



# Lifelong Learning

## EP Traces Course - Online

Chairs

Gwilym Morris,  
Simon Modi

Manchester, UK,  
Liverpool, UK

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Welcome, course objectives and 'How to approach the unknown tracing'

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EP Traces Session 1

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EP Traces Session 2

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EP Traces Session 3

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## Heart Rhythm Trainees (2) - Online

Chair: Heather Edwards, Nikhil Ahluwalia		Cardiff, UK, London, UK
Cardiac anatomy for the electrophysiology team	Samuel J. Asirvatham	Rochester, US
Venous access and navigating the coronary sinus: tips, tricks and troubleshooting for device implantation	Archie Rao	Liverpool, UK



## Basic Science Primer - Online

Chair: Malcolm Finlay		London, UK
Session 1. Is exercise going to ruin my heart?		
Bedside: Heart Rhythm troubles in high level athletes	Graham Stuart	Bristol, UK
Bench: Of mice, men and racehorses. How athletic training changes the electrics of the heart	Alicia D'Souza	Manchester, UK
Session 2. Why does our AF ablation sometimes fail?		
Bedside: "Is atrial fibrillation a developmental disorder?"	Andrew Grace	Cambridge, UK
Bench: Can embryonic development of the atria predispose to atrial fibrillation?	Vincent Christoffels	Amsterdam, NL
Session 3. How much do we know about treating ventricular tachycardia in structural heart disease?		
Bedside: "What is the real mechanism of VT in structural heart disease and how does it impact on treatment strategy?"	Saurabh Kumar	Sydney, AU
Bench: How ischaemia causes ventricular arrhythmia	Rachel Myles	Glasgow, UK



## Real World Cases - What would you do next - Online

Chair: Holly Daw		London, UK
Panel	Paul Doherty	Solihull, UK
Panel	Sophie Rooker	Manchester, UK



## Cardiac Physiology looking into the future - Online

Chair: Cristiana Monteiro		Oxford, UK
Physiologist led services - an update on innovation	Christopher Monkhouse	London UK
Relevance of research in Cardiac Physiology and PhD opportunities	Lucy Broadhurst	Rotherham, UK
The Digital Twin to enable the vision of precision cardiology	Blanca Rodriguez	Oxford, UK
Remote monitoring beyond ICD therapies - can I use it for all my device patients?	Matthew Swift	Swindon, UK



## Heart Rhythm Trainees (1) - Online

Chair: Heather Edwards, Nikhil Ahluwalia		Cardiff, UK, London, UK
Electrophysiology studies and ablation should only be performed in tertiary centres. (debate format with below)	Dhiraj Gupta	Liverpool, UK
District general hospitals should be providing electrophysiology studies and ablation. (debate format with above)	Steve Furniss	Eastbourne, UK
Collaboration, education and networking through social media: a guide for trainees	Bogdan Enache	Monte Carlo, MC
Investigation and risk stratification of patients with inherited primary arrhythmia syndromes	Pier Lambiase	London, UK



## Nurses - Online

Remote Clinics	Brett Sutherland	Yeovil, UK
Investigation of Palpitations in a Modern NHS	Matthew Fay	Bradford, UK
Virtual Reality in Device Implantation	Austin Gibbs	Jersey, UK
How Many Ectopics Count?	Daniel Ahlert	Jersey, UK
Streamlining Services for Pre-operative Patients with Arrhythmia	Jane Owen	Middlesbrough, UK
Advancing Therapies in Heart Failure	Henry Oluwasefunmi Savage	Basildon, UK
The Management of AF and Heart Failure	Sharon Toora	Basildon, UK
How Useful are Syncope Scoring Systems?	Sarah Clarke	Basildon, UK
Doctoral Research	Angela Griffiths, Angela Hall	Oxford, UK, Jersey, UK



## Digital Technology - Online

Chair: Nicholas Peters		London, UK
The ECG and Beyond - Machine-Learned Insights	Suraj Kapa	Rochester, US
Transforming Diagnostics - Combinatorial Digital Solutions	Fu Siong Ng	London, UK
Real World Cardiovascular Connected Care in The Wild	Fozia Ahmed	Manchester, UK





## Live EGM Championship - Online

Chair: Stuart Allen		Manchester, UK
Panel	Honey Thomas	Newcastle, UK
Panel	Paul Doherty	Solihull, UK



## **LIVE - Biotronik Symposia - Lightening the Load with Remote Cardiac Monitoring: smart technology, smart evidence, and smart digital health for device patients - Online**

Smart technology: the impact of device battery & the necessity of simple remote monitoring for patients

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Smart evidence: reviewing the RCTs of Remote Cardiac Monitoring

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Smart digital health: integration EHR for paperless clinics

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## **Patients Day**

### **Arrhythmia Alliance Patients Day - Online**



Palpitations and ectopic beats - when should I see my Dr?	Matthew Fay	Bradford, UK
Digital Technology - what impact will have on diagnosing and monitoring arrhythmia?		
Heart Failure	Vishal Luther	London, UK
CPVT - what's new?	Jan Till	London, UK



