester UK
16:30	DCM patients should receive CRTP not CRTD-Antagonist	Jay Wright	Liverpool UK
17:15	Close		



## Heart Rhythm Trainees - Hall 8a

<b>Chair: Aisha Opel</b>			<b>London UK</b>
17:30	Fellowships: Should I stay in the UK? Why, when and how?	Joseph de Bono	Birmingham UK
17:50	Fellowships: Should I go abroad? Why, when and how?	Ashley Nisbet	Bristol UK
18:15	Mastering the work-Life balance	Martin Lowe	London UK
18:35	EP: Past, present and future	Edward Rowland	London UK
19:00	Close		

## 4 Oct 2017, Wednesday-Scientific

### Oral Abstracts 3 - Hall 8a

AF Ablation

<b>Chair: Mark O'Neill</b>	<b>London UK</b>
<b>Chair: Arthur Yue</b>	<b>Southampton UK</b>



08:30	ABLATION OF LONGSTANDING PERSISTENT ATRIAL FIBRILLATION USING THE ACQMAP 3-D MAPPING SYSTEM - AN EARLY SINGLE CENTRE EXPERIENCE	Ewen Shepherd	Newcastle upon Tyne UK
08:45	IMPROVING TARGET IDENTIFICATION OF PERSISTENT ATRIAL FIBRILLATION ABLATION USING SIMULTANEOUS INTRACARDIAC MAPPING	Xin Li	Leicester UK
09:00	ACCURACY OF LEFT ATRIAL BIPOLAR VOLTAGES OBTAINED BY CONFIDENSE MULTIELECTRODE MAPPING IN PATIENTS WITH PERSISTENT ATRIAL FIBRILLATION	Baptiste Maille	Liverpool UK
09:15	THE IMPACT OF THE PRESENCE OF LEFT ATRIAL LOW VOLTAGE AREAS ON OUTCOMES FROM PULMONARY VEIN ISOLATION	Fiyfaz Ahmed-Jushuf	London UK
09:30	POWER, LESION SIZE INDEX AND OESOPHAGEAL TEMPERATURE ALERTS DURING ATRIAL FIBRILLATION ABLATION (PILOT-AF): A RANDOMIZED STUDY	Milena Leo	Oxford UK
09:45	Break		
	VT, EP & AF Ablation		
10:45	EFFECT OF ACTIVATION WAVEFRONT ON ELECTROGRAM CHARACTERISTICS DURING VENTRICULAR TACHYCARDIA ABLATION	Claire Martin	Bordeaux FR
11:00	MULTIMODALITY IMAGE RECONSTRUCTION AND FUSION TO GUIDE VT ABLATION		



11:15	APPLICATION OF THE NOVEL 'SHANGHAI' DIAGNOSTIC CRITERIA FOR BRUGADA SYNDROME REDUCES THE NUMBER OF DIAGNOSES WITH LOW RISK OF ARRHYTHMIC EVENTS IN INDEX CASES	Greg Mellor	Cambridge UK
11:30	DEVELOPMENT OF ATRIAL FIBRILLATION FOLLOWING ABLATION FOR TYPICAL ATRIAL FLUTTER CANNOT BE PREDICTED BY CONVENTIONAL RISK FACTORS; TIME FOR A RETHINK IN ABLATION STRATEGY?	M Mann	Liverpool UK
11:45	EVOLUTION OF PROMS DATA AND WHAT IT TELLS US ABOUT PATIENTS UNDERGOING CATHETER ABLATION FOR ATRIAL FIBRILLATION	J Girach	Leicester UK
12:00	ATRIAL FIBRILLATION ABLATION AS A DAY-CASE PROCEDURE: THREE-YEAR SINGLE-CENTRE EXPERIENCE	Stefano Bartoletti	Liverpool UK
12:15	Close		



## Future perspectives of patient optimization in heart failure - Sponsored by Boston Scientific - Hall 8b



<b>Chair: Martin Cowie</b>		<b>London UK</b>	
08:30	How can we treat more CRT-indicated patients with better outcome? The clinical and economic impact of longevity	Jay Wright	Liverpool UK
08:50	The Multisense trial: finally a new perspective for monitoring patients with heart failure	Roy Gardner	Glasgow UK
09:10	A multiparametric approach to efficiently manage patients with Heart Failure: the HeartLogic philosophy	Martin Cowie	London UK
09:30	Can we save time and maximize outcome with Smart CRT Programming at implantation and follow-up?	Alison Seed	Blackpool UK
09:50	Discussion	Martin Cowie	London UK
10:00	Close		



## AF Association Improving AF Outcomes Outside the Lab - Hall 9

<b>Chair: Dhiraj Gupta</b>		<b>Liverpool UK</b>	
<b>Chair: Tim Betts</b>		<b>Oxford UK</b>	
08:30	Is there such a thing as having too much choice? Which NOAC to choose for which patient?	Irina Savelieva	London UK
09:00	What constitutes a total contraindication to oral anticoagulation in the NOAC era? Who to refer on for Left Atrial Appendage Occlusion?	Tim Betts	Oxford UK
09:30	Heart Failure in AF: how important is rate control with Beta Blockers?	Dipak Kotecha	Birmingham UK
10:00	Break		
<b>Chair: Dhiraj Gupta</b>		<b>Liverpool UK</b>	
<b>Chair: Andre Ng</b>		<b>Leicester UK</b>	
10:45	Mobile Apps and Devices: How have these impacted on AF detection and management?	Andre Ng	Leicester UK



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11:15	Role of Biomarkers in stratifying stroke risk in AF; should the ABC score trump CHADSVASc score?	Dipak Kotecha	Birmingham UK
11:45	The relationship between AF burden and stroke risk: not what it seems?	Derick Todd	Liverpool UK
12:15	Close		

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## Arrhythmia Alliance Improving care in patients at risk of sudden cardiac death - Hall 11

<b>Chair: Pier Lambiase</b>			<b>London UK</b>
<b>Chair: Kim Rajappan</b>			<b>Oxford UK</b>
08:30	Sudden death post MI: epidemiology and risk	Andre Ng	Leicester UK
09:00	The role of the nurse specialist in SCD treatment/prevention	Craig Russell	Leeds UK
09:30	Management of recurrent VT: drugs and ablation	Prapa Kanagaratnam	London UK
10:00	Break		
10:45	ARVC: what's new in arrhythmia management	Stephen Page	Leeds UK
11:15	Cardiac sarcoidosis: managing risk of sudden cardiac death	Kim Rajappan	Oxford UK
11:45	The role of gene-based pharmacotherapy in preventing SCD - science fiction or reality?	Pier Lambiase	London UK
12:15	Close		



## The Zero Jargon Science Primer for Clinicians - Hall 8b

	<b>Chair: Malcolm Finlay</b>		<b>London UK</b>
	<b>Chair: Gwilym Morris</b>		<b>Manchester UK</b>
10:45	Reintroducing the Cardiac Action Potential - Everything You Need to Know But Were Too Afraid To Ask	Neil Herring	Oxford UK
11:00	How Fat Gives You AF - and what YOU can do about it	Fu Siong Ng	London UK
11:30	Stresses and Strains : the brain, the heart and autonomic feedback	Richard Ang	London UK
11:45	Traffic Jams and arrhythmias : causes and cures from ion channel trafficking	Stephen Harmer	London UK
12:15	Close		