SVT - All you need to know	Kim Rajappan	Oxford, UK
Pacemakers and other devices	Mark Earley	London, UK
Ablations, medications or devices - how do I decide?	Faizel Osman	Coventry, UK
How does my arrhythmia affect those around me?	Helen Hodgson	Bath, UK
Living life to the full with an arrhythmia	Helen Eftekhari	Coventry, UK
How does Covid-19 affect arrhythmia patients? How might Covid-19 interact with arrhythmia medication?	Boon Lim	London, UK
Is Covid-19 more dangerous to those with inherited cardiac arrhythmias?	Simon Modi	Liverpool, UK
How might Covid-19 affect patients with heart failure?	Martin Cowie	London, UK
How might Covid-19 affect people with a device such as an ICD S-ICD or pacemaker?	Mark Earley	London, UK
How might Covid-19 affect those with CPVT	Jan Till	London, UK
What is Remote Monitoring, what is its future, and how can I access remote monitoring?	Shouvik Haldar	London, UK
How does Remote Monitoring help during the Covid-19 pandemic?	Shouvik Haldar	London, UK
What is a remote ECG and how can I access this technology?	Gust H. Bardy	Seattle, WA
What is an ICM and how does it work?	Kim Rajappan	Oxford, UK





## AF Association Patients Day - Online

AF & Associated conditions	Vishal Luther	London, UK
The FIVE types of AF - understanding the difference	Kim Rajappan	Oxford, UK
Digital Technology - what impact will have on diagnosing and monitoring arrhythmia?	Nicholas Linker	Middlesbrough, UK
Protection against AF-related stroke - Your choice	Matthew Fay	Bradford, UK
LAAO when oral anticoagulants are not for me	Dhiraj Gupta	Liverpool, UK
Rate vs Rhythm Control	Faizel Osman	Coventry, UK
What is risk factor modification?	Helen Eftekhari	Coventry, UK
Procedures to control AF	Will Foster	Worcester, UK
The many purposes of an ICM	Leeann Marshall	Coventry, UK
Helping yourself with AF	Angela Griffiths	Oxford, UK
Understanding devices for AF	Hugh Calkins	Baltimore, US
How does Covid-19 affect AF patients?	Boon Lim	London, UK
The use of anticoagulants during the Covid-19 pandemic	Matthew Fay	Bradford, UK
Covid-19 with AF and other conditions	Hugh Calkins	Baltimore, US



What is Remote Monitoring, what is its future and how can I access it?	Shouvik Haldar	London, UK
How does Remote Monitoring help during the Covid-19 pandemic?	Shouvik Haldar	London, UK
What is a remote ECG and how can I access this technology?	Gust H. Bardy	Seattle, WA
What is an ICM and how does it work?	Kim Rajappan	Oxford, UK



## STARS Patients Day - Online

Digital Technology - what impact will have on diagnosing and monitoring syncope?	Nicholas Linker	Middlesbrough, UK
Psychogenic Blackouts	Helen Eftekhari, Robert Sheldon, Will Foster	Coventry, UK, Calgary CA, Worcester, UK
PoTS or Syncope? - How to find the correct diagnosis	Will Foster	Worcester, UK
New Treatments on the horizon in the new decade	Boon Lim	London, UK
How does Covid-19 affect PoTS patients?	Nick Gall	London, UK
How does Covid-19 affect RAS patients?	Jan Till	London, UK
How does Covid-19 affect those with Syncope?	Helen Eftekhari, Robert Sheldon, Will Foster	Coventry, UK, Calgary CA, Worcester, UK
How might Covid-19 interact with medication?	Sotiris Antoniou	London, UK
How might Covid-19 affect people with a device such as an ICD, S-ICD or pacemaker?	Mark Earley	London, UK
What is Remote Monitoring, what is its future and how can I access remote monitoring?	Shouvik Halder	London, UK



How does Remote Monitoring help during the Covid-19 pandemic?

Shouvik Haldar

London, UK

What is a remote ECG and how can I access this technology?

Gust H. Bardy

Seattle, WA

What is an ICM and how does it work?

Kim Rajappan

Oxford, UK





## STARS Patients Day - PoTS - Online

PoTS and Associated Conditions (JHS Etc) - The link	Nick Gall	London, UK
PoTS and pregnancy	Lesley Kavi	Solihull, UK
PoTS in teenagers	Boon Lim	London, UK
Live your best life with PoTS	Helen Eftekhari	Coventry, UK
What is the best advice a doctor can offer?	Lesley Kavi	Solihull, UK
Diagnosing and treating PoTS		



## STARS Patients Day - RAS - Online

Causes of Syncope	Robert Sheldon	Calgary CA
RAS & Syncope - What's the difference?	Iain Parsons	London, UK
Associated conditions with RAS	William Whitehouse	Nottingham, UK
Syncope & Pacemakers	Helen Eftekhari	Coventry, UK
Managing a child with RAS		



## Industry Presentations - Online

Boston Scientific - What is an S-ICD and how does it work	Michael Parker	
Boston Scientific - Life with a Pacemaker	Rosemary Durcan	
AliveCor - Prevention for AF related strokes	Jen Bayly	Kent, UK
Medtronic - Atrial Fibrillation Patient Video - AF		
Icentia - New Generation ECG monitors – a patient update on home application	Sanjay Gupta	York, UK
Skylabs - CART-I, CARdio-Tracker, Ring-type heart monitor	Yumi Ji	Seoul, KR

## Syncope & Inherited Conditions

### STARS Symposia - Online

1) Basic Causes - Are there genetic causes?	Robert Sheldon	Calgary CA
1) Basic Causes - The importance of hypotension in vasovagal syncope	Richard Sutton	Monte Carlo, MC
2) When history fails - STARS Update		



2) When history fails - Nondescript syncope in people under 50: When to worry about lethality	Boon Lim	London, UK
2) When history fails - Nondescript syncope in people over 50: Tilt test or Implanted Monitor	Nick Gall	London, UK
3) The patient in the emergency department - Outcomes of syncope patients who present to the emergency department	Padma Kaul	Alberta, CA
3) The patient in the emergency department - Syncope units: purpose, classification, standards	Rose Anne Kenny	Dublin, IE
3) The patient in the emergency department - Syncope Units: why are they uncommon in Canada and the United States?	Roopinder Sandhu	Alberta, CA
4) Getting the treatment right - Should we target syncope, quality of life, or anxiety?	Vidya Raj	Calgary, CA
4) Getting the treatment right - Diet, postures, or drugs: which and when?	Satish Raj	Calgary, CA
4) Getting the treatment right - Pacemaker treatment: how to reconcile SPAIN and ISSUE 3?	Artur Fedorowski	Lund, SE
4) Getting the treatment right - Ablation for vasovagal syncope: hope or hype?	Jose Pachon-M	São Paulo, BR



## AICC (1) - Online

Lamin cardiomyopathy: a review and guidance for ICD management	Perry Elliot	London, UK
Non Lamin genotypes in arrhythmogenic cardiomyopathy	Tessa Homfray	London, UK
The role of genetics in decision making on sports participation	Graham Stuart	Bristol, UK



## AICC (2) - Online

An update on the muscular dystrophies

New therapies for Freidriechs Ataxia

Piers Daubeney

London, UK

Device decision making in myotonic dystrophy

## Clinical EP

### A-A Symposia 1 - Online

His bundle pacing - tips and tricks

Zachary Whinnett

London, UK

Leadless pacemakers - should we be implanting more?

Paul Roberts

Southampton, UK

Lifestyle intervention for AF needs greater emphasis than catheter ablation

Wajid Hussain

London, UK

Asymptomatic PAF episodes on (<24-hour duration) cardiac device: whats the threshold for anticoagulation?

Paulus Kirchhof

Hamburg, DE

EAST - AF NET 4 Study

Paulus Kirchhof

Hamburg, DE

Artificial Intelligence in AF detection

Wajid Hussain

London, UK



Consumer devices for AF detection - use and limitations

Shouvik Halder

London, UK

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## AF Detection in 2020 - Online

Introduction	Martin Cowie	London, UK
A quick run through of the technologies available	Arvind Singhal	London, UK
What research is currently underway?	Jonathan Mant	Cambridge, UK
Panel discussion	Lis Neubeck, Martin Cowie	Edinburgh, UK, London, UK





## Arrhythmias after Cardiac Surgery - Online

Chair: Niall Campbell		Manchester, UK
A Cause for PANIC? [Prevalence And Nature, Impact & Cost)	Neil Roberts	London, UK
Risk Factors - a surgeon's perspective	Stuart Grant	Manchester, UK
What helps and what is the evidence?	Benjamin O'Brien	London, UK
The Tight-K study - do potassium levels matter after cardiac surgery?	Niall Campbell	Manchester, UK



## Arrhythmias & Heart Failure - Online

Chair: John Camm		London, UK
Reducing the risk of arrhythmia in heart failure	Klaus Witte	Leeds, UK
Treating AF in someone with heart failure: which options for which patient?	Richard Schilling	London, UK
Treating and preventing ventricular arrhythmia in someone with heart failure	Aldo Rinaldi	London, UK



## A-A & EHRA Symposia - The Ventricular Premature Contraction - Online

Chair: Alistair Slade		Cornwall, UK
Introduction	John Camm	London, UK
Mechanisms of VPC generation	Andrew Grace	Cambridge, UK
VPCs and Sudden Cardiac Death in Structural Heart Disease	Jose Luis Merino	Madrid, ES
VPCs and Sudden Cardiac Death in Channelopathies	Elijah Behr	London, UK
VPCs and Left Ventricular Impairment	Karl-Heinz Kuck	Hamburg, DE
Conclusion	Alistair Slade	Cornwall, UK



## A-A Symposia (2) - Online

Have we forgotten the bi-atrial aspect of AF when it comes to ablation?	Tim Betts	Oxford, UK
Re-defining the VT substrate with multielectrode mapping	Claire Martin	Cambridge, UK
Catheter ablation in octogenarians and beyond - is it safe?	Ashley Nisbet	Bristol, UK
How to harness high power short duration ablation to maximise efficacy:safety ratio	Dhiraj Gupta	Liverpool, UK
Is there a role for surgical ablation in AF?	Tom Wong	London, UK
The role of posterior wall isolation in persistent/long-standing persistent AF	Guy Haywood	Plymouth, UK



## Year in Review (1) - Online

Chair: Andy Turley		Middlesbrough, UK	
Management of device infections	Chris Pepper	Leeds, UK	
Leadless Devices (ILR, pacing, ICDs, CRT-EBR)	Archie Rao	Liverpool, UK	
Heart Failure for the CRM Specialist	Roy Gardner	Glasgow, UK	



## Year in Review (2) - Online

Chair: Andy Turley		Middlesbrough, UK
Atrial Fibrillation	Dewi Thomas	Swansea, UK
Pharmacological advances in EP	Joseph de Bono	Birmingham, UK
Whats new in risk stratification (ARVC, Long QT, HCM, Brugada, Sarcoid)	Pier Lambiase	London, UK



## AF Symposia - Online

Risk factors: The elephant in the room. Identification, modification, compliance and the impact on AF outcomes	Stephanie Harrison	Liverpool, UK
AF screening and identification: Implact and cost-effectiveness; Literature to date. Watches, personal devices, patches and implantables	Yutao Guo	Beijing, CN
Challenging OAC scenarios: a selection of case studies covering unusual risk factors, bleeding scenarios, triple therapy post-PCI, LAAO, pill-in-pocket OAC, Low AF burden or duration	Moloy Das	Newcastle, UK
AF and heart failure - untangling the Gordian knot and making practical sense of it all	Derick Todd	Liverpool, UK
How to manage AF in unusual settings – General ITU, post cardiac surgery, thyrotoxicosis, the athlete, the child/young adult, channelopathies.	Joseph de Bono	Birmingham, UK
AF basic electrophysiology and pathophysiology for the clinician – what we need to know (and why)	Gwilym Morris	Manchester, UK
Debate: AF ablation is overused and expensive and should be restricted to patients with disabling symptoms as identified by PROMS		
Pro	Ross Hunter	London, UK
Con	Jack McCready	Brighton, UK



## Fundamentals of EP & Ablation - Online

Chair: Ian Wright		London, UK
How did we get here? A potted history of EP and ablation	Elaine Lim	London, UK
AVNRT: a simple arrhythmia?	Ashley Nisbet	Bristol, UK
When the going gets tough: difficult differential diagnoses	Louisa Malcolm-Lawes	London, UK
Borrowing techniques from EP to interpret device EGMS	Michael Fudge	London, UK





## Ventricular arrhythmia ablation - from VE to VT - Online

Chair: Joseph de Bono		Birmingham, UK
VEs and LV dysfunction: chicken or egg?	Claire Martin	Cambridge, UK
Ablation of non-RVOT VEs	Sajad Ahmed Hayat	Qatar, QA
VT ablation in structural heart disease: who, why, when and how?	Vishal Luther	London, UK
Multi-disciplinary VT clinics	Christopher Monkhouse	London UK



## BHRS Session (2) - Online

<b>Chair: Ross Hunter</b>		<b>London, UK</b>
<b>Chair: Joseph de Bono</b>		<b>Birmingham, UK</b>
Mapping Atrial Fibrillation-Where have we come from?	Ross Hunter	London, UK
Mapping Atrial Fibrillation-Where are we going to?		
Ventricular Tachycardia-Applying evidence to selection of patients	Magdi Saba	London, UK
Ventricular Tachycardia Ablation-Top tips for procedural success	John Silberbauer	Brighton, UK
PVI Alone Should be the Default Ablation Strategy in First Time Persistent AF Ablation - Pro	John Paisey	Southampton, UK
PVI Alone Should be the Default Ablation Strategy in First Time Persistent AF Ablation - Con	Manish Kalla	Birmingham, UK



## Baylis Medical - Zero AF

ZERO Fluoro transseptal access Results from a pilot trial

Sabine Ernst

London, UK

## Paediatric

### Paediatric Session - Online

Session Coordinator	Orhan Uzun	Cardiff, UK
1) Optimum PM settings to prevent PM induced CHF in infants & toddler	Vinay Bhole	Midlands, UK
1) Pacemaker syndrome in children: diagnosis and treatment	Karen McLeod	Glasgow, UK
1) Optimum ICD programming to prevent inappropriate shocks in children	Joseph De Giovanni	Birmingham, UK
2) Ebsteins anomaly preexcitation and management	Neil Seller	Newcastle, UK
2) Post Fontan tachycardias and management	Jasveer Mangat	London, UK
2) PJRT and best timing for RFA	Mark Walsh	Dublin, IE
3) Bradycardias in the fit and mighty: when should we be worried?	Graham Stuart	Bristol, UK



3) Bradycardias in the meek and twiggy: what to do?	M Cecilia Gonzalez Corcia	Bristol, UK
3) Bradycardias in the inherited channelopathies and their solutions	Jan Till	London, UK
4) Diagnostic classification and criteria for paediatric syncope	Alpay Celiker	Istanbul, TR
4) How to tease out fakers versus true fainters?	Maria Ilina	Glasgow, UK



## GUCH 1 - Online

GUCH anatomy for dummies	Yen Ho	London, UK
How to overcome anatomical challenges in GUCH ablation: access, mapping, and lesion delivery	Ashley Nisbet	Bristol, UK
Targeting the electrophysiological substrate in GUCH ablation	Arthur Yue	Southampton, UK



## GUCH 2 - Online

Risk stratification of sudden death in adult congenital heart disease	Gary Wright	Glasgow, UK
Cardiac resynchronization therapy in congenital heart disease	Sayqa Arif	Birmingham, UK
How to tackle challenges in device therapy: current techniques and future promises	Eric Rosenthal	London, UK

## Devices

### CRM & Heart Failure - Online

Chair: Andy Turley		Middlesbrough, UK
1) HF medication and impact on sudden death rates/survival	John McMurray	Glasgow, UK
1) Mode of death in device patients	Roy Gardner	Glasgow, UK
1) Mitraclip or CRT for treatment of severe MR	Tim Betts	Oxford, UK
2) CRT-P or CRT-D in heart failure. Time for a rethink?	Mark Petrie	Glasgow, UK
2) Telemedicine and heart failure: An update	Martin Cowie	London, UK



2) Optimal management of AF/ectopy in heart failure

Derick Todd

Liverpool, UK

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## Device Related Complications - Online

Chair: Will Foster		Worcester, UK
Best Practice to Avoid and Reduce the Complications from Cardiac Devices	Colin Cunnington	Manchester, UK
Cardiac Device Related Infections: Investigations, Diagnosis, Initial Treatment	Fozia Ahmed	Manchester, UK
Cardiac Device Extractions: Who, Where and When should we extract devices	Aldo Rinaldi	London, UK





## Physiology Pacing Session - Online

Physiologic Pacing- Innovations, Data and Implant technique	Badri Chandrasekaran	Swindon, UK
Determination of Selective/Non selective/Septal capture	Marek Jastrzębski	Krakow PL
HBP in practice, optimal device programming and clinic	Matthew Swift	Swindon, UK



## BHRS Session (1) - Online

Chair: Aldo Rinaldi		London, UK
Lead Extraction-Which Patients to Refer	Aldo Rinaldi	London, UK
Lead Extraction-Current Techniques	Ashish Patwala	Stoke, UK
His Bundle Pacing-Its Place in Current Clinical Practice	Paul Foley	Swindon, UK
Leadless Pacing in the RV	Paul Roberts	Southampton, UK
LV endocardial US Pacing	Andy Turley	Middlesbrough, UK
SICD's Should be the Default Option for Primary Prevention - Pro		
SICD's Should be the Default Option for Primary Prevention - Con		



## Live CRT Optimisation - Online

Panel	Matthew Swift	Swindon, UK
Panel	Cristiana Monteiro	Oxford, UK



## MicroPort CRM cases & traces - Online

Pacemakers & ICDs troubleshooting : interpretation & programming	Sonia Thareau	Chester, UK
Arrhythmia discrimination in ICDs : a case study	Chris King	Chester, UK
CRTD case: from a non responder patient to a responder with the SonR system	Andrew Rapson	Chester, UK



## **Biotronik - Implantable Cardiac Monitor of 2020: P wave visibility AND 99% noise free? Review of BIOMONITOR III.**

Chair - review of challenges in todays practice	Riyaz Kaba	London, UK
BIOCONCEPT evidence	Guy Furniss	Taunton, UK
Implant & closure recommendations	Riyaz Kaba	London, UK
BMIII in practice	Clare Atha	Bournemouth, UK
Summary & poll	Riyaz Kaba	London, UK

## **Plenary**

### **The Adam Fitzpatrick 2020 HRC Plenary Session: Syncope, Arrhythmia And Heart Failure Management - Past, Present, & Future - Online**

<b>Chair: Kim Rajappan</b>		<b>Oxford, UK</b>
<b>Chair: Alistair Slade</b>		<b>Cornwall, UK</b>
Syncope services in the UK – from rags to riches	Richard Sutton	Monte Carlo, MC



Rhythm control of atrial fibrillation – pharmacology still has a role

John Camm

London, UK

Heart failure – how often do we need to see the patient?

Martin Cowie

London, UK

## Young Investigator Competition, Oral Abstracts, Best Posters & Cases & Traces

### Young Investigators Competition - Online

Chair: Fu Siong Ng		London, UK
Judge	Pier Lambiase	London, UK
Judge	Rachel Myles	Glasgow, UK
Judge	Neil Herring	Oxford, UK
A comparison of ablation techniques to treat atrial fibrillation using a virtual cohort of patient-specific left atrial models.	Marianne Beach	London, UK
Enhancing Mutant IKS Channel Activity By Altering Endogenous Pip2 Levels And Its Interaction With PKA Signalling Pathway	Vriraj Sinhji Rathod	London, UK



SK3 channels downregulation through antisense oligonucleotides confers potential protection against atrial fibrillation in rats	Luca Soattin	Manchester, UK
Risk of mortality following Catheter Ablation of Atrial Fibrillation in a UK centre	Vijayabharathy Kanthasamy	London, UK
Ganglionated Plexus Ablation to Prevent Atrial Fibrillation (GANGLIA-AF)	Min-young Kim	London, UK
The potential clinical utility of quantitative assessment of dynamic ST changes during 12-lead 24-hour ambulatory ECG in the Brugada Syndrome. A sub-study of the BHF RASE Brugada project.	Chiara Scrocco	London, UK



## Cases & Traces - Online

<b>Chair: Archie Rao</b>		<b>Liverpool, UK</b>
<b>Chair: Nick Kelland</b>		<b>Sheffield UK</b>
<b>Chair: Dewi Thomas</b>		<b>Swansea, UK</b>
<b>Chair: Ian Wright</b>		<b>London, UK</b>
An Interesting Case of Artifact During DFT Testing of a Subcutaneous ICD	Lawrence Whittaker	Middlesbrough, UK
A curious case of non-sustained RV oversensing	Alice Lipson	Bournemouth, UK
The Stellate Ganglion Block in Non-Ischemic Ventricular Tachycardia Storm	Bakhodir Narziev	Tashkent, UZ
Low frequency attenuation filter as a reversible cause of inappropriate shocks due to diaphragmatic myopotential oversensing	Peysh Patel	Leeds, UK
Clap for the NHS	Maysah Salman	Belfast, UK
The hidden monster: Looks like VT....but mysteriously not!	Maysah Salman	Belfast, UK
Right ventricular lead perforation: a missed diagnosis?	Nandita Kaza	London, UK
Pathway mapping epiphany courtesy of Biosense Webster Sonny Jackman and the SARS-COV-2 pandemic	Charlotte Brazier	Plymouth, UK





Air and subcutaneous implantable cardioverter  
defibrillator (S-ICD): A shocking combination

Gaurav Panchal

Birmingham, UK

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## Oral Abstracts (1) - Online

### Allied & Service Development

ADAPTING TO THE NEW NORMAL - EARLY EXPERIENCE OF ADOPTING REMOTE MONITORING FOR PATIENTS WITH PERMANENT PACEMAKERS	Jason Colinson	Basildon, UK
OUTCOMES FROM A CARDIAC CLINICAL SCIENTIST-LED CLINIC FOR PATIENTS WITH IMPLANTABLE CARDIAC DEVICES PRIOR TO ELECTIVE GENERATOR REPLACEMENT	Katie Sanders	Cambridge, UK
Two weeks notice? 5000 face to face appointments? COVID 19- We can make it work!	Sophia Jones	London, UK
PREVENTION OF AF RELATED STROKE THROUGH APPROPRIATE TREATMENT WITH ANTICOAGULATION, A NEW CENTRALISED PHARMACIST MODEL IN HARINGEY PRIMARY CARE NETWORKS	Asra Ahmed	London, UK
DEVICE INTERVENTIONS DURING COVID-19: A TERTIARY CENTRE STRATEGY FOR PRIORITISING HIGH RISK PATIENTS	Laura Bayliss	London, UK
Comparisons of patient management in the COVID era the patients perspective	Carina De' Oliveira	London, UK
AF - clinical		
ATRIAL FIBRILLATION IN THE UNITED KINGDOM: RECOGNISING AND FORECASTING THE COST DRIVERS OF ATRIAL FIBRILLATION-RELATED COSTS	Paul Burdett	Liverpool, UK



Efficacy and predictors of Nurse led same day discharge in patients undergoing Atrial Fibrillation ablation in a District General Hospital	Yasmin Kassir	Eastbourne, UK
Same-day discharge following catheter ablation of atrial fibrillation: a safe and cost-effective approach	Antonio Creta	London, UK
Medium term Outcomes of Left Atrial Appendage Occlusion in high-risk AF patients: 4-year follow up data	Wern Yew Ding	Liverpool, UK
Long term outcomes of second-generation cryoablation without electrical mapping in paroxysmal atrial fibrillation patients.	Christopher Uy	Eastbourne, UK
THE IMPACT OF ATRIAL FIBRILLATION ON THE DIAGNOSTIC YIELD OF HEART FAILURE WITH REDUCED EJECTION FRACTION BY OPEN ACCESS ECHOCARDIOGRAPHY	Brain Li	Basildon, UK



## Oral Abstracts (2) - Online

### Highest Scoring Abstracts

Reduction in healthcare utilization associated with the use of ablation index guided pulmonary vein isolation	Dhiraj Gupta	Liverpool, UK
Dynamic High-Density Functional Substrate Mapping Improves Outcomes In Ventricular Tachycardia Ablation	Neil Srinivasan	London, UK
Intentional Coronary Vein Exit and Carbon Dioxide Insufflation to Facilitate Epicardial Access for Ventricular Tachycardia Ablation: a Multicentre Registry.	Justo Julia Calvo	Brighton, UK
Catheter ablation of accessory pathways; the influence of anatomical location and requirement for multiple procedures to achieve lasting success	Md Sarwar Alam	Nottingham, UK
Effects of Obesity on Long-Term Outcomes of Catheter Ablation in Atrial Fibrillation	Wern Yew Ding	Liverpool, UK
Arrhythmia mechanisms		
Factors affecting Pacing induced Left Ventricular dysfunction; A retrospective case- control study.	Vijayabharathy Kanthasamy	London, UK
HIS-BUNDLE PACING ARE WE IDENTIFYING ALL ELIGIBLE PATIENTS?	Rahul Chattopadhyay	Cambridge, UK
BODY SURFACE POTENTIAL MAPPING IS NO MORE SENSITIVE THAN 12-LEAD ECG FOR MEASURING VENTRICULAR REPOLARISATION IN OBESE INDIVIDUALS	Ross Davidson	London, UK



A COMPREHENSIVE ASSESSMENT OF ATRIAL  
ARRHYTHMOGENESIS IN ASD PATIENTS

Louisa O'Neill

London, UK

Adipose tissue depots demonstrate variation in  
adipokine profile: a method to investigate the  
mechanisms underpinning arrhythmogenesis in  
obesity.

Curtis Liebers

London, UK

MACHINE LEARNING CAN BE USED TO IDENTIFY  
CELLULAR UNCOUPLING FROM THE CONTACT  
ELECTROGRAM IN INTACT HUMAN AND PORCINE  
HEARTS

Joseph Brook

London, UK



## Oral Abstracts (3) - Online

### Devices

IMPLANTABLE CARDIOVERTER DEFIBRILLATOR OUTCOMES IN PATIENTS WITH HYPERTROPHIC CARDIOMYOPATHY AT A TERTIARY CENTRE	Jessica Fox	London, UK
LONG-TERM ADVERSE SEQUELAE OF LEFT VENTRICULAR LEADS IN THE CONTEXT OF CARDIAC RESYNCHRONISATION THERAPY	Charlotte Hammond	Leeds, UK
CRT OPTIMISATION: A STUDY COMPARING NOMINAL VERSUS INDIVIDUALISED PROGRAMMING MODES	Lucy Broadhurst	Rotherham, UK
First UK Experience of Cardiac Contractility Modulation therapy in Patients With Heart Failure and Reduced Ejection Fraction	Rajdip Dulai	Eastbourne, UK
A RETROSPECTIVE STUDY COMPARING THE CLINICAL OUTCOMES OF LEFT VS RIGHT SIDED VENTRICULAR PACING IN PATIENTS UNDERGOING TRANSCATHETER AORTIC VALVE IMPLANTATION	Sunaina Asghar	Leeds, UK
PATIENT AND IMPLANT PROCEDURE CHARACTERISTICS OF THE MICRATM TRANSCATHETER PACEMAKER IN THE UNITED KINGDOM: EXPERIENCE FROM A REAL-WORLD REGISTRY	David Sharman	Northampton, UK
Mapping and ablation		
ASSESSMENT OF THE OPTIMAL BIPOLAR ENDOCARDIAL VOLTAGE CUTOFF FOR VT SUBSTRATE CHARACTERIZATION	James Elliott	London, UK



Procedural complications: lessons learned from over 5000 ablations at Barts Heart Centre	Edd Maclean	London, UK
Atrial signal clarity and rhythm specificity are critical when using artificial intelligence (AI) to distinguish atrial fibrillation (AF) from rhythms that mimic AF	Daniel Paris	Seattle, WA
Optimising co-registration of voltage and magnetic resonance imaging derived scar to guide ablation of ventricular arrhythmias in patients with cardiac implantable electronic devices	Michele Orini	London, UK
Impact of MultiPolAr mapping Catheters on long-Term outcomes for Ventricular Tachycardia ablation (IMPACT-VT study)	Rory Dowd	Birmingham, UK
Power Lesion Size Index and Oesophageal temperature alerts during Atrial Fibrillation ablation (PiLOT-AF study): a randomised study	Milena Leo	Oxford, UK



## Best Posters - Online

A CASE CONTROL STUDY COMPARING LONG TERM OUTCOMES OF DEVICES IMPLANTED VIA FEMORAL VS. CONVENTIONAL SUPERIOR ACCESS	Samuel Griffiths	London, UK
Cardiac resynchronisation therapy (CRT) and optimal drug therapy normalises lifespan in octogenarians.	Stephe Kamalathan	Wakefield, UK
ACUTE CONDUCTION RECOVERY POST CARDIAC SURGERY IN PATIENTS WITH HIGH GRADE ATRIOVENTRICULAR BLOCK	Ahmed Adlan	Liverpool, UK
IMPLANTABLE LOOP RECORDERS RARELY ALTER THE MANAGEMENT OF YOUNG PATIENTS WITH PRESYNCOPE OR SYNCOPE	Mihir Sanghvi	London, UK
TRANSVENOUS LEAD EXTRACTION IN A LOW VOLUME EXTRACTION CENTRE; IS CARDIAC SURGERY ON STANDBY NECESSARY?	Christina Peter	Nottingham, UK
REDUCED RADIATION EXPOSURE IN ACCESSORY PATHWAY ABLATIONS GUIDED BY ELECTRO-ANATOMICAL MAPPING: A SINGLE CENTRE EXPERIENCE	Szymon Musiol	Bristol, UK

## COVID-19





## COVID-19 - Online

Chair: Richard Schilling		London, UK	
COVID-19 & Arrhythmias	Daniela Aschieri	Piacenza, IT	
How to maintain an arrhythmia service in the middle of a virus pandemic	Janet McComb	Newcastle, UK	
What lessons have we learned from the COVID-19 pandemic and arrhythmia services in the UK	Alistair Slade	Cornwall, UK	
Telehealth - the new normal for EP in the UK	Angela Griffiths	Oxford, UK	
Same day discharges for EP - the time has come	Matthew Ginks	Oxford, UK	
Devices - the implications for remote monitoring for all?	Josh Cotton	London, UK	

## Industry Sessions

### Implicit Roundtable Discussion - Will Covid-19 experience transform Remote Monitoring of CIEDs adoption ?



Overview of best practices in France, UK and Germany



**Chair: Trudie Lobban MBE**

**Chipping Norton,  
UK**

Will Covid-19 experience transform Remote  
Monitoring of CIEDs adoption - Overview of best  
practices in France, UK and Germany

Andreas Rillig,  
Arnaud Rosier,  
Jay Wright

Hamburg, DE, Paris,  
FR, Liverpool, UK



# **LIVE - Biotronik Symposia - Lightening the Load with Remote Cardiac Monitoring: smart technology, smart evidence, and smart digital health for device patients - Online**



Smart technology: the impact of device battery & the necessity of simple remote monitoring for patients

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Smart evidence: reviewing the RCTs of Remote Cardiac Monitoring

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Smart digital health: integration EHR for paperless clinics

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## **Biotronik Symposia - Radiation Protection for the Physicians of 2020 & Beyond : Zero Gravity, a weightless solution. - Online**



Is the Electrophysiologist at risk of radiation in the lab?

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Eliminating back pain in the lab using with Zero Gravity

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Our Portsmouth experience 2020

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## **Spacelabs Symposia - Patch ECG Recording - Origins, Experience and Futures - Online**



Diagnosing Arrhythmias – History, recent trends and the next generation of Spacelabs products

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## MicroPort CRM cases & traces - Online



Pacemakers & ICDs troubleshooting : interpretation & programming	Sonia Thareau	Chester, UK
Arrhythmia discrimination in ICDs : a case study	Chris King	Chester, UK
CRTD case: from a non responder patient to a responder with the SonR system	Andrew Rapson	Chester, UK



## **Baylis Medical - HRC ZERO AF - Online**

ZERO Fluoro transseptal access Results from a pilot trial

Sabine Ernst

London, UK

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## Abbott - Online

CRT Optimisation - Current and Future Considerations for  
Maximising Outcomes in CRT Patients

David O'Donnell

Melbourne, AU

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## **Biotronik - Implantable Cardiac Monitor of 2020: P wave visibility AND 99% noise free? Review of BIOMONITOR III. - Online**

Chair - review of challenges in todays practice	Riyaz Kaba	London, UK
BIOCONCEPT evidence	Guy Furniss	Taunton, UK
Implant & closure recommendations	Riyaz Kaba	London, UK
BMIII in practice	Clare Atha	Bournemouth, UK
Summary & poll	Riyaz Kaba	London, UK



## Medtronic Symposia - Online

YOUR PARTNER IN CARE - PATIENT MANAGEMENT IN THE COVID-19 ERA AND BEYOND

Wythenshawe Pacemaker 'drive in' Express Clinic and St Bartholomew's Hospital utilising Medtronic App-based solutions in order to facilitate patient distancing in clinic and during CIED implant

Remote Patient Management For The Post-Covid-19 Era: Practical Experience from Greater Manchester

Fozia Ahmed

Manchester, UK

Future of Continuous Monitoring in a Remote Environment

Ashish Patwala

Stoke, UK

Relieving the Pressures on Healthcare Professionals Using FOCUSONTM

IMPROVING OUTCOMES FOR DEVICE AND HEART FAILURE PATIENTS

Controversies and Myths in CRT

Klaus Witte

Leeds, UK

Which Patient Outcomes are Most Meaningful In Heart Failure?

Martin Cowie

London, UK

Management of Heart Failure Patients Using a Device Based Risk Assessment Algorithm

Fozia Ahmed

Manchester, UK

Implementing Remote Device Therapies in the Modern Heart Failure Clinic

Wilfried Mullens

Genk, BE



Remote Management of Device HF Patients Using Risk Assessment Algorithms	Haran Burri	Geneva, CH
THE FUTURE IS HERE - MEET COBALT XT ICDS AND CRT-Ds		
Reducing Unnecessary Shocks with Device Features and New Smart Technologies	Archie Rao	Liverpool, UK
FROM HIS-BUNDLE TO LEADLESS PACING: THE FUTURE IS HERE		
His Bundle Pacing: Where Do We Stand?	Zachary Whinnett	London, UK
CARDIAC DIAGNOSTICS AND MONITORING		
Long term monitoring in Cryptogenic stroke - what's the evidence	Klaus Witte	Leeds, UK
DIFFERENTIATED INNOVATION IN CARDIAC ABLATION		
Advancements in RF ablation – the role of real-time temperature-controlled energy delivery	Atul Verma	Newmarket, CN



## Icentia - Online

Ambulatory ECG Monitoring A New Paradigm	Jack McCready	Brighton, UK
Maintaining an Arrhythmia Service in the midst of a pandemic	Matthew Crossley	Wycombe, UK



## AliveCor - Online

Early Detection of Cardiovascular Disease: A paradigm shift beyond the pandemic

Yassir Javaid

East Midlands, UK

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## Boston Scientific Presentations - Online

S-ICD or Transvenous ICD Therapy: The PRAETORIAN Trial.	Pier Lambiase	London, UK
S-ICD Screening Service at Barts Heart Centre	Christopher Monkhouse, Sooriyamohan Mohanakumar	London UK, London, UK
Use of local impedance drop in the search for durable PVI: Results and application of the LOCALIZE trial.	Moloy Das	Newcastle, UK
Using RHYTHMIA HDx SW4.0 to improve AF Workflow	Claire Martin	Cambridge, UK
The first use of the IntellaNav STABLEPOINT catheter in the UK: How it has enhanced my AF ablation practice	Dhiraj Gupta	Liverpool, UK
Turning Services back on again in 2020 with Cryoablation – Barts Heart Centre	Malcolm Finlay, Mark Earley, Natasha Bloodworth	London, UK, London, UK, London, UK



## Skylabs Symposia - Online

AF monitoring using PPG

Seongwook Han

Daegu, KR

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## **Acutus Medical Presentations - Online**

ACQMAP: THE FUTURE OF ELECTROPHYSIOLOGY DEFINED	Andrew Grace, Derrick Chou, Graydon Beatty	Cambridge, UK, Carlsbad, CA, Carlsbad, CA
ABLATING ATRIAL FIBRILLATION:BEYOND THE PULMONARY VEINS	Ewen Shepard, Tim Betts	Newcastle, UK, Oxford, UK

## **Live Sessions**

### **EP Traces Course - Online - Sunday 27 September**

Chairs	Gwilym Morris, Simon Modi	Manchester, UK, Liverpool, UK
Welcome, course objectives and 'How to approach the unknown tracing'		





## **Real World Cases - What would you do next? - Online - Monday 28 September**

Panel      Holly Daw, Paul Doherty, Sophie Rooker

London, UK, Solihull, UK, Manchester, UK

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## **Biotronik - Lightening the Load with Remote Cardiac Monitoring: smart technology, smart evidence, and smart digital health for device patients - Online - Monday 28 September**

16:00 - Chair	Parminder Chaggar	Cornwall, UK
16:05 - Smart technology: the impact of device battery & the necessity of simple remote monitoring for patients	Mark Gallagher	London, UK
16:20 - Smart evidence: reviewing the RCTs of Remote Cardiac Monitoring	Honey Thomas	Newcastle, UK
16:35 - Smart digital health: integration EHR for paperless clinics	Dougie Elder	Dundee, UK
15:55 - Summary & Poll		



## **A-A HRC Excellence in Practice Awards Night - Online - Monday 28 September**

19:00 - 20:30

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Hosted by:

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Awards presented:

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Team of the Year

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Charles Lobban Volunteer of the Year Award

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Arrhythmia Alliance Lifetime Achievement Award

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Outstanding Individual who has contributed to Arrhythmia Services

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Young Investigator Awards - Basic & Clinical Science

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BIG ANNOUNCEMENT TO CLOSE FOR HRC 2021

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## Live CRT Optimisation - Online - Tuesday 29 September

Speakers	Jen Middleton, Laura Quinn	Sheffield UK, Sheffield UK
Panel	Colin Cunningham, Cristiana Monteiro , Matthew Swift	Manchester, UK, Oxford, UK, Swindon, UK



## EGM Championship - Online - Wednesday 30 September

Panel	Honey Thomas, Paul Doherty, Stuart Allen	Newcastle, UK, Solihull, UK, Manchester, UK
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## Biosense Webster Live Symposia - Online - Wednesday 7th October

00:00 Transforming EP with Next  
Generation Ablation Technologies

**Chair: Mark O'Neill**

**London, UK**

Speakers

Andre Ng, Dhiraj  
Gupta, Richard  
Schilling

Leicester, UK, Liverpool,  
UK, London, UK